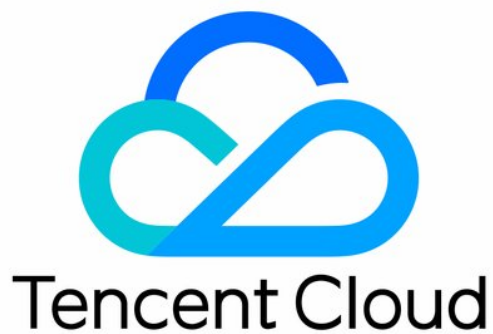


# 云数据库 SQL Server

## API 文档

## 产品文档



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# 文档目录

## API 文档

History

Introduction

API Category

Sales and fee related APIs

CreateDBInstances

CreateBasicDBInstances

CreateCloudDBInstances

DescribeRegions

DescribeZones

DescribeProductConfig

DescribeSpecSellStatus

InquiryPriceCreateDBInstances

DescribeOrders

DescribeInstanceByOrders

InquiryPriceUpgradeDBInstance

Instance Management related APIs

DescribeDBInstancesAttribute

DescribeDBInstances

DescribeFlowStatus

ModifyDBInstanceName

DescribeCollationTimeZone

ModifyDBInstanceProject

RestartDBInstance

UpgradeDBInstance

RecycleDBInstance

TerminateDBInstance

ModifyDReadable

Operation and maintenance management related APIs

DescribeMaintenanceSpan

Network management related APIs

ModifyDBInstanceNetwork

Account management related APIs

CreateAccount

ModifyAccountPrivilege

ModifyAccountRemark

ResetAccountPassword

DeleteAccount

DescribeAccounts

Data security encryption related APIs

ModifyInstanceEncryptAttributes

ModifyDBEncryptAttributes

Log management related APIs

DescribeSlowlogs

Parameter configuration related APIs

DescribeInstanceParams

DescribeInstanceParamRecords

ModifyInstanceParam

Extended Event APIs

DescribeXEvents

StartInstanceXEvent

Read only instance management related APIs

CreateReadOnlyDBInstances

CreateCloudReadOnlyDBInstances

Backup APIs

ModifyBackupStrategy

DescribeBackups

DescribeBackupFiles

CreateBackup

Rollback APIs

DescribeRestoreTimeRange

DescribeRollbackTime

RollbackInstance

RestoreInstance

Data migration (cold standby migration) related APIs

CreateBackupMigration

ModifyBackupMigration

StartBackupMigration

DescribeBackupMigration

DeleteBackupMigration

DescribeUploadBackupInfo

CreateIncrementalMigration

ModifyIncrementalMigration



- StartIncrementalMigration
- DescribeIncrementalMigration
- DescribeBackupCommand
- DescribeBackupUploadSize
- DeleteIncrementalMigration

#### Data migration (DTS old version) related APIs

- CreateMigration
- ModifyMigration
- RunMigration
- DeleteMigration
- DescribeMigrationDetail
- DescribeMigrations

#### SQL Server Integration Services (SSIS) related APIs

- CreateBusinessDBInstances
- OpenInterCommunication
- CreateBusinessIntelligenceFile
- DescribeBusinessIntelligenceFile
- DeleteBusinessIntelligenceFile
- CloseInterCommunication
- DescribeDBInstanceInter

#### Making API Requests

- Request Structure
- Common Params
- Signature v3
- Signature
- Responses

#### Database APIs

- CreateDB
- ModifyDBName
- ModifyDBRemark
- DescribeDBCharsets
- DeleteDB
- CloneDB
- ModifyDatabaseCDC
- ModifyDatabaseCT
- DescribeDBs
- DescribeDBsNormal
- ModifyDatabaseMdf

Data Types

Error Codes

# API 文档

## History

最近更新时间：2025-08-21 19:45:23

### Release 35

Release time: 2025-08-21 19:45:10

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyDBInstanceNetwork](#)
  - New input parameters:DrInstanceld

### Release 34

Release time: 2025-08-21 19:43:42

Release updates:

Improvement to existing documentation.

Modified APIs:

- [UpgradeDBInstance](#)
  - New input parameters:DrZones

New data structures:

- [DrZoneInfo](#)

### Release 33

Release time: 2025-08-21 19:42:18

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeCollationTimeZone](#)

## Release 32

Release time: 2025-08-21 19:40:08

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeSpecSellStatus](#)

New data structures:

- [Price](#)
- [SpecSellStatus](#)
- [ZoneStatus](#)

## Release 31

Release time: 2025-08-21 19:38:34

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateBasicDBInstances](#)
  - New input parameters:DiskEncryptFlag

## Release 30

Release time: 2025-08-07 19:08:06

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateCloudReadOnlyDBInstances](#)
  - New input parameters:DiskEncryptFlag

## Release 29

Release time: 2025-08-04 21:30:19

Release updates:

Improvement to existing documentation.

Modified data structures:

- [DBInstance](#)
  - New members:MultiSlaveZones

## Release 28

Release time: 2025-06-27 11:34:28

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateDBInstances](#)
  - New input parameters:MultiNodes, DrZones

## Release 27

Release time: 2025-04-17 17:02:15

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeMaintenanceSpan](#)

# Release 26

Release time: 2024-11-26 16:30:50

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateBasicDBInstances](#)
- [CreateReadOnlyDBInstances](#)
- [DescribeRestoreTimeRange](#)
- [ModifyDReadable](#)

Modified APIs:

- [DescribeDBInstances](#)
  - New input parameters: `PaginationType`
- [DescribeUploadBackupInfo](#)
  - New output parameters: `CosSecurityToken`
  - **Deprecate output parameters:** `XCosSecurityToken`
- [ModifyBackupStrategy](#)
  - New output parameters: `Code`
  - **Deprecate output parameters:** `Errno`
- [ModifyDBInstanceNetwork](#)
  - New input parameters: `DRNetwork`
- [RollbackInstance](#)
  - **Modified input parameters:** `DBs`

Modified data structures:

- [AccountCreateInfo](#)
  - New members: `IsCam`
  - **Modified members:** `Password`
- [AccountDetail](#)
  - New members: `IsCam`
- [DbNormalDetail](#)
  - **Modified members:** `CreateTime`
  - **Deprecate members:** `IsFulltextEnabled`
- [ResourceTag](#)

- **Modified members:** TagKey, TagValue

## Release 25

Release time: 2024-11-06 16:39:49

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeSlowlogs](#)
  - New output parameters: SlowLogs
  - **Deprecate output parameters:** Slowlogs

New data structures:

- [SlowLog](#)

## Release 24

Release time: 2024-07-08 20:30:52

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeDBInstancesAttribute](#)
  - New output parameters: SSLConfig, DrReadableInfo, OldVipList

New data structures:

- [DrReadableInfo](#)
- [OldVip](#)
- [SSLConfig](#)

## Release 23

Release time: 2023-09-18 11:37:43

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeInstanceByOrders](#)
- [ModifyDBEncryptAttributes](#)
- [ModifyInstanceEncryptAttributes](#)

Modified APIs:

- [CreateBackup](#)
  - New input parameters:StorageStrategy
- [DescribeDBInstancesAttribute](#)
  - New output parameters:TDEConfig
- [DescribeDBs](#)
  - New input parameters:Encryption

New data structures:

- [DBTDEEncrypt](#)
- [DeallInstance](#)
- [TDEConfigAttribute](#)

Modified data structures:

- [DBDetail](#)
  - New members:Encryption
- [DBInstance](#)
  - **Modified members:** Architecture, Style

## Release 22

Release time: 2023-06-27 09:46:53

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateCloudDBInstances](#)



- [CreateCloudReadOnlyDBInstances](#)

Modified APIs:

- [CreateBusinessDBInstances](#)
  - New output parameters:FlowId, InstanceIdSet

## Release 21

Release time: 2023-05-04 10:20:10

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeDBInstancesAttribute](#)
- [DescribeXEvents](#)
- [StartInstanceXEvent](#)

Modified APIs:

- [RestoreInstance](#)
  - New input parameters:Type, DBList

New data structures:

- [EventConfig](#)
- [Events](#)

Modified data structures:

- [DBInstance](#)
  - New members:Architecture, Style

## Release 20

Release time: 2023-03-01 16:52:44

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyBackupMigration](#)
  - New input parameters:DBRename

New data structures:

- [DBRenameRes](#)

Modified data structures:

- [AccountCreateInfo](#)
  - New members:AccountType
- [AccountDetail](#)
  - New members:AccountType
- [AccountPrivilege](#)
  - New members:AccountType
- [AccountPrivilegeModifyInfo](#)
  - New members:AccountType
- [DbNormalDetail](#)
  - New members:CreateTime
- [Migration](#)
  - New members:DBRename

## Release 19

Release time: 2022-12-22 16:19:50

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeAccounts](#)
  - New input parameters:Name, OrderBy, OrderByType
- [DescribeDBs](#)
  - New input parameters:Name, OrderByType

New data structures:

- [SlaveZones](#)

Modified data structures:

- [DBInstance](#)
  - New members: IsDrZone, SlaveZones

## Release 18

Release time: 2022-11-29 17:24:03

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyBackupStrategy](#)
  - New input parameters: RegularBackupEnable, RegularBackupSaveDays, RegularBackupStrategy, RegularBackupCounts, RegularBackupStartTime

## Release 17

Release time: 2022-10-08 10:28:01

Release updates:

Improvement to existing documentation.

New APIs:

- [CloseInterCommunication](#)
- [CreateBusinessDBInstances](#)
- [CreateBusinessIntelligenceFile](#)
- [DeleteBusinessIntelligenceFile](#)
- [DescribeBusinessIntelligenceFile](#)
- [DescribeDBInstanceInter](#)
- [OpenInterCommunication](#)

New data structures:

- [BusinessIntelligenceFile](#)

- [FileAction](#)
- [InterInstance](#)
- [InterInstanceFlow](#)

## Release 16

Release time: 2022-08-26 11:04:09

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateDBInstances](#)
  - New input parameters: Collation, TimeZone

## Release 15

Release time: 2022-08-16 16:30:47

Release updates:

Improvement to existing documentation.

Modified data structures:

- [DBInstance](#)
  - New members: Collation, TimeZone

## Release 14

Release time: 2022-08-01 17:03:46

Release updates:

Improvement to existing documentation.

New data structures:

- [CrossBackupAddr](#)
- [CrossRegionStatus](#)

Modified data structures:

- [Backup](#)
  - New members:Region, CrossBackupAddr, CrossBackupStatus
- [BackupFile](#)
  - New members:Region, CrossBackupAddr
- [DBInstance](#)
  - New members:CrossRegions, CrossBackupEnabled, CrossBackupSaveDays, DnsPodDomain, TgwWanVPort

## Release 13

Release time: 2022-06-06 15:24:21

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeBackupFiles](#)
  - New input parameters:OrderBy
- [DescribeBackups](#)
  - New input parameters:Type, BackupFormat
- [DescribeDBInstances](#)
  - New input parameters:InstanceType
- [ModifyBackupStrategy](#)
  - New input parameters:BackupCycle, BackupSaveDays
- [UpgradeDBInstance](#)
  - New input parameters:WaitSwitch

Modified data structures:

- [AccountCreateInfo](#)
  - New members:Authentication
- [AccountDetail](#)
  - New members:Authentication, Host
- [AccountPrivilegeModifyInfo](#)
  - New members:IsAdmin
- [Backup](#)
  - New members:BackupFormat

- [DBInstance](#)
  - New members: InstanceNote, BackupCycle, BackupCycleType, BackupSaveDays, InstanceType

## Release 12

Release time: 2022-01-26 14:29:49

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyDBInstanceNetwork](#)
  - New input parameters: Vip

## Release 11

Release time: 2021-10-13 10:27:05

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeBackupFiles](#)

Modified APIs:

- [DescribeBackups](#)
  - New input parameters: Group
- [DescribeDBInstances](#)
  - New input parameters: UidSet
- [ModifyBackupStrategy](#)
  - New input parameters: BackupModel
  - **Modified input parameters:** BackupType, BackupTime, BackupDay
- [RestoreInstance](#)
  - New input parameters: GroupId

New data structures:

- [BackupFile](#)

Modified data structures:

- [Backup](#)
  - New members:GroupId
- [DBInstance](#)
  - New members:BackupModel

## Release 10

Release time: 2021-08-11 11:25:51

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeDBsNormal](#)
- [DescribeInstanceParamRecords](#)
- [DescribeInstanceParams](#)
- [ModifyDatabaseCDC](#)
- [ModifyDatabaseCT](#)
- [ModifyDatabaseMdf](#)
- [ModifyInstanceParam](#)

New data structures:

- [DbNormalDetail](#)
- [ParamRecord](#)
- [Parameter](#)
- [ParameterDetail](#)

## Release 9

Release time: 2021-03-22 18:06:06

Release updates:

Improvement to existing documentation.

Modified data structures:

- [DBCCreateInfo](#)
  - **Modified members:** Charset, Accounts, Remark

## Release 8

Release time: 2021-03-18 10:48:08

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateBackupMigration](#)
- [CreateIncrementalMigration](#)
- [DeleteBackupMigration](#)
- [DeleteIncrementalMigration](#)
- [DescribeBackupCommand](#)
- [DescribeBackupMigration](#)
- [DescribeBackupUploadSize](#)
- [DescribeDBCharsets](#)
- [DescribeIncrementalMigration](#)
- [DescribeUploadBackupInfo](#)
- [ModifyBackupMigration](#)
- [ModifyIncrementalMigration](#)
- [StartBackupMigration](#)
- [StartIncrementalMigration](#)

New data structures:

- [CosUploadBackupFile](#)
- [Migration](#)
- [MigrationAction](#)
- [MigrationDetail](#)
- [MigrationStep](#)

## Release 7



Release time: 2021-02-22 15:40:09

Release updates:

Improvement to existing documentation.

New APIs:

- [CloneDB](#)

## Release 6

Release time: 2021-02-05 14:17:07

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyDBInstanceNetwork](#)

Modified APIs:

- [CreateDBInstances](#)
  - New input parameters:ResourceTags
- [DescribeBackups](#)
  - New input parameters:DatabaseName
- [DescribeDBInstances](#)
  - New input parameters:VipSet, InstanceNameSet, VersionSet, Zone, TagKeys, SearchKey
- [UpgradeDBInstance](#)
  - New input parameters:DBVersion, HAType, MultiZones
  - **Modified input parameters:** Memory, Storage

New data structures:

- [ResourceTag](#)

Modified data structures:

- [DBInstance](#)
  - New members:ResourceTags

## Release 5

Release time: 2020-12-07 19:22:14

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeProductConfig](#)
  - New input parameters: InstanceType

Modified data structures:

- [SpecInfo](#)
  - New members: InstanceType, MultiZonesStatus

## Release 4

Release time: 2020-11-24 16:06:15

Release updates:

Improvement to existing documentation.

New APIs:

- [RecycleDBInstance](#)

Modified data structures:

- [AccountDetail](#)
  - New members: IsAdmin

## Release 3

Release time: 2020-09-25 11:38:54

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateBackup](#)
  - New input parameters:BackupName
- [CreateMigration](#)
  - New input parameters:RenameRestore
- [DescribeBackups](#)
  - New input parameters:BackupName, Strategy, BackupWay, BackupId
- [RestoreInstance](#)
  - New input parameters:TargetInstanceId, RenameRestore
- [RollbackInstance](#)
  - New input parameters:TargetInstanceId, RenameRestore

New data structures:

- [RenameRestoreDatabase](#)

## Release 2

Release time: 2020-08-13 23:33:25

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyBackupStrategy](#)

Modified data structures:

- [Backup](#)
  - New members:BackupName

## Existing Release

Release time: 2020-07-30 20:40:31

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [CreateAccount](#)
- [CreateBackup](#)
- [CreateDB](#)
- [CreateDBInstances](#)
- [CreateMigration](#)
- [DeleteAccount](#)
- [DeleteDB](#)
- [DeleteMigration](#)
- [DescribeAccounts](#)
- [DescribeBackups](#)
- [DescribeDBInstances](#)
- [DescribeDBs](#)
- [DescribeFlowStatus](#)
- [DescribeMigrationDetail](#)
- [DescribeMigrations](#)
- [DescribeOrders](#)
- [DescribeProductConfig](#)
- [DescribeRegions](#)
- [DescribeRollbackTime](#)
- [DescribeSlowlogs](#)
- [DescribeZones](#)
- [InquiryPriceCreateDBInstances](#)
- [InquiryPriceUpgradeDBInstance](#)
- [ModifyAccountPrivilege](#)
- [ModifyAccountRemark](#)
- [ModifyDBInstanceName](#)
- [ModifyDBInstanceProject](#)
- [ModifyDBName](#)
- [ModifyDBRemark](#)
- [ModifyMigration](#)
- [ResetAccountPassword](#)
- [RestartDBInstance](#)
- [RestoreInstance](#)
- [RollbackInstance](#)
- [RunMigration](#)
- [TerminateDBInstance](#)
- [UpgradeDBInstance](#)

Existing data structures:

- [AccountCreateInfo](#)
- [AccountDetail](#)
- [AccountPassword](#)
- [AccountPrivilege](#)
- [AccountPrivilegeModifyInfo](#)
- [AccountRemark](#)
- [Backup](#)
- [DBCreateInfo](#)
- [DBDetail](#)
- [DBInstance](#)
- [DBPrivilege](#)
- [DBPrivilegeModifyInfo](#)
- [DBRemark](#)
- [DbRollbackTimeInfo](#)
- [DealInfo](#)
- [InstanceDBDetail](#)
- [MigrateDB](#)
- [MigrateDetail](#)
- [MigrateSource](#)
- [MigrateTarget](#)
- [MigrateTask](#)
- [RegionInfo](#)
- [SlowlogInfo](#)
- [SpecInfo](#)
- [ZoneInfo](#)

# Introduction

最近更新时间：2024-07-08 20:20:19

SQL Server is a relational database management system developed by Microsoft. Its high scalability and performance makes it easy for you to query, search, synchronize, and analyze data. As of today, multiple SQL Server versions have been released, each with their own unique features.

## Note:

All SQL Server APIs in this section have been upgraded to API 3.0. Future SQL Server features will also be added here. We recommend using API 3.0.

# API Category

最近更新时间：2025-08-21 19:46:06

## Sales and fee related APIs

| API Name                                      | Feature                                          | Frequency Limit (maximum requests per second) |
|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| <a href="#">CreateDBInstances</a>             | Creates high-availability instances (local disk) | 20                                            |
| <a href="#">CreateBasicDBInstances</a>        | Creates basic edition instances (cloud disk)     | 20                                            |
| <a href="#">CreateCloudDBInstances</a>        | Creates high-availability instances (cloud disk) | 20                                            |
| <a href="#">DescribeRegions</a>               | Queries purchasable regions                      | 20                                            |
| <a href="#">DescribeZones</a>                 | Queries purchasable AZs                          | 20                                            |
| <a href="#">DescribeProductConfig</a>         | Queries purchasable specification configuration  | 20                                            |
| <a href="#">DescribeSpecSellStatus</a>        | Query the status information on specifications   | 20                                            |
| <a href="#">InquiryPriceCreateDBInstances</a> | Queries the price of requested instances         | 20                                            |
| <a href="#">DescribeOrders</a>                | Queries order information                        | 10                                            |
| <a href="#">DescribeInstanceByOrders</a>      | Queries the instance ID by the order number      | 20                                            |
| <a href="#">InquiryPriceUpgradeDBInstance</a> | Queries upgrade price of instance                | 20                                            |

## Instance Management APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|----------|---------|-----------------------------------------------|
|----------|---------|-----------------------------------------------|

|                                              |                                                              |    |
|----------------------------------------------|--------------------------------------------------------------|----|
| <a href="#">DescribeDBInstancesAttribute</a> | Queries the attributes of an instance                        | 20 |
| <a href="#">DescribeFlowStatus</a>           | Queries flow status                                          | 20 |
| <a href="#">ModifyDBInstanceName</a>         | Renames instance                                             | 20 |
| <a href="#">RestartDBInstance</a>            | Restarts instance                                            | 20 |
| <a href="#">RecycleDBInstance</a>            | Returns a deactivated SQL Server instance                    | 20 |
| <a href="#">ModifyDReadable</a>              | Enables\Disables the read-only feature of the replica server | 20 |

## Instance Management related APIs

| API Name                                  | Feature                                                            | Frequency Limit (maximum requests per second) |
|-------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|
| <a href="#">DescribeDBInstances</a>       | Queries the list of instances                                      | 70                                            |
| <a href="#">DescribeCollationTimeZone</a> | Querying the Character Set and Time Zone Supported by the Instance | 20                                            |
| <a href="#">ModifyDBInstanceProject</a>   | Modifies project to which database instance belongs                | 20                                            |
| <a href="#">UpgradeDBInstance</a>         | Upgrades instance                                                  | 20                                            |
| <a href="#">TerminateDBInstance</a>       | Isolates an instance                                               | 20                                            |

## Operation and maintenance management related APIs

| API Name                                | Feature                                           | Frequency Limit (maximum requests per second) |
|-----------------------------------------|---------------------------------------------------|-----------------------------------------------|
| <a href="#">DescribeMaintenanceSpan</a> | Query the maintenance time window of the instance | 20                                            |

## Network management related APIs



| API Name                                | Feature                  | Frequency Limit (maximum requests per second) |
|-----------------------------------------|--------------------------|-----------------------------------------------|
| <a href="#">ModifyDBInstanceNetwork</a> | Changes instance network | 20                                            |

## Account management related APIs

| API Name                               | Feature                               | Frequency Limit (maximum requests per second) |
|----------------------------------------|---------------------------------------|-----------------------------------------------|
| <a href="#">CreateAccount</a>          | Creates instance account              | 20                                            |
| <a href="#">ModifyAccountPrivilege</a> | Modifies instance account permissions | 20                                            |
| <a href="#">ModifyAccountRemark</a>    | Modifies account remarks              | 20                                            |
| <a href="#">ResetAccountPassword</a>   | Resets account password               | 20                                            |
| <a href="#">DeleteAccount</a>          | Deletes instance account              | 20                                            |
| <a href="#">DescribeAccounts</a>       | Pulls list of instance accounts       | 20                                            |

## Database APIs

| API Name                           | Feature                                       | Frequency Limit (maximum requests per second) |
|------------------------------------|-----------------------------------------------|-----------------------------------------------|
| <a href="#">CreateDB</a>           | Creates database                              | 20                                            |
| <a href="#">ModifyDBName</a>       | Rename database                               | 20                                            |
| <a href="#">ModifyDBRemark</a>     | Modifies database remarks                     | 20                                            |
| <a href="#">DescribeDBCharsets</a> | Queries the supported database character sets | 20                                            |
| <a href="#">DeleteDB</a>           | Drops database                                | 20                                            |
| <a href="#">CloneDB</a>            | Clones databases                              | 20                                            |
| <a href="#">ModifyDatabaseCDC</a>  | Enables/Disables CDC                          | 20                                            |

|                                   |                                 |    |
|-----------------------------------|---------------------------------|----|
| <a href="#">ModifyDatabaseCT</a>  | Enables/Disables CT             | 20 |
| <a href="#">DescribeDBs</a>       | Queries the list of databases   | 20 |
| <a href="#">DescribeDBsNormal</a> | Queries database configurations | 20 |
| <a href="#">ModifyDatabaseMdf</a> | Shrinks database MDF files      | 20 |

## Data security encryption related APIs

| API Name                                        | Feature                               | Frequency Limit (maximum requests per second) |
|-------------------------------------------------|---------------------------------------|-----------------------------------------------|
| <a href="#">ModifyInstanceEncryptAttributes</a> | Enables TDE of an instance            | 20                                            |
| <a href="#">ModifyDBEncryptAttributes</a>       | Enables or disables TDE of a database | 20                                            |

## Parameter configuration related APIs

| API Name                                     | Feature                                                | Frequency Limit (maximum requests per second) |
|----------------------------------------------|--------------------------------------------------------|-----------------------------------------------|
| <a href="#">DescribeInstanceParams</a>       | Queries the configurable parameter list of an instance | 20                                            |
| <a href="#">DescribeInstanceParamRecords</a> | Queries instance parameter modification records        | 20                                            |
| <a href="#">ModifyInstanceParam</a>          | Modifies instance parameters                           | 20                                            |

## Log management related APIs

| API Name                         | Feature                                  | Frequency Limit (maximum requests per second) |
|----------------------------------|------------------------------------------|-----------------------------------------------|
| <a href="#">DescribeSlowlogs</a> | Gets file information of slow query logs | 20                                            |

## Extended Event APIs

| API Name                            | Feature                             | Frequency Limit (maximum requests per second) |
|-------------------------------------|-------------------------------------|-----------------------------------------------|
| <a href="#">DescribeXEvents</a>     | Queries the list of extended events | 20                                            |
| <a href="#">StartInstanceXEvent</a> | Starts and stops an extension event | 20                                            |

## Read only instance management related APIs

| API Name                                       | Feature                                  | Frequency Limit (maximum requests per second) |
|------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <a href="#">CreateReadOnlyDBInstances</a>      | Creates read-only instances (local disk) | 20                                            |
| <a href="#">CreateCloudReadOnlyDBInstances</a> | Creates read-only instances (cloud disk) | 20                                            |

## Rollback APIs

| API Name                                 | Feature                                                     | Frequency Limit (maximum requests per second) |
|------------------------------------------|-------------------------------------------------------------|-----------------------------------------------|
| <a href="#">DescribeRestoreTimeRange</a> | Queries the time range available for rollback by time point | 20                                            |
| <a href="#">DescribeRollbackTime</a>     | Queries time range available for instance rollback          | 20                                            |
| <a href="#">RollbackInstance</a>         | Rolls back the instance by time point                       | 20                                            |
| <a href="#">RestoreInstance</a>          | Rolls back the database by backup set                       | 20                                            |

## Backup and Restoration APIs

| API Name                             | Feature                                     | Frequency Limit (maximum requests per second) |
|--------------------------------------|---------------------------------------------|-----------------------------------------------|
| <a href="#">ModifyBackupStrategy</a> | Modifies backup policy                      | 20                                            |
| <a href="#">DescribeBackups</a>      | Queries list of backups                     | 60                                            |
| <a href="#">DescribeBackupFiles</a>  | Queries the details of an unarchived backup | 20                                            |
| <a href="#">CreateBackup</a>         | Creates backup                              | 20                                            |

## Data migration (cold standby migration) related APIs

| API Name                                     | Feature                                   | Frequency Limit (maximum requests per second) |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------|
| <a href="#">CreateBackupMigration</a>        | Creates backup import tasks               | 20                                            |
| <a href="#">ModifyBackupMigration</a>        | Modifies backup import tasks              | 20                                            |
| <a href="#">StartBackupMigration</a>         | Starts backup import tasks                | 20                                            |
| <a href="#">DescribeBackupMigration</a>      | Queries backup import tasks               | 20                                            |
| <a href="#">DeleteBackupMigration</a>        | Deletes backup import tasks               | 20                                            |
| <a href="#">DescribeUploadBackupInfo</a>     | Queries backup upload permissions.        | 20                                            |
| <a href="#">CreateIncrementalMigration</a>   | Creates incremental backup import tasks   | 20                                            |
| <a href="#">ModifyIncrementalMigration</a>   | Modifies incremental backup import tasks. | 20                                            |
| <a href="#">StartIncrementalMigration</a>    | Starts incremental backup import tasks    | 20                                            |
| <a href="#">DescribeIncrementalMigration</a> | Queries incremental backup import tasks   | 20                                            |
| <a href="#">DescribeBackupCommand</a>        | Queries the commands of creating backups  | 20                                            |
| <a href="#">DescribeBackupUploadSize</a>     | Queries the size of uploaded              | 20                                            |

|                                            |                                         |    |
|--------------------------------------------|-----------------------------------------|----|
|                                            | backup files                            |    |
| <a href="#">DeleteIncrementalMigration</a> | Deletes incremental backup import tasks | 20 |

## Data migration (DTS old version) related APIs

| API Name                                | Feature                             | Frequency Limit (maximum requests per second) |
|-----------------------------------------|-------------------------------------|-----------------------------------------------|
| <a href="#">CreateMigration</a>         | Creates migration task              | 20                                            |
| <a href="#">ModifyMigration</a>         | Modifies migration task             | 20                                            |
| <a href="#">RunMigration</a>            | Runs migration task                 | 20                                            |
| <a href="#">DeleteMigration</a>         | Deletes migration task              | 20                                            |
| <a href="#">DescribeMigrationDetail</a> | Queries migration task details      | 20                                            |
| <a href="#">DescribeMigrations</a>      | Queries the list of migration tasks | 20                                            |

## Other APIs

| API Name                                         | Feature                                                      | Frequency Limit (maximum requests per second) |
|--------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------|
| <a href="#">CreateBusinessDBInstances</a>        | Creates business intelligence service instances (cloud disk) | 20                                            |
| <a href="#">OpenInterCommunication</a>           | Enables instance interconnection                             | 20                                            |
| <a href="#">CreateBusinessIntelligenceFile</a>   | Creates a business intelligence service file                 | 20                                            |
| <a href="#">DescribeBusinessIntelligenceFile</a> | Queries the files required by business intelligence service  | 20                                            |
| <a href="#">DeleteBusinessIntelligenceFile</a>   | Deletes a business intelligence service file                 | 20                                            |
|                                                  |                                                              |                                               |

|                                         |                                   |    |
|-----------------------------------------|-----------------------------------|----|
| <a href="#">CloseInterCommunication</a> | Disables instance interconnection | 20 |
|-----------------------------------------|-----------------------------------|----|

## SQL Server Integration Services (SSIS) related APIs

| API Name                                | Feature                                                 | Frequency Limit (maximum requests per second) |
|-----------------------------------------|---------------------------------------------------------|-----------------------------------------------|
| <a href="#">DescribeDBInstanceInter</a> | Queries the information of the interconnected instances | 30                                            |

# Sales and fee related APIs

## CreateDBInstances

最近更新时间：2025-08-22 16:36:26

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create high-availability instances (local disk).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: CreateDBInstances.                                                                                                                                                                                                                                                                                                                       |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
|                |          |        |                                                                                                                                                                                                                                                                                                                                                                                                       |

|                    |     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Zone               | Yes | String          | Instance AZ, such as ap-guangzhou-1 (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the <code>DescribeZones</code> API.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Memory             | Yes | Integer         | Instance memory size in GB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Storage            | Yes | Integer         | Instance storage capacity in GB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| InstanceChargeType | No  | String          | Billing mode. Valid value: POSTPAID (pay-as-you-go).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ProjectId          | No  | Integer         | Project ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| GoodsNum           | No  | Integer         | Number of instances purchased this time. Default value: 1. Maximum value: 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SubnetId           | No  | String          | VPC subnet ID in the format of subnet-bdoe83fa. <code>SubnetId</code> and <code>VpcId</code> should be set or ignored simultaneously.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VpcId              | No  | String          | VPC ID in the format of vpc-dsp338hz. <code>SubnetId</code> and <code>VpcId</code> should be set or ignored simultaneously.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Period             | No  | Integer         | Length of purchase of instance. The default value is 1, indicating one month. The value cannot exceed 48.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AutoVoucher        | No  | Integer         | Whether to automatically use voucher. 0: no, 1: yes. Default value: no.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| VoucherIds.N       | No  | Array of String | Array of voucher IDs (currently, only one voucher can be used per order).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DBVersion          | No  | String          | SQL Server version. Valid values: <code>2008R2</code> (SQL Server 2008 R2 Enterprise), <code>2012SP3</code> (SQL Server 2012 Enterprise), <code>201202</code> (SQL Server 2012 Standard), <code>2014SP2</code> (SQL Server 2014 Enterprise), <code>201402</code> (SQL Server 2014 Standard), <code>2016SP1</code> (SQL Server 2016 Enterprise), <code>201602</code> (SQL Server 2016 Standard), <code>2017</code> (SQL Server 2017 Enterprise), <code>201702</code> (SQL Server 2017 Standard), <code>2019</code> (SQL Server 2019 Enterprise), <code>201902</code> (SQL Server 2019 Standard). Default value: <code>2008R2</code> . The available version varies by region, and you can pull the |



|                     |    |                                      |                                                                                                                                                                                                                                                                       |
|---------------------|----|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |    |                                      | version information by calling the <code>DescribeProductConfig</code> API.                                                                                                                                                                                            |
| AutoRenewFlag       | No | Integer                              | Auto-renewal flag. 0: normal renewal, 1: auto-renewal. Default value: 1.                                                                                                                                                                                              |
| SecurityGroupList.N | No | Array of String                      | Security group list, which contains security group IDs in the format of sg-xxx.                                                                                                                                                                                       |
| Weekly.N            | No | Array of Integer                     | Configuration of the maintenance window, which specifies the day of the week when maintenance can be performed. Valid values: 1 (Monday), 2 (Tuesday), 3 (Wednesday), 4 (Thursday), 5 (Friday), 6 (Saturday), 7 (Sunday).                                             |
| StartTime           | No | String                               | Configuration of the maintenance window, which specifies the start time of daily maintenance.                                                                                                                                                                         |
| Span                | No | Integer                              | Configuration of the maintenance window, which specifies the maintenance duration in hours.                                                                                                                                                                           |
| HAType              | No | String                               | The type of purchased high-availability instance. Valid values: DUAL (dual-server high availability), CLUSTER (cluster). Default value: DUAL.                                                                                                                         |
| MultiZones          | No | Boolean                              | Whether to deploy across availability zones. Default value: false.                                                                                                                                                                                                    |
| ResourceTags.N      | No | Array of <a href="#">ResourceTag</a> | Tags associated with the instances to be created.                                                                                                                                                                                                                     |
| Collation           | No | String                               | Collation of system character sets. Default value: <code>Chinese_PRC_CI_AS</code> .                                                                                                                                                                                   |
| TimeZone            | No | String                               | System time zone. Default value: <code>China Standard Time</code> .                                                                                                                                                                                                   |
| MultiNodes          | No | Boolean                              | Whether it is a multi-node architecture instance. Default value: <code>false</code> . If MultiNodes = true, the value of the MultiZones parameter must be true.                                                                                                       |
| DrZones.N           | No | Array of String                      | The zone in which the standby node is available. Default is empty. When MultiNodes = true, the availability zones of the primary and standby nodes cannot all be the same. The minimum number of availability zones for the standby nodes is 2, and the maximum is 5. |

## 3. Output Parameters

| Parameter Name | Type            | Description                                                                                                                                                                                                                             |
|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealName       | String          | Order name.                                                                                                                                                                                                                             |
| DealNames      | Array of String | Order name array.                                                                                                                                                                                                                       |
| RequestId      | String          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Creating an instance

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateDBInstances
<Common request parameters>

{
  "Collation": "Chinese_PRC_CI_AS",
  "TimeZone": "China Standard Time",
  "Storage": 100,
  "Zone": "ap-guangzhou-1",
  "Memory": "2"
}
```

#### Output Example

```
{
  "Response": {
    "DealName": "20200318114212",
    "DealNames": [
      "20200318114212"
    ],

```

```
"RequestId": "2b6f7e2a-e909-4753-84b7-0db3e6099877"
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                        | Description                    |
|-----------------------------------|--------------------------------|
| FailedOperation.CreateOrderFailed | Failed to create order.        |
| FailedOperation.DBError           | Database error.                |
| FailedOperation.GetVpcFailed      | Failed to get VPC information. |
| InternalError.DBError             | Database error                 |
| InternalError.UnknownError        | Unknown error.                 |
| InvalidParameter.InputIllegal     | Input error.                   |
|                                   |                                |

|                                              |                                                         |
|----------------------------------------------|---------------------------------------------------------|
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion. |
| InvalidParameter.PayOrderFailed              | Failed to make order payment.                           |
| InvalidParameterValue.IllegalRegion          | Invalid region.                                         |
| InvalidParameterValue.IllegalSpec            | Incorrect instance specification information.           |
| InvalidParameterValue.IllegalZone            | Incorrect AZ ID.                                        |
| InvalidParameterValue.SecurityGroupIdIllegal | Invalid security group ID.                              |
| ResourceNotFound.VpcNotExist                 | The VPC does not exist.                                 |
| ResourceUnavailable.VpcNotExist              | VPC not found.                                          |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                               |

# CreateBasicDBInstances

最近更新时间：2025-08-21 19:38:47

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create basic edition instances (cloud disk).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: CreateBasicDBInstances.                                                                                                                                                                                                                                                                                                                  |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| Zone           | Yes      | String | Instance AZ, such as ap-guangzhou-1 (Guangzhou Zone 1). Purchasable AZs for an                                                                                                                                                                                                                                                                                                                        |

|                    |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|-----|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |     |         | instance can be obtained through the <code>DescribeZones</code> API.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cpu                | Yes | Integer | Number of CPU cores.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Memory             | Yes | Integer | Instance memory size in GB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Storage            | Yes | Integer | Instance storage capacity in GB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SubnetId           | Yes | String  | VPC subnet ID in the format of subnet-bdoe83fa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VpcId              | Yes | String  | VPC ID in the format of vpc-dsp338hz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MachineType        | Yes | String  | Host type of purchased instances.<br>CLOUD_PREMIUM: Premium Disk for virtual machines; CLOUD_SSD: Cloud SSD for virtual machines; CLOUD_HSSD: Enhanced SSD for virtual machines; CLOUD_BSSD: Balanced SSD for virtual machines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| InstanceChargeType | No  | String  | Billing mode. Valid value: POSTPAID (pay-as-you-go).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ProjectId          | No  | Integer | Project ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| GoodsNum           | No  | Integer | Number of instances purchased this time. Default value: 1. Maximum value: 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DBVersion          | No  | String  | SQL Server version. Valid values: <code>2008R2</code> (SQL Server 2008 R2 Enterprise), <code>2012SP3</code> (SQL Server 2012 Enterprise), <code>201202</code> (SQL Server 2012 Standard), <code>2014SP2</code> (SQL Server 2014 Enterprise), <code>201402</code> (SQL Server 2014 Standard), <code>2016SP1</code> (SQL Server 2016 Enterprise), <code>201602</code> (SQL Server 2016 Standard), <code>2017</code> (SQL Server 2017 Enterprise), <code>201702</code> (SQL Server 2017 Standard), <code>2019</code> (SQL Server 2019 Enterprise), <code>201902</code> (SQL Server 2019 Standard). Default value: <code>2008R2</code> . The available version varies by region, and you can pull the version information by calling the <code>DescribeProductConfig</code> API. |
| Period             | No  | Integer | Length of purchase of instance. The default value is 1, indicating one month. The value cannot exceed 48.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                    |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                     |    |                                      |                                                                                                                                                                                                                           |
|---------------------|----|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SecurityGroupList.N | No | Array of String                      | Security group list, which contains security group IDs in the format of sg-xxx.                                                                                                                                           |
| AutoRenewFlag       | No | Integer                              | Auto-renewal flag. 0: normal renewal, 1: auto-renewal. Default value: 1.                                                                                                                                                  |
| AutoVoucher         | No | Integer                              | Whether to automatically use voucher. 0: no, 1: yes. Default value: no.                                                                                                                                                   |
| VoucherIds.N        | No | Array of String                      | Array of voucher IDs (currently, only one voucher can be used per order).                                                                                                                                                 |
| Weekly.N            | No | Array of Integer                     | Configuration of the maintenance window, which specifies the day of the week when maintenance can be performed. Valid values: 1 (Monday), 2 (Tuesday), 3 (Wednesday), 4 (Thursday), 5 (Friday), 6 (Saturday), 7 (Sunday). |
| StartTime           | No | String                               | Configuration of the maintenance window, which specifies the start time of daily maintenance.                                                                                                                             |
| Span                | No | Integer                              | Configuration of the maintenance window, which specifies the maintenance duration in hours.                                                                                                                               |
| ResourceTags.N      | No | Array of <a href="#">ResourceTag</a> | Tags associated with the instances to be created.                                                                                                                                                                         |
| Collation           | No | String                               | Collation of system character sets. Default value: <code>Chinese_PRC_CI_AS</code> .                                                                                                                                       |
| TimeZone            | No | String                               | System time zone. Default value: <code>China Standard Time</code> .                                                                                                                                                       |
| DiskEncryptFlag     | No | Integer                              | Disk encryption identifier, 0-unencrypted, 1-encrypted.                                                                                                                                                                   |

### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                 |
|----------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealName       | String | Order name.                                                                                                                                                 |
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request |

will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Create a Basic Edition instance

Create a Basic Edition instance

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateBasicDBInstances
<Common request parameters>

{
  "VpcId": "vpc-huew581t",
  "AutoRenewFlag": "0",
  "Zone": "ap-guangzhou-3",
  "GoodsNum": "1",
  "TimeZone": "China Standard Time",
  "DBVersion": "2008R2",
  "Storage": "20",
  "Period": "1",
  "MachineType": "CLOUD_PREMIUM",
  "Collation": "Chinese_PRC_CI_AS",
  "InstanceChargeType": "PREPAID",
  "StartTime": "00:00",
  "Memory": "2",
  "SubnetId": "subnet-pudyecyk",
  "Span": "6",
  "Cpu": "1",
  "Weekly": [
    "1"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "DealName": "20200713383000001111250",
    "RequestId": "d84adfca-3ff0-46d2-b400-b5527446df72"
  }
}
```



```
}  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                          | Description                                  |
|-------------------------------------|----------------------------------------------|
| FailedOperation.CreateOrderFailed   | Failed to create order.                      |
| FailedOperation.DBError             | Database error.                              |
| FailedOperation.GetVpcFailed        | Failed to get VPC information.               |
| InternalServerError.DBError         | Database error                               |
| InternalServerError.VPCErr          | VPC error                                    |
| InvalidParameter.InputIllegal       | Input error.                                 |
| InvalidParameter.ParamsAssertFailed | An error occurred while converting parameter |

|                                              |                                               |
|----------------------------------------------|-----------------------------------------------|
|                                              | assertion.                                    |
| InvalidParameter.PayOrderFailed              | Failed to make order payment.                 |
| InvalidParameterValue.IllegalSpec            | Incorrect instance specification information. |
| InvalidParameterValue.ParameterTypeError     | Incorrect parameter type.                     |
| InvalidParameterValue.SecurityGroupIdIllegal | Invalid security group ID.                    |
| ResourceNotFound.VpcNotExist                 | The VPC does not exist.                       |
| ResourceUnavailable.VpcNotExist              | VPC not found.                                |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                     |

# CreateCloudDBInstances

最近更新时间：2025-08-22 16:36:27

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create high-availability instances (cloud disk).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                      |
|----------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: CreateCloudDBInstances.                                                                             |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                         |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                   |
| Zone           | Yes      | String  | Instance AZ, such as <code>ap-guangzhou-1</code> (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the <code>DescribeZones</code> API. |
| Memory         | Yes      | Integer | Instance memory size in GB                                                                                                                                       |
| Storage        | Yes      | Integer | Instance disk size in GB                                                                                                                                         |
|                |          |         |                                                                                                                                                                  |

|                    |     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cpu                | Yes | Integer         | Number of CPU cores                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MachineType        | Yes | String          | The host type of the purchased instance. Valid values: <code>CLOUD_HSSD</code> (virtual machine with enhanced SSD), <code>CLOUD_TSSD</code> (virtual machine with ultra SSD), <code>CLOUD_BSSD</code> (virtual machine with balanced SSD).                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| InstanceChargeType | No  | String          | Billing mode. Valid values: <code>PREPAID</code> (monthly subscription), <code>POSTPAID</code> (pay-as-you-go).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ProjectId          | No  | Integer         | Project ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| GoodsNum           | No  | Integer         | Number of instances purchased this time. Default value: <code>1</code> . Maximum value: <code>10</code> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SubnetId           | No  | String          | VPC subnet ID in the format of <code>subnet-bdoe83fa</code> . Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VpcId              | No  | String          | VPC ID in the format of <code>vpc-dsp338hz</code> . Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Period             | No  | Integer         | The purchase period of an instance. Default value: <code>1</code> (one month). Maximum value: <code>48</code> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| AutoVoucher        | No  | Integer         | Whether to automatically use voucher. Valid values: <code>0</code> (no, default), <code>1</code> (yes).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| VoucherIds.N       | No  | Array of String | Array of voucher IDs (currently, only one voucher can be used per order)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DBVersion          | No  | String          | SQL Server version. Valid values: <code>2008R2</code> (SQL Server 2008 R2 Enterprise), <code>2012SP3</code> (SQL Server 2012 Enterprise), <code>201202</code> (SQL Server 2012 Standard), <code>2014SP2</code> (SQL Server 2014 Enterprise), <code>201402</code> (SQL Server 2014 Standard), <code>2016SP1</code> (SQL Server 2016 Enterprise), <code>201602</code> (SQL Server 2016 Standard), <code>2017</code> (SQL Server 2017 Enterprise), <code>201702</code> (SQL Server 2017 Standard), <code>2019</code> (SQL Server 2019 Enterprise), <code>201902</code> (SQL Server 2019 Standard). Default value: <code>2008R2</code> . The available version varies by region, and you can pull the |

|                     |    |                                      |                                                                                                                                                                                                                                                                                                                      |
|---------------------|----|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |    |                                      | version information through the <code>DescribeProductConfig</code> API.                                                                                                                                                                                                                                              |
| AutoRenewFlag       | No | Integer                              | Auto-renewal flag, which takes effect only when purchasing a monthly subscribed instance. Valid values: <code>0</code> (auto-renewal disabled), <code>1</code> (auto-renewal enabled). Default value: <code>0</code> .                                                                                               |
| SecurityGroupList.N | No | Array of String                      | Security group list, which contains security group IDs in the format of <code>sg-xxx</code> .                                                                                                                                                                                                                        |
| Weekly.N            | No | Array of Integer                     | Configuration of the maintenance window, which specifies the day of the week when maintenance can be performed. Valid values: <code>1</code> (Monday), <code>2</code> (Tuesday), <code>3</code> (Wednesday), <code>4</code> (Thursday), <code>5</code> (Friday), <code>6</code> (Saturday), <code>7</code> (Sunday). |
| StartTime           | No | String                               | Configuration of the maintenance window, which specifies the start time of daily maintenance.                                                                                                                                                                                                                        |
| Span                | No | Integer                              | Configuration of the maintenance window, which specifies the maintenance duration in hours. Hour                                                                                                                                                                                                                     |
| MultiZones          | No | Boolean                              | Whether to deploy across AZs. Default value: <code>false</code> .                                                                                                                                                                                                                                                    |
| ResourceTags.N      | No | Array of <a href="#">ResourceTag</a> | Tags associated with the instances to be created                                                                                                                                                                                                                                                                     |
| Collation           | No | String                               | Collation of system character sets. Default value: <code>Chinese_PRC_CI_AS</code> .                                                                                                                                                                                                                                  |
| TimeZone            | No | String                               | System time zone. Default value: <code>China Standard Time</code> .                                                                                                                                                                                                                                                  |

### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                 |
|----------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealName       | String | Order name                                                                                                                                                  |
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request |

will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Creating an instance

This example shows you how to create a dual-server high-availability instance based on the general cloud disk.

#### Input Example

```
POST / HTTP/1.1Host: sqlserver.intl.tencentcloudapi.comContent-Type: application/
jsonX-TC-Action: CreateCloudDBInstances<common request parameters>{ "Zone": "ap-g
uangzhou-3", "InstanceChargeType": "PREPAID", "ProjectId": 0, "Memory": 4, "Stora
ge": 200, "GoodsNum": 1, "SubnetId": "subnet-15y3y4eo", "VpcId": "vpc-hqxhp43z",
"Period": 1, "DBVersion": "2008R2", "AutoRenewFlag": 0, "SecurityGroupList": [ "s
g-7hb0his1" ], "Weekly": [ 1, 2 ], "StartTime": "01:00", "Span": 1, "MultiZones":
true, "ResourceTags": [ { "TagKey": "env", "TagValue": "product" } ], "Cpu": 2,
"MachineType": "CLOUD_BSSD", "Collation": "Chinese_PRC_CI_AS", "TimeZone": "China
Standard Time" }
```

#### Output Example

```
{
  "Response": {
    "DealName": "202301231",
    "RequestId": "61999983-b0af-4889-b067-xxxxxxxxxx"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                    | Description                                             |
|-----------------------------------------------|---------------------------------------------------------|
| FailedOperation.CreateOrderFailed             | Failed to create order.                                 |
| FailedOperation.DBError                       | Database error.                                         |
| FailedOperation.GetVpcFailed                  | Failed to get VPC information.                          |
| InternalError.DBError                         | Database error                                          |
| InternalError.UnknownError                    | Unknown error.                                          |
| InvalidParameter.InputIllegal                 | Input error.                                            |
| InvalidParameter.ParamsAssertFailed           | An error occurred while converting parameter assertion. |
| InvalidParameter.PayOrderFailed               | Failed to make order payment.                           |
| InvalidParameterValue.IllegalRegion           | Invalid region.                                         |
| InvalidParameterValue.IllegalSpec             | Incorrect instance specification information.           |
| InvalidParameterValue.IllegalZone             | Incorrect AZ ID.                                        |
| InvalidParameterValue.SecurityGroupIdsIllegal | Invalid security group ID.                              |
| ResourceNotFound.VpcNotExist                  | The VPC does not exist.                                 |
| ResourceUnavailable.VpcNotExist               | VPC not found.                                          |
| UnauthorizedOperation.PermissionDenied        | CAM authentication error.                               |

# DescribeRegions

最近更新时间：2025-08-22 16:36:26

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query purchasable regions.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeRegions.                                                  |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |

## 3. Output Parameters

| Parameter Name | Type    | Description                      |
|----------------|---------|----------------------------------|
| TotalCount     | Integer | Total number of regions returned |
|                |         |                                  |



|           |                                     |                                                                                                                                                                                                                                         |
|-----------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RegionSet | Array of <a href="#">RegionInfo</a> | Region information array                                                                                                                                                                                                                |
| RequestId | String                              | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying all regions

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeRegions
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "9b0beca5-f3ea-44d3-97de-ec8f02effaea",
    "TotalCount": 9,
    "RegionSet": [
      {
        "Region": "ap-hongkong",
        "RegionName": "Hong Kong (China)",
        "RegionId": 5,
        "RegionState": "AVAILABLE"
      },
      {
        "Region": "ap-shanghai-fsi",
        "RegionName": "Shanghai Finance",
        "RegionId": 7,
        "RegionState": "AVAILABLE"
      },
      {
        "Region": "ap-shantou",
        "RegionName": "Shantou",
        "RegionId": 2,
        "RegionState": "UNAVAILABLE"
      },
      {
        "Region": "ap-tianjin",
```

```
"RegionName": "Tianjin",
"RegionId": 3,
"RegionState": "UNAVAILABLE"
},
{
"Region": "na-toronto",
"RegionName": "North America",
"RegionId": 6,
"RegionState": "UNAVAILABLE"
},
{
"Region": "ap-beijing",
"RegionName": "Beijing",
"RegionId": 8,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-shenzhen-fsi",
"RegionName": "Shenzhen Finance",
"RegionId": 11,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-guangzhou",
"RegionName": "Guangzhou",
"RegionId": 1,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-shanghai",
"RegionName": "Shanghai",
"RegionId": 4,
"RegionState": "AVAILABLE"
}
]
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| InternalError.DBError                  | Database error                                          |
| InternalError.SystemError              | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| InvalidParameterValue.IllegalRegion    | Invalid region.                                         |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeZones

最近更新时间：2025-08-04 21:29:53

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query currently purchasable AZs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeZones.                                                                                                                                                                                                                                                                                                                           |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |

## 3. Output Parameters

| Parameter | Type | Description |
|-----------|------|-------------|
|-----------|------|-------------|

| Name       |                                   |                                                                                                                                                                                                                                         |
|------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount | Integer                           | Number of AZs returned.                                                                                                                                                                                                                 |
| ZoneSet    | Array of <a href="#">ZoneInfo</a> | Array of AZs.                                                                                                                                                                                                                           |
| RequestId  | String                            | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying all availability zones

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeZones
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "c877d7ce-bde9-48dc-bf8c-9efb01570caa",
    "TotalCount": 19,
    "ZoneSet": [
      {
        "Zone": "ap-guangzhou-3",
        "ZoneName": "Guangzhou Zone 3",
        "ZoneId": 100003,
        "SpecId": 1,
        "Version": "2008R2"
      },
      {
        "Zone": "ap-guangzhou-3",
        "ZoneName": "Guangzhou Zone 3",
        "ZoneId": 100003,
        "SpecId": 5,
        "Version": "2008R2"
      },
      {
        "Zone": "ap-guangzhou-3",
```

```
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 17,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 16,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 14,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 6,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 3,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 26,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 20,
"Version": "2012SP3"
},
```

```
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 13,
  "Version": "2008R2"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 23,
  "Version": "2012SP3"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 4,
  "Version": "2008R2"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 21,
  "Version": "2012SP3"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 25,
  "Version": "2012SP3"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 24,
  "Version": "2012SP3"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 19,
```

```
"Version": "2012SP3",
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 2,
  "Version": "2008R2"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 22,
  "Version": "2012SP3"
},
{
  "Zone": "ap-guangzhou-3",
  "ZoneName": "Guangzhou Zone 3",
  "ZoneId": 100003,
  "SpecId": 18,
  "Version": "2012SP3"
}
]
}
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface



- Tencent Cloud CLI 3.0

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| InternalError.DBError                  | Database error                                          |
| InternalError.SystemError              | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| InvalidParameterValue.IllegalRegion    | Invalid region.                                         |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeProductConfig

最近更新时间：2025-08-07 11:26:45

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query purchasable specification configuration.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeProductConfig.                                                                                                                                                                                                                                                                                                                   |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| Zone           | Yes      | String | AZ ID in the format of ap-guangzhou-1.                                                                                                                                                                                                                                                                                                                                                                |
| InstanceType   | No       | String | Type of purchased instance. Valid values: HA – local disk high                                                                                                                                                                                                                                                                                                                                        |

availability (including dual-machine high availability, AlwaysOn Cluster), RO – local disk read-only replica, SI – cloud disk edition single node, BI – business intelligence service, cvmHA – cloud disk edition high availability, cvmRO – cloud disk edition read-only replica.

### 3. Output Parameters

| Parameter Name | Type                              | Description                                                                                                                                                                                                                             |
|----------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SpecInfoList   | Array of <a href="#">SpecInfo</a> | Specification information array.                                                                                                                                                                                                        |
| TotalCount     | Integer                           | Number of data entries returned.                                                                                                                                                                                                        |
| RequestId      | String                            | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

**Example1 Querying the purchasable specifications of High-Availability Edition instances in Guangzhou Zone 3**

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeProductConfig
&Zone=ap-guangzhou-3
&InstanceType=HA
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "2a91dd2e-f237-4c78-b06c-348a12b04a46",
    "SpecInfoList": [
      {
        "CPU": 16,
```

```
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 128,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 61000,
"SpecId": 22,
"SuitInfo": "Large applications with tens of millions of unique users",
"Version": "2008R2",
"VersionName": "SQL Server 2008 Enterprise"
},
{
"CPU": 1,
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 8,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 6500,
"SpecId": 17,
"SuitInfo": "Small applications with thousands of unique users",
"Version": "2012SP3",
"VersionName": "SQL Server 2012 Enterprise"
},
{
"CPU": 24,
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 192,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
```

```
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 234000,
"SpecId": 34,
"SuitInfo": "Large applications with hundreds of millions of unique users",
"Version": "2012SP3",
"VersionName": "SQL Server 2012 Enterprise"
},
{
"CPU": 16,
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 128,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 61000,
"SpecId": 22,
"SuitInfo": "Large applications with tens of millions of unique users",
"Version": "2016SP1",
"VersionName": "SQL Server 2016 Enterprise"
}
],
"TotalCount": 4
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalServerError.SystemError        | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| InvalidParameterValue.IllegalRegion    | Invalid region.                                         |
| InvalidParameterValue.IllegalZone      | Incorrect AZ ID.                                        |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeSpecSellStatus

最近更新时间：2025-08-21 19:40:37

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the status information on specifications, including the sales status and reference price. (The actual price is subject to the result returned by price querying APIs.)

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeSpecSellStatus.                                                                                                                                                                                                                                                                                                                  |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| Zone           | Yes      | String | AZ ID. For example, ap-guangzhou-3.                                                                                                                                                                                                                                                                                                                                                                   |
|                |          |        |                                                                                                                                                                                                                                                                                                                                                                                                       |

|             |     |                  |                                                                                            |
|-------------|-----|------------------|--------------------------------------------------------------------------------------------|
| SpecIdSet.N | Yes | Array of Integer | Instance specification ID, which can be obtained by calling the DescribeProductConfig API. |
| DBVersion   | Yes | String           | Database version, which can be obtained by calling the DescribeProductConfig API.          |
| Pid         | Yes | Integer          | Product ID, which can be obtained by calling the DescribeProductConfig API.                |
| PayMode     | Yes | String           | Payment mode. POST: pay-as-you-go; PRE: monthly subscription.                              |
| Currency    | Yes | String           | Currency. CNY; USD.                                                                        |

### 3. Output Parameters

| Parameter Name            | Type                                    | Description                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DescribeSpecSellStatusSet | Array of <a href="#">SpecSellStatus</a> | Status set of specifications in different regions.                                                                                                                                                                                      |
| RequestId                 | String                                  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the Reference Price of a Specification

This example shows you how to query the reference price of a specification.

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeSpecSellStatus
<Common request parameters>

{
```



```
"Currency": "CNY",
"DBVersion": "2016SP1",
"PayMode": "POST",
"Pid": 1003456,
"SpecIdSet": [
62
],
"Zone": "ap-guangzhou-3"
}
```

## Output Example

```
{
  "Response": {
    "DescribeSpecSellStatusSet": [
      {
        "Architecture": "SINGLE",
        "Id": "11000036233",
        "InstanceType": "SI",
        "MultiZonesStatus": "Invalid",
        "PayModeStatus": "ALL",
        "Price": {
          "PostpaidPrice": 47,
          "PostpaidPriceUnit": "H",
          "PrepaidPrice": 26000,
          "PrepaidPriceUnit": "M"
        },
        "SpecId": 62,
        "Status": 1,
        "Style": "EXCLUSIVE",
        "Version": "2016SP1",
        "ZoneStatusSet": [
          {
            "Region": "ap-guangzhou",
            "Status": 1,
            "Zone": "ap-guangzhou-3"
          },
          {
            "Region": "ap-guangzhou",
            "Status": 3,
            "Zone": "ap-guangzhou-4"
          },
          {
            "Region": "ap-guangzhou",
            "Status": 1,
            "Zone": "ap-guangzhou-6"
          }
        ]
      }
    ]
  }
}
```

```
},
{
  "Region": "ap-singapore",
  "Status": 1,
  "Zone": "ap-singapore-2"
},
{
  "Region": "ap-singapore",
  "Status": 1,
  "Zone": "ap-singapore-1"
},
{
  "Region": "ap-hongkong",
  "Status": 1,
  "Zone": "ap-hongkong-2"
},
{
  "Region": "ap-shanghai",
  "Status": 1,
  "Zone": "ap-shanghai-2"
},
{
  "Region": "ap-shanghai",
  "Status": 1,
  "Zone": "ap-shanghai-3"
},
{
  "Region": "ap-shanghai",
  "Status": 1,
  "Zone": "ap-shanghai-4"
},
{
  "Region": "ap-shanghai",
  "Status": 1,
  "Zone": "ap-shanghai-5"
},
{
  "Region": "ap-beijing",
  "Status": 1,
  "Zone": "ap-beijing-2"
},
{
  "Region": "ap-beijing",
  "Status": 1,
  "Zone": "ap-beijing-3"
},
{
```

```
"Region": "ap-beijing",
"Status": 1,
"Zone": "ap-beijing-5"
},
{
"Region": "ap-beijing",
"Status": 1,
"Zone": "ap-beijing-6"
},
{
"Region": "ap-beijing",
"Status": 1,
"Zone": "ap-beijing-7"
},
{
"Region": "ap-nanjing",
"Status": 1,
"Zone": "ap-nanjing-1"
},
{
"Region": "ap-nanjing",
"Status": 1,
"Zone": "ap-nanjing-2"
}
]
},
"RequestId": "df9508b2-db7c-43ac-91dc-3ba19433ae09"
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description               |
|----------------------------------------|---------------------------|
| InternalServerError.SystemError        | System error.             |
| InvalidParameterValue.IllegalRegion    | Invalid region.           |
| InvalidParameterValue.IllegalZone      | Incorrect AZ ID.          |
| UnauthorizedOperation.PermissionDenied | CAM authentication error. |

# InquiryPriceCreateDBInstances

最近更新时间：2025-08-22 16:36:25

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the price of requested instances.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name     | Required | Type    | Description                                                                                                                    |
|--------------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------|
| Action             | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: InquiryPriceCreateDBInstances.                                    |
| Version            | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region             | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Zone               | Yes      | String  | AZ ID, which can be obtained through the <code>Zone</code> field in the returned value of the <code>DescribeZones</code> API   |
| Memory             | Yes      | Integer | Memory size in GB                                                                                                              |
| Storage            | Yes      | Integer | Instance capacity in GB                                                                                                        |
| InstanceChargeType | No       | String  | Billing type. Valid value: POSTPAID.                                                                                           |
|                    |          |         |                                                                                                                                |

|              |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|----|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Period       | No | Integer | Length of purchase in months. Value range: 1–48. Default value: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| GoodsNum     | No | Integer | Number of instances purchased at a time. Value range: 1–100. Default value: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DBVersion    | No | String  | SQL version. Valid values: <code>2008R2</code> (SQL Server 2008 R2 Enterprise), <code>2012SP3</code> (SQL Server 2012 Enterprise), <code>201202</code> (SQL Server 2012 Standard), <code>2014SP2</code> (SQL Server 2014 Enterprise), <code>201402</code> (SQL Server 2014 Standard), <code>2016SP1</code> (SQL Server 2016 Enterprise), <code>201602</code> (SQL Server 2016 Standard), <code>2017</code> (SQL Server 2017 Enterprise), <code>201702</code> (SQL Server 2017 Standard), <code>2019</code> (SQL Server 2019 Enterprise), <code>201902</code> (SQL Server 2019 Standard). Default value: <code>2008R2</code> . The purchasable version varies by region. It can be queried by the <code>DescribeProductConfig</code> API. |
| Cpu          | No | Integer | The number of CPU cores of the instance you want to purchase.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| InstanceType | No | String  | The type of instance to be purchased. Valid values: <code>HA</code> (high-availability edition, including dual-server high-availability and AlwaysOn cluster edition), <code>RO</code> (read-only replica edition), <code>SI</code> (single-node edition), <code>cvmHA</code> (dual-server high-availability edition for CVM), <code>cvmRO</code> (read-only edition for CVM).                                                                                                                                                                                                                                                                                                                                                           |
| MachineType  | No | String  | The host type of the instance to be purchased. Valid values: <code>PM</code> (physical machine), <code>CLOUD_PREMIUM</code> (virtual machine with premium cloud disk), <code>CLOUD_SSD</code> (virtual machine with SSD), <code>CLOUD_HSSD</code> (virtual machine with enhanced SSD), <code>CLOUD_TSSD</code> (virtual machine with ultra SSD), <code>CLOUD_BSSD</code> (virtual machine with balanced SSD).                                                                                                                                                                                                                                                                                                                            |

### 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|----------------|------|-------------|

|               |         |                                                                                                                                                                                                                                         |
|---------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OriginalPrice | Integer | Price before discount. This value divided by 100 indicates the price; for example, 10010 means 100.10 USD                                                                                                                               |
| Price         | Integer | The actual price to be paid. This value divided by 100 indicates the price; for example, 10010 means 100.10 USD                                                                                                                         |
| RequestId     | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the price of the requested SQL Server instance

This example shows you how to query the price of the requested SQL Server instance.

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=InquiryPriceCreateDBInstances
&Zone=ap-guangzhou-2
&Memory=2
&Storage=300
&Period=1
&GoodsNum=1
&DBVersion=2008R2
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "6ace8140-6b9e-4e81-a8ad-ef3f92b2aa90",
    "OriginalPrice": 20988,
    "Price": 20988
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                               | Description                                             |
|------------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                  | Database error.                                         |
| FailedOperation.QueryPriceFailed         | Billing error. Failed to query price.                   |
| InternalError.DBError                    | Database error                                          |
| InternalError.SystemError                | System error.                                           |
| InvalidParameter.InputIllegal            | Input error.                                            |
| InvalidParameter.ParamsAssertFailed      | An error occurred while converting parameter assertion. |
| InvalidParameterValue.BadGoodsNum        | Invalid number of purchased instances.                  |
| InvalidParameterValue.IllegalRegion      | Invalid region.                                         |
| InvalidParameterValue.IllegalSpec        | Incorrect instance specification information.           |
| InvalidParameterValue.IllegalZone        | Incorrect AZ ID.                                        |
| InvalidParameterValue.ParameterTypeError | Incorrect parameter type.                               |
| UnauthorizedOperation.PermissionDenied   | CAM authentication error.                               |





# DescribeOrders

最近更新时间：2025-08-22 16:36:26

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query order information.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                                        |
|----------------|----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: DescribeOrders.                                                                       |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                           |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                     |
| DealNames.N    | Yes      | Array of String | Order array. The order name will be returned upon shipping, which can be used to call the <code>DescribeOrders</code> API to query shipment status |

## 3. Output Parameters

| Parameter | Type | Description |
|-----------|------|-------------|
|-----------|------|-------------|

| Name       |                   |                                                                                                                                                                                                                                         |
|------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Deals      | Array of DealInfo | Order information array                                                                                                                                                                                                                 |
| TotalCount | Integer           | Number of orders returned                                                                                                                                                                                                               |
| RequestId  | String            | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying orders

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeOrders
&DealNames.0=201806271245
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "TotalCount": 10,
    "Deals": [
      {
        "DealName": "201806271765",
        "OwnerUin": "3374998458",
        "Count": 1,
        "FlowId": 3456,
        "InstanceIdSet": [
          "mssql-k8vodfsw"
        ],
        "InstanceChargeType": "POST"
      }
    ]
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.QueryOrderFailed       | Failed to query order.                                  |
| InternalError.DBError                  | Database error                                          |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeInstanceByOrders

最近更新时间：2025-08-21 19:41:07

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the instance ID by the order number.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: DescribeInstanceByOrders.                                                                                                                                                                                                                                                                                                                |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| DealNames.N    | Yes      | Array of String | Order ID set                                                                                                                                                                                                                                                                                                                                                                                          |

### 3. Output Parameters

| Parameter Name | Type                                  | Description                                                                                                                                                                                                                             |
|----------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealInstance   | Array of <a href="#">DealInstance</a> | Resource ID set.                                                                                                                                                                                                                        |
| RequestId      | String                                | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the instance ID by the order number

This example shows you how to query the instance ID by the order number.

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeInstanceByOrders
<Common request parameters>

{
  "DealNames": [
    "202301018918716527262"
  ]
}
```

##### Output Example

```
{
  "Response": {
    "DealInstance": [
      {
        "InstanceId": [
          "mssql-8a9iajua"
        ],
        "DealName": "202301018918716527262"
      }
    ]
  }
}
```

```
}
],
"RequestId": "5481552e-2127-11ee-92b8-525400853186"
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                      | Description          |
|---------------------------------|----------------------|
| FailedOperation.DBError         | Database error.      |
| InvalidParameter.InputIllegal   | Input error.         |
| ResourceNotFound.ParamsNotFound | Parameter not found. |

# InquiryPriceUpgradeDBInstance

最近更新时间：2025-08-21 19:41:48

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the upgrade prices of a monthly subscribed instance.

.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: InquiryPriceUpgradeDBInstance.                                                                                                                                                                                                                                                                                                           |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| InstanceId     | Yes      | String  | Instance ID in the format of mssql-njj2mtpl.                                                                                                                                                                                                                                                                                                                                                          |
| Memory         | Yes      | Integer | Memory size after instance upgrade in GB, which cannot be                                                                                                                                                                                                                                                                                                                                             |



|         |     |         |                                                                                                                    |
|---------|-----|---------|--------------------------------------------------------------------------------------------------------------------|
|         |     |         | smaller than the current instance memory size.                                                                     |
| Storage | Yes | Integer | Storage capacity after instance upgrade in GB, which cannot be smaller than the current instance storage capacity. |
| Cpu     | No  | Integer | The number of CUP cores after the instance is upgraded, which cannot be smaller than that of the current cores.    |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OriginalPrice  | Integer | Price before discount. This value divided by 100 indicates the price; for example, 10094 means 100.94 USD.                                                                                                                              |
| Price          | Integer | The actual price to be paid. This value divided by 100 indicates the price; for example, 10094 means 100.94 USD.                                                                                                                        |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the expansion price of an instance

This example shows you how to query the expansion price of an instance.

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=InquiryPriceUpgradeDBInstance
&InstanceId=mssql-njj2mtp1
&Memory=8
&Storage=300
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
```

```
"RequestId": "dcff5304-324e-4cd6-a5f2-02cb16bde2da",
"OriginalPrice": 149696,
"Price": 149696
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                          | Description                                             |
|-------------------------------------|---------------------------------------------------------|
| FailedOperation.QueryPriceFailed    | Billing error. Failed to query price.                   |
| InternalServerError.DBError         | Database error                                          |
| InternalServerError.SystemError     | System error.                                           |
| InvalidParameter.InputIllegal       | Input error.                                            |
| InvalidParameter.ParamsAssertFailed | An error occurred while converting parameter assertion. |

|                                               |                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------------|
| InvalidParameterValue.CostTypeNotSupported    | Billing type error.                                                        |
| InvalidParameterValue.IllegalRegion           | Invalid region.                                                            |
| InvalidParameterValue.InstanceExpandVolumeLow | The expansion capacity of the instance is lower than the current capacity. |
| InvalidParameterValue.ParameterTypeError      | Incorrect parameter type.                                                  |
| ResourceNotFound.InstanceNotFound             | The instance does not exist.                                               |
| UnauthorizedOperation.PermissionDenied        | CAM authentication error.                                                  |

# Instance Management related APIs

## DescribeDBInstancesAttribute

最近更新时间：2024-11-26 16:31:47

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the attributes of an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeDBInstancesAttribute.                                     |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Instance ID                                                                                                                    |

### 3. Output Parameters

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

| Parameter Name         | Type                               | Description                                                                                                                                                                                                                             |
|------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| InstanceId             | String                             | Instance ID                                                                                                                                                                                                                             |
| RegularBackupEnable    | String                             | Archive backup status. Valid values: <code>enable</code> (enabled), <code>disable</code> (disabled)                                                                                                                                     |
| RegularBackupSaveDays  | Integer                            | Archive backup retention period: [90–3650] days                                                                                                                                                                                         |
| RegularBackupStrategy  | String                             | Archive backup policy. Valid values: <code>years</code> (yearly); <code>quarters</code> (quarterly); <code>months</code> (monthly).                                                                                                     |
| RegularBackupCounts    | Integer                            | The number of retained archive backups                                                                                                                                                                                                  |
| RegularBackupStartTime | String                             | Archive backup start date in YYYY-MM-DD format, which is the current time by default.                                                                                                                                                   |
| BlockedThreshold       | Integer                            | Block process threshold in milliseconds                                                                                                                                                                                                 |
| EventSaveDays          | Integer                            | Retention period for the files of slow SQL, blocking, deadlock, and extended events.                                                                                                                                                    |
| TDEConfig              | <a href="#">TDEConfigAttribute</a> | TDE configuration                                                                                                                                                                                                                       |
| SSLConfig              | <a href="#">SSLConfig</a>          |                                                                                                                                                                                                                                         |
| DrReadableInfo         | <a href="#">DrReadableInfo</a>     |                                                                                                                                                                                                                                         |
| OldVipList             | Array of <a href="#">OldVip</a>    |                                                                                                                                                                                                                                         |
| RequestId              | String                             | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the Attributes of the Instance mssql-j8kv137v

This example shows you how to query the attributes of an instance by this API.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDBInstancesAttribute
<Common request parameters>

{
  "InstanceId": "mssql-j8kv137v"
}
```

## Output Example

```
{
  "Response": {
    "InstanceId": "mssql-j8kv137v",
    "RegularBackupSaveDays": 1,
    "RequestId": "7",
    "RegularBackupCounts": 1,
    "RegularBackupEnable": "enable",
    "RegularBackupStrategy": "months",
    "RegularBackupStartTime": "2022-10-10",
    "EventSaveDays": 0,
    "TDEConfig": {
      "Encryption": "disable",
      "CertificateAttribution": "self",
      "QuoteUin": ""
    },
    "BlockedThreshold": 6
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalError.UnknownError             | Unknown error.                                          |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeDBInstances

最近更新时间：2025-08-04 21:30:34

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the list of instances.

A maximum of 70 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DescribeDBInstances.                                                                                                                                                                                                                                                                                                                     |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| ProjectId      | No       | Integer | Project ID                                                                                                                                                                                                                                                                                                                                                                                            |
| Status         | No       | Integer | Instance status. Valid values:                                                                                                                                                                                                                                                                                                                                                                        |



|                   |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |    |                 | <ul style="list-style-type: none"> <li>1: applying</li> <li>2: running</li> <li>3: running restrictedly (primary/secondary switching)</li> <li>4: isolated</li> <li>5: repossessing</li> <li>6: repossessed</li> <li>7: executing task (e.g., backing up or rolling back instance)</li> <li>8: deactivated</li> <li>9: scaling out instance</li> <li>10: migrating instance</li> <li>11: read-only</li> <li>12: restarting</li> </ul> |
| Offset            | No | Integer         | Page number. Default value: 0                                                                                                                                                                                                                                                                                                                                                                                                         |
| Limit             | No | Integer         | Number of results per page. Value range: 1–100. Default value: 100                                                                                                                                                                                                                                                                                                                                                                    |
| InstanceIdSet.N   | No | Array of String | One or more instance IDs in the format of mssql-si2823jyl                                                                                                                                                                                                                                                                                                                                                                             |
| PayMode           | No | Integer         | Retrieves billing type. 0: pay-as-you-go                                                                                                                                                                                                                                                                                                                                                                                              |
| VpcId             | No | String          | Unique string-type ID of instance VPC in the format of <code>vpc-xxx</code> . If an empty string ("" ) is passed in, filtering will be made by basic network.                                                                                                                                                                                                                                                                         |
| SubnetId          | No | String          | Unique string-type ID of instance subnet in the format of <code>subnet-xxx</code> . If an empty string ("" ) is passed in, filtering will be made by basic network.                                                                                                                                                                                                                                                                   |
| VipSet.N          | No | Array of String | The list of instance private IPs, such as 172.1.0.12                                                                                                                                                                                                                                                                                                                                                                                  |
| InstanceNameSet.N | No | Array of String | The list of instance names used for fuzzy match                                                                                                                                                                                                                                                                                                                                                                                       |
| VersionSet.N      | No | Array of String | The list of instance version numbers, such as 2008R2, 2012SP3                                                                                                                                                                                                                                                                                                                                                                         |
| Zone              | No | String          | Instance availability zone, such as ap-guangzhou-3                                                                                                                                                                                                                                                                                                                                                                                    |
|                   |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                |    |                 |                                                                                                                                                                                                                                                                                                                                         |
|----------------|----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TagKeys.N      | No | Array of String | The list of instance tags                                                                                                                                                                                                                                                                                                               |
| SearchKey      | No | String          | Keyword used for fuzzy match, including instance ID, instance name, and instance private IP                                                                                                                                                                                                                                             |
| UidSet.N       | No | Array of String | Unique Uid of an instance                                                                                                                                                                                                                                                                                                               |
| InstanceType   | No | String          | Instance type. HA: high-availability instance; RO: read-only instance; SI: basic edition instance; BI: business intelligence service instance; cvmHA: dual-server high-availability instance with cloud disk; cvmRO: read-only instance with cloud disk; MultiHA: multi-node instance; cvmMultiHA: multi-node instance with cloud disk. |
| PaginationType | No | String          | Pagination query method. offset – pagination query by offset; pageNumber – pagination query by number of pages. The default value is pageNumber.                                                                                                                                                                                        |

### 3. Output Parameters

| Parameter Name | Type                                | Description                                                                                                                                                                                                                                                       |
|----------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer                             | Total number of eligible instances. If the results are returned in multiple pages, this value will be the number of all eligible instances but not the number of instances returned according to the current values of <code>Limit</code> and <code>Offset</code> |
| DBInstances    | Array of <a href="#">DBInstance</a> | Instance list                                                                                                                                                                                                                                                     |
| RequestId      | String                              | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.                           |

### 4. Example

## Example1 Querying the list of instances

### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDBInstances
<Common request parameters>

{
  "Status": "2",
  "SearchKey": "172.17.0.12",
  "VpcId": "vpc-mknbt351",
  "Zone": "ap-guangzhou-3",
  "VersionSet": [
    "2008R2"
  ],
  "ProjectId": "0",
  "Offset": "0",
  "PayMode": "1",
  "Limit": "3",
  "InstanceIdSet": [
    "mssql-3l3fgqn7"
  ],
  "SubnetId": "subnet-f72hylo6",
  "TagKeys": [
    "Test tag"
  ],
  "VipSet": [
    "172.1.0.12"
  ],
  "InstanceNameSet": [
    "Data warehouse"
  ]
}
```

### Output Example

```
{
  "Response": {
    "DBInstances": [
      {
        "BackupCycle": [
          1
        ],

```

```
"BackupCycleType": "daily",
"BackupModel": "master_pkg",
"BackupSaveDays": 7,
"BackupTime": "07:03:00",
"Collation": "Chinese_PRC_CI_AS",
"Cpu": 4,
"CreateTime": "2022-11-07 16:21:01",
"CrossBackupEnabled": "disable",
"CrossBackupSaveDays": 0,
"CrossRegions": [],
"DnsPodDomain": "",
"EndTime": "0000-00-00 00:00:00",
"HAFlag": "SINGLE",
"InstanceId": "mssql-fz80u7u1",
"InstanceNote": "",
"InstanceType": "SI",
"IsolateOperator": "",
"IsolateTime": "0000-00-00 00:00:00",
"Memory": 8,
"Model": 2,
"Name": "2008-2012-2016",
"PayMode": 0,
"Pid": 1003456,
"ProjectId": 0,
"ROFlag": "",
"Region": "ap-guangzhou",
"RegionId": 1,
"RenewFlag": 0,
"ResourceTags": null,
"IsDrZone": false,
"SlaveZones": {
  "SlaveZone": "",
  "SlaveZoneName": ""
},
"StartTime": "2022-11-07 16:21:01",
"Status": 2,
"Storage": 40,
"SubFlag": "",
"SubnetId": 2118677,
"TgwWanVPort": 0,
"TimeZone": "China Standard Time",
"Type": "CLOUD_PREMIUM",
"Uid": "gamedb.gz1208.cdb.db",
"UniqSubnetId": "subnet-ieianm0o",
"UniqVpcId": "vpc-o739nubl",
"UpdateTime": "2022-11-07 20:04:03",
"UsedStorage": 0,
```

```
"Version": "2019",
"VersionName": "SQL Server 2019 Enterprise",
"Vip": "10.24.12.28",
"VpcId": 5350471,
"Vport": 1433,
"Zone": "ap-guangzhou-1"
"ZoneId": 100003
}
],
"RequestId": "de641788-0565-4617-a7f4-639de128772b",
"TotalCount": 1
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code              | Description     |
|-------------------------|-----------------|
| FailedOperation.DBError | Database error. |

|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalError                          | Internal error.                                         |
| InternalError.SystemError              | System error.                                           |
| InternalError.UnknownError             | Unknown error.                                          |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.VpcNotExist           | The VPC does not exist.                                 |
| ResourceUnavailable.VpcNotExist        | VPC not found.                                          |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeFlowStatus

最近更新时间：2024-11-26 16:31:47

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query flow status.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                    |
|----------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DescribeFlowStatus.                                               |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| FlowId         | Yes      | Integer | Flow ID                                                                                                                        |

## 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|----------------|------|-------------|

|           |         |                                                                                                                                                                                                                                         |
|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status    | Integer | Flow status. 0: succeeded, 1: failed, 2: running                                                                                                                                                                                        |
| RequestId | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying task status

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeFlowStatus
&FlowId=30403
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "Status": 0
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)



Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| InternalError                          | Internal error.                                         |
| InternalError.DBError                  | Database error                                          |
| InternalError.SystemError              | System error.                                           |
| InternalError.UnknownError             | Unknown error.                                          |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# ModifyDBInstanceName

最近更新时间：2024-11-26 16:31:46

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to rename an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyDBInstanceName.                                             |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Database instance ID in the format of mssql-njj2mtpl                                                                           |
| InstanceName   | Yes      | String | New name of database instance                                                                                                  |

## 3. Output Parameters

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Renaming the "mssql-njj2mtp1" instance to "testModifyInstanceName"

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDBInstanceName
&InstanceId=mssql-njj2mtp1
&InstanceName=testModifyInstanceName
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalError.DBError                     | Database error                                          |
| InternalError.SystemError                 | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| InvalidParameterValue.InstanceNameIllegal | The instance name contains invalid characters.          |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# DescribeCollationTimeZone

最近更新时间：2025-08-21 19:42:46

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the character set and time zone supported by the instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeCollationTimeZone.                                                                                                                                                                                                                                                                                                               |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| MachineType    | No       | String | Host type of the purchased instance. PM: physical server; CLOUD_PREMIUM: CVM with Premium Cloud Disk; CLOUD_SSD: CVM with Cloud SSD; CLOUD_HSSD: CVM with                                                                                                                                                                                                                                             |

|           |    |        |                                                                                                                                                         |
|-----------|----|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |    |        | Enhanced SSD; CLOUD_TSSD: CVM with Tremendous SSD; CLOUD_BSSD: CVM with Balanced SSD; CLOUD_BASIC: CVM with cloud disk. PM is set as the default value. |
| DBVersion | No | String | Version number of the purchased instance.                                                                                                               |

### 3. Output Parameters

| Parameter Name | Type            | Description                                                                                                                                                                                                                             |
|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Collation      | Array of String | System character set collation list.                                                                                                                                                                                                    |
| TimeZone       | Array of String | System time zone list.                                                                                                                                                                                                                  |
| RequestId      | String          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the Character Set and Time Zone Supported by the Instance

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCollationTimeZone
<Common request parameters>

{ }
```

##### Output Example

```
{
  "Response": {
```

```
"RequestId": "863b2797-858b-49f3-88e9-50159e564cbc",
"Collation": [
  "Chinese_PRC_CI_AS"
],
"TimeZone": [
  "China Standard Time"
]
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# ModifyDBInstanceProject

最近更新时间：2025-08-21 19:43:18

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify the project to which a database instance belongs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name  | Required | Type            | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|----------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action          | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: ModifyDBInstanceProject.                                                                                                                                                                                                                                                                                                                 |
| Version         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region          | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| InstanceldSet.N | Yes      | Array of String | Array of instance IDs in the format of mssql-j8kv137v                                                                                                                                                                                                                                                                                                                                                 |



|           |     |         |                                                                      |
|-----------|-----|---------|----------------------------------------------------------------------|
| ProjectId | Yes | Integer | Project ID. If this parameter is 0, the default project will be used |
|-----------|-----|---------|----------------------------------------------------------------------|

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Count          | Integer | Number of successfully modified instances                                                                                                                                                                                               |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Modifying the project to which the instance belongs

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDBInstanceProject
&InstanceIdSet.0=mssql-j8kv137v
&ProjectId=347
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "Count": 1
  }
}
```

### 5. Developer Resources

#### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalServerError.DBError               | Database error                                          |
| InternalServerError.SystemError           | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# RestartDBInstance

最近更新时间：2024-11-26 16:31:43

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to restart a database instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: RestartDBInstance.                                                |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Database instance ID in the format of mssql-njj2mtpl                                                                           |

## 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|                |      |             |

|           |         |                                                                                                                                                                                                                                         |
|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId    | Integer | Async task flow ID                                                                                                                                                                                                                      |
| RequestId | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Restarting the "mssql-niycdqff" instance

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=RestartDBInstance
&InstanceId=mssql-njj2mtpl
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
    "FlowId": "30321"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalError.DBError                     | Database error                                          |
| InternalError.SystemError                 | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# UpgradeDBInstance

最近更新时间：2025-08-21 19:43:57

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to upgrade an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: UpgradeDBInstance.                                                                                                                                                                                                                                                                                                                       |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| InstanceId     | Yes      | String | Instance ID in the format of mssql-j8kv137v                                                                                                                                                                                                                                                                                                                                                           |
|                |          |        |                                                                                                                                                                                                                                                                                                                                                                                                       |

|              |    |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------|----|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory       | No | Integer                             | Memory size after instance upgrade in GB, which cannot be smaller than the current instance memory size                                                                                                                                                                                                                                                                                                                                                                              |
| Storage      | No | Integer                             | Storage capacity after instance upgrade in GB, which cannot be smaller than the current instance storage capacity                                                                                                                                                                                                                                                                                                                                                                    |
| AutoVoucher  | No | Integer                             | Whether to automatically use vouchers. 0: no, 1: yes. Default value: 0                                                                                                                                                                                                                                                                                                                                                                                                               |
| VoucherIds.N | No | Array of String                     | Voucher ID (currently, only one voucher can be used per order)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cpu          | No | Integer                             | The number of CUP cores after the instance is upgraded.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DBVersion    | No | String                              | Upgrade the SQL Server version. Supported versions include SQL Server 2008 Enterprise ( <code>2008R2</code> ), SQL Server 2012 Enterprise ( <code>2012SP3</code> ), etc. As the purchasable versions are region-specific, you can use the <code>DescribeProductConfig</code> API to query the information of purchasable versions in each region. Downgrading is unsupported. If this parameter is left empty, the SQL Server version will not be changed.                           |
| HAType       | No | String                              | Upgrade the high availability architecture from image-based disaster recovery to Always On cluster disaster recovery. This parameter is valid only for instances which support Always On high availability and run SQL Server 2017 or later. Neither downgrading to image-based disaster recovery nor upgrading from cluster disaster recovery to Always On disaster recovery is supported. If this parameter is left empty, the high availability architecture will not be changed. |
| MultiZones   | No | String                              | Change the instance deployment scheme. Valid values: <code>SameZones</code> (change to single-AZ deployment, which does not support cross-AZ disaster recovery), <code>MultiZones</code> (change to multi-AZ deployment, which supports cross-AZ disaster recovery).                                                                                                                                                                                                                 |
| WaitSwitch   | No | Integer                             | The time when configuration adjustment task is performed. Valid values: <code>0</code> (execute immediately), <code>1</code> (execute during maintenance time). Default value: <code>1</code> .                                                                                                                                                                                                                                                                                      |
| DrZones.N    | No | Array of <a href="#">DrZoneInfo</a> | Secondary node AZ of the multi-node architecture instance. The default value is null. It should be specified when modifying the AZ of the specified secondary node                                                                                                                                                                                                                                                                                                                   |

needs to be performed during configuration adjustment. When MultiZones = MultiZones, the AZs of the primary nodes and secondary nodes cannot all be the same. The collection of AZs of the secondary node can include 2–5 AZs.

### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealName       | String | Order name.                                                                                                                                                                                                                             |
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Upgrading an instance

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=UpgradeDBInstance
&InstanceId=mssql-j8kv137v
&Memory=4
&Storage=400
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "DealName": "201806261980"
  }
}
```

### 5. Developer Resources



## SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                               | Description                                             |
|------------------------------------------|---------------------------------------------------------|
| FailedOperation.CreateOrderFailed        | Failed to create order.                                 |
| FailedOperation.DBError                  | Database error.                                         |
| FailedOperation.QueryPriceFailed         | Billing error. Failed to query price.                   |
| InternalError.DBError                    | Database error                                          |
| InternalError.SystemError                | System error.                                           |
| InvalidParameter.InputIllegal            | Input error.                                            |
| InvalidParameter.ParamsAssertFailed      | An error occurred while converting parameter assertion. |
| InvalidParameter.PayOrderFailed          | Failed to make order payment.                           |
| InvalidParameterValue.IllegalSpec        | Incorrect instance specification information.           |
| InvalidParameterValue.ParameterTypeError | Incorrect parameter type.                               |
| ResourceNotFound.InstanceNotFound        | The instance does not exist.                            |

|                                        |                           |
|----------------------------------------|---------------------------|
| UnauthorizedOperation.PermissionDenied | CAM authentication error. |
|----------------------------------------|---------------------------|

# RecycleDBInstance

最近更新时间：2024-11-26 16:33:16

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to return a deactivated SQL Server instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: RecycleDBInstance.                                                |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Instance ID                                                                                                                    |

## 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|----------------|------|-------------|

|           |         |                                                                                                                                                                                                                                         |
|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId    | Integer | Task ID                                                                                                                                                                                                                                 |
| RequestId | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Returning an instance

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=RecycleDBInstance
&InstanceId=mssql-ms2m7vut
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "FlowId": 100010,
    "RequestId": "406fc840-11c1-11eb-9be8-9fd51b7c6a12"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalError.DBError                     | Database error                                          |
| InternalError.SystemError                 | System error.                                           |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# TerminateDBInstance

最近更新时间：2025-08-21 19:44:41

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to isolate an instance to move it into a recycle bin.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name  | Required | Type            | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|----------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action          | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: TerminateDBInstance.                                                                                                                                                                                                                                                                                                                     |
| Version         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region          | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| InstanceldSet.N | Yes      | Array of String | List of instance IDs manually terminated in the format of [mssql-3l3fgqn7], which are the same as the instance IDs displayed on the TencentDB Console page                                                                                                                                                                                                                                            |

## 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Terminating a pay-as-you-go TencentDB for SQL Server instance

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=TerminateDBInstance
&InstanceIdSet.0=mssql-njj2mtpl
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "2de52957-ebe4-4d7b-8985-4e415b3fb360"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalServerError.SystemError           | System error.                                           |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |



# ModifyDReadable

最近更新时间：2024-11-26 16:33:17

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to enable or disable the read-only feature of the replica server.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                            |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyDReadable.                                                                          |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                               |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                         |
| InstanceId     | Yes      | String | Instance ID                                                                                                                                            |
| Type           | Yes      | String | Operation type. Valid values: enable – enabling the read-only mode of the replica server; disable – disabling the read-only mode of the replica server |
| VpcId          | No       | String | Replica server network ID, which will be consistent with the primary instance by default if left blank                                                 |
| SubnetId       | No       | String | Replica server subnet ID, which will be consistent with the primary                                                                                    |

|     |    |        |                                                                                            |
|-----|----|--------|--------------------------------------------------------------------------------------------|
|     |    |        | instance by default if left blank                                                          |
| Vip | No | String | Specified replica server read-only VIP, which will be assigned automatically if left blank |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task ID                                                                                                                                                                                                                                 |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Enabling or Disabling the Read-Only Feature of the Replica Server

This example shows you how to enable or disable the read-only feature of the replica server by this API.

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyDReadable
<Common request parameters>

{
  "InstanceId": "mssql-j8kv137v",
  "Type": "enable",
  "VpcId": "vpc-jh8ah7",
  "SubnetId": "sub-i90aoa",
  "Vip": "127.0.0.1"
}
```

##### Output Example

```
{
  "Response": {
```

```
"RequestId": "1fed8472-f117-11ec-be47-525400853186",
"FlowId": 1012152
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                    |
|-------------------------------------------|------------------------------------------------|
| FailedOperation.DBError                   | Database error.                                |
| FailedOperation.GcsError                  | The operation failed or the network timed out. |
| FailedOperation.NotSupport                | The operation is not supported.                |
| ResourceNotFound.ParamsNotFound           | Parameter not found.                           |
| ResourceNotFound.VpcNotExist              | The VPC does not exist.                        |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                       |

|                                 |                |
|---------------------------------|----------------|
| ResourceUnavailable.VpcNotExist | VPC not found. |
|---------------------------------|----------------|

# Operation and maintenance management related APIs

## DescribeMaintenanceSpan

最近更新时间：2025-04-17 17:02:47

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the maintenance time window of an instance based on its instance ID.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeMaintenanceSpan.                                                                                                                                                                                                                                                                                                                 |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
|                |          |        |                                                                                                                                                                                                                                                                                                                                                                                                       |

|            |     |        |                                           |
|------------|-----|--------|-------------------------------------------|
| InstanceId | Yes | String | Instance ID. For example, mssql-k8voqdlz. |
|------------|-----|--------|-------------------------------------------|

### 3. Output Parameters

| Parameter Name | Type             | Description                                                                                                                                                                                                                             |
|----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weekly         | Array of Integer | Specifies the days in each week allowed for maintenance. For example, [1,2,3,4,5,6,7] indicates that all days from Monday to Sunday are allowed for maintenance.                                                                        |
| StartTime      | String           | Maintenance start time each day. For example, 10:24 indicates that the maintenance window starts at 10:24.                                                                                                                              |
| Span           | Integer          | Maintenance duration each day, in hours. For example, 1 indicates that the duration is 1 hour after maintenance starts.                                                                                                                 |
| RequestId      | String           | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Query the maintenance time window of the instance

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeMaintenanceSpan
&InstanceId=mssql-6upluvd5
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "160c730d-b563-4a43-b377-428191d77f39",
    "Span": 6,
    "StartTime": "00:00",
    "Weekly": [
      1
    ]
  }
}
```

```
}  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                    |
|----------------------------------------|------------------------------------------------|
| FailedOperation.GcsError               | The operation failed or the network timed out. |
| InternalError.DBError                  | Database error                                 |
| InternalError.GcsError                 | GCS API error.                                 |
| InternalError.SystemError              | System error.                                  |
| InvalidParameter.InputIllegal          | Input error.                                   |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                   |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                      |

# Network management related APIs

## ModifyDBInstanceNetwork

最近更新时间：2025-08-21 19:45:24

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to switch a running instance from a VPC to another.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyDBInstanceNetwork.                                                                                                                                                                                                                                                                                                                 |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| InstanceId     | Yes      | String | Instance ID.                                                                                                                                                                                                                                                                                                                                                                                          |



|                 |     |         |                                                                                                                                               |
|-----------------|-----|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| NewVpcId        | Yes | String  | ID of the new VPC.                                                                                                                            |
| NewSubnetId     | Yes | String  | ID of the new subnet.                                                                                                                         |
| OldIpRetainTime | No  | Integer | Retention period (in hours) of the original VIP. Value range: 0-168 . Default value: 0 , indicating the original VIP is released immediately. |
| Vip             | No  | String  | New VIP.                                                                                                                                      |
| DRNetwork       | No  | Integer | Target node. 0 – modify the primary node network; 1 – modify the secondary node network. The default value is 0.                              |
| DrInstanceId    | No  | String  | Secondary server resource ID. It is required when DRNetwork = 1.                                                                              |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | ID of the instance network changing task. You can use the <a href="#">DescribeFlowStatus</a> API to query the task status.                                                                                                              |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Network Change

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyDBInstanceNetwork
<Common request parameters>

{
  "InstanceId": "mssql-e720ieef",
```

```
"NewVpcId": "vpc-kw88teud",  
"NewSubnetId": "subnet-8z5n8tcg",  
"OldIpRetainTime": "0"  
}
```

### Output Example

```
{  
  "Response": {  
    "FlowId": 1011581,  
    "RequestId": "bdac237c-b9b7-4050-9284-97898cca5883"  
  }  
}
```

## Example2 Instance Network Modification

### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDBInstanceNetwork  
&InstanceId=mssql-p2yli7gv  
&NewVpcId=vpc-ilki4qdp  
&NewSubnetId=subnet-lru6dhh8  
&Vip=127.0.0.1  
&OldIpRetainTime=12  
&<Common request parameters>
```

### Output Example

```
{  
  "Response": {  
    "RequestId": "20db6661-2a85-49d9-8a37-976b931649fb",  
    "FlowId": 100125  
  }  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                     | Description                                             |
|--------------------------------|---------------------------------------------------------|
| AuthFailure                    | CAM signature/authentication error                      |
| FailedOperation.DBError        | Database error.                                         |
| FailedOperation.GcsError       | The operation failed or the network timed out.          |
| FailedOperation.GetVpcFailed   | Failed to get VPC information.                          |
| FailedOperation.VPCErr         | Failed to operate the network or the session timed out. |
| InternalError.CamAuthFailed    | CAM authentication request failed.                      |
| InternalError.CreateFlowFailed | Failed to create flow.                                  |
| InternalError.DBConnectError   | Database connection error.                              |
| InternalError.SystemError      | System error.                                           |
| InternalError.UnknownError     | Unknown error.                                          |
| InternalError.VPCErr           | VPC error                                               |
| InvalidParameter               | Invalid parameter.                                      |
| InvalidParameter.InputIllegal  | Input error.                                            |
|                                |                                                         |

|                                           |                                                         |
|-------------------------------------------|---------------------------------------------------------|
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| InvalidParameterValue                     | The parameter value is invalid.                         |
| ResourceNotFound                          | Resource not found.                                     |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceNotFound.VpcNotExist              | The VPC does not exist.                                 |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| ResourceUnavailable.VpcNotExist           | VPC not found.                                          |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |
| UnknownParameter                          | Unknown parameter error                                 |
| UnsupportedOperation.NotSupportRepeat     | Repeated operations are not supported.                  |

# Account management related APIs

## CreateAccount

最近更新时间：2024-11-26 16:32:39

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create an instance account.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                                       | Description                                                                                                                    |
|----------------|----------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                                     | <a href="#">Common Params</a> . The value used for this API: CreateAccount.                                                    |
| Version        | Yes      | String                                     | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                                     | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld     | Yes      | String                                     | Database instance ID in the format of mssql-njj2mtpl                                                                           |
| Accounts.N     | Yes      | Array of <a href="#">AccountCreateInfo</a> | Database instance account information                                                                                          |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task flow ID                                                                                                                                                                                                                            |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating an instance account

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateAccount
<Common request parameters>

{
  "InstanceId": "mssql-njj2mtpl",
  "Accounts": [
    {
      "UserName": "testuser",
      "Password": "testpassword"
    }
  ]
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
    "FlowId": "30321"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                  | Description                                                    |
|---------------------------------------------|----------------------------------------------------------------|
| InternalServerError.SystemError             | System error.                                                  |
| InvalidParameter.InputIllegal               | Input error.                                                   |
| InvalidParameter.ParamsAssertFailed         | An error occurred while converting parameter assertion.        |
| InvalidParameterValue.AccountExist          | Account already exists.                                        |
| InvalidParameterValue.AccountNameIllegal    | The account name is invalid.                                   |
| InvalidParameterValue.AccountNameKeyWords   | The account name includes restricted contents.                 |
| InvalidParameterValue.AccountRemarkIllegal  | The account remarks are invalid.                               |
| InvalidParameterValue.AdminAccountNotUnique | You can only apply for one admin account.                      |
| InvalidParameterValue.GrantIllegal          | Invalid parameter. The value of <code>GRANT</code> is invalid. |

|                                           |                                       |
|-------------------------------------------|---------------------------------------|
| InvalidParameterValue.PasswordIsIllegal   | The account and password are invalid. |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.          |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.              |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.             |



# ModifyAccountPrivilege

最近更新时间：2024-11-26 16:32:36

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify instance account permissions.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                                                | Description                                                                                                                    |
|----------------|----------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                                              | <a href="#">Common Params</a> . The value used for this API: ModifyAccountPrivilege.                                           |
| Version        | Yes      | String                                              | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                                              | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String                                              | Database instance ID in the format of mssql-njj2mtpl                                                                           |
| Accounts.N     | Yes      | Array of <a href="#">AccountPrivilegeModifyInfo</a> | Account permission change information                                                                                          |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Async task flow ID                                                                                                                                                                                                                      |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Modifying instance account permissions

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyAccountPrivilege
<Common request parameters>

{
  "InstanceId": "mssql-njj2mtp1",
  "Accounts": [
    {
      "UserName": "testuser",
      "DBPrivileges": [
        {
          "Privilege": "ReadOnly",
          "DBName": "testdb"
        }
      ]
    }
  ]
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
  }
}
```

```
"FlowId": "30321"
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                          | Description                                             |
|-------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError             | Database error.                                         |
| FailedOperation.GcsError            | The operation failed or the network timed out.          |
| InternalServerError.SystemError     | System error.                                           |
| InternalServerError.UnknownError    | Unknown error.                                          |
| InvalidParameter.InputIllegal       | Input error.                                            |
| InvalidParameter.ParamsAssertFailed | An error occurred while converting parameter assertion. |

|                                             |                                                                |
|---------------------------------------------|----------------------------------------------------------------|
| InvalidParameterValue.AdminAccountNotUnique | You can only apply for one admin account.                      |
| InvalidParameterValue.GrantIsIllegal        | Invalid parameter. The value of <code>GRANT</code> is invalid. |
| ResourceNotFound.AccountNotExist            | The account does not exist.                                    |
| ResourceNotFound.DBNotExist                 | The database does not exist.                                   |
| ResourceNotFound.DBNotFound                 | The database does not exist.                                   |
| ResourceNotFound.InstanceNotFound           | The instance does not exist.                                   |
| ResourceUnavailable.AccountInvalidStatus    | Invalid account status.                                        |
| ResourceUnavailable.InstanceStatusInvalid   | Invalid instance status.                                       |
| UnauthorizedOperation.PermissionDenied      | CAM authentication error.                                      |

# ModifyAccountRemark

最近更新时间：2024-11-26 16:32:34

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify account remarks.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                                   | Description                                                                                                                    |
|----------------|----------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                                 | <a href="#">Common Params</a> . The value used for this API: ModifyAccountRemark.                                              |
| Version        | Yes      | String                                 | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                                 | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String                                 | Instance ID in the format of mssql-j8kv137v                                                                                    |
| Accounts.N     | Yes      | Array of <a href="#">AccountRemark</a> | Information of account for which to modify remarks                                                                             |

## 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying account remarks

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyAccountRemark
&InstanceId=mssql-j8kv137v
&Accounts.0.UserName=test
&Accounts.0.Remark=testRemark
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                  | Description                                             |
|---------------------------------------------|---------------------------------------------------------|
| InternalServerError.DBError                 | Database error                                          |
| InternalServerError.SystemError             | System error.                                           |
| InvalidParameter.InputIllegal               | Input error.                                            |
| InvalidParameter.ParamsAssertFailed         | An error occurred while converting parameter assertion. |
| InvalidParameterValue.AccountRemarksIllegal | The account remarks are invalid.                        |
| InvalidParameterValue.DBCharIllegal         | The database name contains invalid characters.          |
| ResourceNotFound.AccountNotExist            | The account does not exist.                             |
| ResourceNotFound.InstanceNotFound           | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied      | CAM authentication error.                               |

# ResetAccountPassword

最近更新时间：2024-11-26 16:32:33

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to reset the account password of an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                                     | Description                                                                                                                    |
|----------------|----------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                                   | <a href="#">Common Params</a> . The value used for this API: ResetAccountPassword.                                             |
| Version        | Yes      | String                                   | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                                   | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String                                   | Database instance ID in the format of mssql-njj2mtpl                                                                           |
| Accounts.N     | Yes      | Array of <a href="#">AccountPassword</a> | Updated account password information array                                                                                     |



### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | ID of asynchronous task flow for account password modification                                                                                                                                                                          |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Resetting the account password of the "mssql-njj2mtpl" instance

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ResetAccountPassword
&InstanceId=mssql-njj2mtpl
&Accounts.0.UserName=test_user_4
&Accounts.0.Password=1234qwer()
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "aa77bb20-7522-4b1e-bc0f-ad5d82790b17",
    "FlowId": 30457
  }
}
```

### 5. Developer Resources

#### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalError.DBError                     | Database error                                          |
| InternalError.GcsError                    | GCS API error.                                          |
| InternalError.SystemError                 | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| InvalidParameterValue.PasswordIsIllegal   | The account and password are invalid.                   |
| ResourceNotFound.AccountNotExist          | The account does not exist.                             |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.AccountInvalidStatus  | Invalid account status.                                 |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# DeleteAccount

最近更新时间：2024-11-26 16:32:38

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to delete an instance account.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                    |
|----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: DeleteAccount.                                                    |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String          | Database instance ID in the format of mssql-njj2mtpl                                                                           |
| UserNames.N    | Yes      | Array of String | Array of instance usernames                                                                                                    |

## 3. Output Parameters

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task flow ID                                                                                                                                                                                                                            |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Deleting an instance account

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DeleteAccount
&InstanceId=mssql-njj2mtp1
&UserNames.0=testusername
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
    "FlowId": 312
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalServerError.DBError               | Database error                                          |
| InternalServerError.SystemError           | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| ResourceNotFound.AccountNotExist          | The account does not exist.                             |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.AccountInvalidStatus  | Invalid account status.                                 |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# DescribeAccounts

最近更新时间：2025-08-21 19:46:08

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to pull the list of instance accounts.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DescribeAccounts.                                                                                                                                                                                                                                                                                                                        |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| Instanceld     | Yes      | String  | Instance ID                                                                                                                                                                                                                                                                                                                                                                                           |
| Limit          | No       | Integer | Number of results per page. Value range: 1-100. Default value:                                                                                                                                                                                                                                                                                                                                        |

|             |    |         |                                                                                                                                          |
|-------------|----|---------|------------------------------------------------------------------------------------------------------------------------------------------|
|             |    |         | 20                                                                                                                                       |
| Offset      | No | Integer | Page number. Default value: 0                                                                                                            |
| Name        | No | String  | Account ID                                                                                                                               |
| OrderBy     | No | String  | Sorting by <code>createTime</code> , <code>updateTime</code> , or <code>passTime</code> . Default value: <code>createTime</code> (desc). |
| OrderByType | No | String  | Sorting rule. Valid values: <code>desc</code> (descending order), <code>asc</code> (ascending order). Default value: <code>desc</code> . |

### 3. Output Parameters

| Parameter Name | Type                                   | Description                                                                                                                                                                                                                             |
|----------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| InstanceId     | String                                 | Instance ID                                                                                                                                                                                                                             |
| Accounts       | Array of <a href="#">AccountDetail</a> | Account information list                                                                                                                                                                                                                |
| TotalCount     | Integer                                | Total number                                                                                                                                                                                                                            |
| RequestId      | String                                 | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Pulling the list of instance accounts

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeSubAccounts
<Common request parameters>

{
```

```
"InstanceId": "mssql-j8kv137v"
}
```

### Output Example

```
{
  "Response": {
    "InstanceId": "mssql-632eyp63",
    "TotalCount": 1,
    "Accounts": [
      {
        "Status": 2,
        "Remark": "--",
        "AccountType": "L0",
        "Host": "127.0.0.1",
        "Name": "xiaowei",
        "IsAdmin": true,
        "UpdateTime": "2020-09-22 00:00:00",
        "InternalStatus": "enable",
        "Authentication": "win-windows",
        "PassTime": "2020-09-22 00:00:00",
        "Dbs": [
          {
            "Privilege": "ReadOnly",
            "DBName": "db1"
          }
        ],
        "CreateTime": "2020-09-22 00:00:00"
      }
    ],
    "RequestId": "5729760c-db94-4c71-a1ee-ebd43adae189"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)



- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalError.SystemError              | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# Data security encryption related APIs

## ModifyInstanceEncryptAttributes

最近更新时间：2024-11-26 16:32:04

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to enable TDE of an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name         | Required | Type   | Description                                                                                                                                                                      |
|------------------------|----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                 | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyInstanceEncryptAttributes.                                                                                    |
| Version                | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                         |
| Region                 | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                                   |
| InstanceId             | Yes      | String | Instance ID                                                                                                                                                                      |
| CertificateAttribution | Yes      | String | Certificate ownership. Valid values: <code>self</code> (certificate of this account), <code>others</code> (certificate of the other account). Default value: <code>self</code> . |
|                        |          |        |                                                                                                                                                                                  |

|          |    |        |                                                                                                                              |
|----------|----|--------|------------------------------------------------------------------------------------------------------------------------------|
| QuoteUin | No | String | ID of the other referenced root account, which is required when <code>CertificateAttribution</code> is <code>others</code> . |
|----------|----|--------|------------------------------------------------------------------------------------------------------------------------------|

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task flow ID                                                                                                                                                                                                                            |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Enabling TDE of an instance

This example shows you how to enable TDE of an instance.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyInstanceEncryptAttributes
<Common request parameters>

{
  "InstanceId": "mssql-njj2mtpl",
  "CertificateAttribution": "self",
  "QuoteUin": ""
}
```

#### Output Example

```
{
  "Response": {
    "FlowId": 12098283,
    "RequestId": "5062de55-d048-4d3b-92f9-b98b6f244360"
  }
}
```

```
}  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                            |
|-------------------------------------------|----------------------------------------|
| FailedOperation.NotSupport                | The operation is not supported.        |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.           |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.               |
| UnsupportedOperation.NotSupportRepeat     | Repeated operations are not supported. |

# ModifyDBEncryptAttributes

最近更新时间：2024-11-26 16:32:05

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to enable or disable TDE of a database.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                                  | Description                                                                                                                    |
|----------------|----------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                                | <a href="#">Common Params</a> . The value used for this API: ModifyDBEncryptAttributes.                                        |
| Version        | Yes      | String                                | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                                | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String                                | Instance ID                                                                                                                    |
| DBTDEEncrypt.N | Yes      | Array of <a href="#">DBTDEEncrypt</a> | A parameter used to enable or disable TDE of the database                                                                      |

## 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task flow ID                                                                                                                                                                                                                            |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Enabling or disabling TDE of a database

This example shows you how to enable or disable TDE of a database.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyDBEncryptAttributes
<Common request parameters>

{
  "InstanceId": "mssql-njj2mtpl",
  "DBTDEEncrypt": [
    {
      "DBName": "test_db",
      "Encryption": "enable"
    }
  ]
}
```

#### Output Example

```
{
  "Response": {
    "FlowId": 1778292,
    "RequestId": "5062de55-d048-4d3b-92f9-b98b6f244360"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                    |
|-------------------------------------------|------------------------------------------------|
| FailedOperation.DBError                   | Database error.                                |
| FailedOperation.GcsError                  | The operation failed or the network timed out. |
| FailedOperation.NotSupport                | The operation is not supported.                |
| InvalidParameter.InputIllegal             | Input error.                                   |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                   |
| ResourceNotFound.ParamsNotFound           | Parameter not found.                           |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                       |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                      |
| UnsupportedOperation                      | The operation is not supported.                |
|                                           |                                                |

UnsupportedOperation.NotSupportRepeat

Repeated operations are not supported.



# Log management related APIs

## DescribeSlowlogs

最近更新时间：2024-11-26 16:31:41

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to get file information of slow query logs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type      | Description                                                                                                                    |
|----------------|----------|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String    | <a href="#">Common Params</a> . The value used for this API: DescribeSlowlogs.                                                 |
| Version        | Yes      | String    | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String    | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String    | Instance ID in the format of mssql-k8voqdlz                                                                                    |
| StartTime      | Yes      | Timestamp | Start time in the format of <code>yyyy-MM-dd HH:mm:ss</code>                                                                   |
| EndTime        | Yes      | Timestamp | End time in the format of <code>yyyy-MM-dd HH:mm:ss</code>                                                                     |
| Limit          | No       | Integer   | Number of results per page. Value range: 1-100. Default                                                                        |

|        |    |         |                               |
|--------|----|---------|-------------------------------|
|        |    |         | value: 20                     |
| Offset | No | Integer | Page number. Default value: 0 |

### 3. Output Parameters

| Parameter Name | Type                             | Description                                                                                                                                                                                                                             |
|----------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer                          | Total number of queries                                                                                                                                                                                                                 |
| SlowLogs       | Array of <a href="#">SlowLog</a> |                                                                                                                                                                                                                                         |
| RequestId      | String                           | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Getting slow logs

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeSlowlogs
&InstanceId=mssql-9aajrcn7
&StartTime=2018-03-28 00:00:00
&EndTime=2020-11-20 00:00:00
&Limit=20
&Offset=0
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "3e166da0-1f64-11eb-98ec-533fb32c3b2c",
    "Slowlogs": [
      {
        "Count": 5,
```

```
"EndTime": "2020-11-05 20:17:14",
"ExternalAddr": "https://sqlserver-bucket-gz-1258415541.cos.ap-guangzhou.myqcloud.com/1251966477%2fsqlserver%2fmssql-9aajrcn7%2fslow%2fTRACE_20201105201000.trc?sign=q-sign-algorithm%3dsha1%26q-ak%3d*****%26q-sign-time%3d1604580096%3b1604580996%26q-key-time%3d1604580096%3b1604580996%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3d583b4db2ec94fa10e55da9b95e1e3d8943eaa386",
"Id": 30304577,
"InternalAddr": "https://sqlserver-bucket-gz-1258415541.cos.ap-guangzhou.myqcloud.com/1251966477%2fsqlserver%2fmssql-9aajrcn7%2fslow%2fTRACE_20201105201000.trc?sign=q-sign-algorithm%3dsha1%26q-ak%3d*****%26q-sign-time%3d1604580096%3b1604580996%26q-key-time%3d1604580096%3b1604580996%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3d583b4db2ec94fa10e55da9b95e1e3d8943eaa386",
"Size": 1024,
"StartTime": "2020-11-05 20:10:05",
"Status": 1
}
],
"TotalCount": 1
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalError.CosError                 | COS API error.                                          |
| InternalError.DBError                  | Database error                                          |
| InternalError.GcsError                 | GCS API error.                                          |
| InternalError.SystemError              | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# Parameter configuration related APIs

## DescribeInstanceParams

最近更新时间：2024-11-26 16:33:03

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the parameter list of an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                        |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeInstanceParams.                                                                                                                               |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                           |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                                                                     |
| InstanceId     | Yes      | String | Instance ID in the format of mssql-dj5i29c5n. It is the same as the instance ID displayed in the TencentDB console and the response parameter <code>InstanceId</code> of the <code>DescribeDBInstances</code> API. |

### 3. Output Parameters

| Parameter Name | Type                                     | Description                                                                                                                                                                                                                             |
|----------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer                                  | Total number of instance parameters                                                                                                                                                                                                     |
| Items          | Array of <a href="#">ParameterDetail</a> | Parameter details                                                                                                                                                                                                                       |
| RequestId      | String                                   | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the configurable parameter list of an instance

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeInstanceParams
&InstanceId=mssql-bm5e51kb
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "Items": [
      {
        "CurrentValue": "24",
        "Default": "0",
        "Description": "The fill-factor option is provided for fine-tuning index data storage and performance.",
        "EnumValue": [],
        "Max": 100,
        "Min": 0,
        "Name": "fill factor(%)",
        "NeedReboot": 1,
        "ParamType": "integer",
        "Status": 0
      },
    ],
  },
}
```

```
{
  "CurrentValue": "0",
  "Default": "0",
  "Description": "The max worker threads option configures the number of worker threads that are available SQL Server-wide to process query requests, login, logout, and similar application requests.",
  "EnumValue": [
    "0"
  ],
  "Max": 32767,
  "Min": 336,
  "Name": "max worker threads",
  "NeedReboot": 1,
  "ParamType": "integer",
  "Status": 0
},
{
  "CurrentValue": "30000",
  "Default": "5",
  "Description": "The cost threshold for parallelism option specifies the threshold at which SQL Server creates and runs parallel plans for queries.",
  "EnumValue": [],
  "Max": 32767,
  "Min": 0,
  "Name": "cost threshold for parallelism",
  "NeedReboot": 1,
  "ParamType": "integer",
  "Status": 0
},
{
  "CurrentValue": "1024",
  "Default": "0",
  "Description": "The degree of parallelism sets the number of processors employed to run a single statement, for each parallel plan execution. ",
  "EnumValue": [],
  "Max": 1024,
  "Min": 0,
  "Name": "max degree of parallelism",
  "NeedReboot": 1,
  "ParamType": "integer",
  "Status": 0
},
{
  "CurrentValue": "0",
  "Default": "0",
  "Description": "The optimize for ad hoc workloads option is used to improve the efficiency of the plan cache for workloads that contain many single use ad hoc bat
```

```
ches.",
"EnumValue": [
  "0",
  "1"
],
"Max": 0,
"Min": 0,
"Name": "optimize for ad hoc workloads",
"NeedReboot": 1,
"ParamType": "enum",
"Status": 0
},
{
"CurrentValue": "1024",
"Default": "0",
"Description": "This option changes the amount of memory the SQL Server Memory Manager can allocate to a SQL Server process.",
"EnumValue": [],
"Max": 2560,
"Min": 0,
"Name": "min server memory (MB) ",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
},
{
"CurrentValue": "23",
"Default": "0",
"Description": "Use the blocked process threshold option to specify the threshold, in seconds, at which blocked process reports are generated.",
"EnumValue": [],
"Max": 86400,
"Min": 0,
"Name": "blocked process threshold(s) ",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
}
],
"RequestId": "8c2fa1ec-7e13-4a2b-ba20-4d5ef93047ad",
"TotalCount": 7
}
}
```



## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                    |
|-------------------------------------------|------------------------------------------------|
| AuthFailure                               | CAM signature/authentication error             |
| FailedOperation.GcsError                  | The operation failed or the network timed out. |
| InternalError.DBError                     | Database error                                 |
| InternalError.GcsError                    | GCS API error.                                 |
| InternalError.SystemError                 | System error.                                  |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                   |
| ResourceNotFound.ParamsNotFound           | Parameter not found.                           |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                       |
| UnauthorizedOperation                     | The operation is unauthorized.                 |
|                                           |                                                |

|                                        |                           |
|----------------------------------------|---------------------------|
| UnauthorizedOperation.PermissionDenied | CAM authentication error. |
|----------------------------------------|---------------------------|

# DescribeInstanceParamRecords

最近更新时间：2024-11-26 16:33:04

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the parameter modification records of an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                                                                        |
|----------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DescribeInstanceParamRecords.                                                                                                                         |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                           |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                                                                     |
| InstanceId     | Yes      | String  | Instance ID in the format of mssql-dj5i29c5n. It is the same as the instance ID displayed in the TencentDB console and the response parameter <code>InstanceId</code> of the <code>DescribeDBInstances</code> API. |
| Offset         | No       | Integer | Page number. Default value: <code>0</code> .                                                                                                                                                                       |
| Limit          | No       | Integer | The maximum number of results returned per page. Maximum                                                                                                                                                           |

value: 100 . Default value: 20 .

### 3. Output Parameters

| Parameter Name | Type                                 | Description                                                                                                                                                                                                                             |
|----------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer                              | Number of eligible records                                                                                                                                                                                                              |
| Items          | Array of <a href="#">ParamRecord</a> | Parameter modification records                                                                                                                                                                                                          |
| RequestId      | String                               | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying instance parameter modification records

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeInstanceParamRecords
&InstanceId=mssql-bm5e51kb
&Offset=0
&Limit=100
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "Items": [
      {
        "InstanceId": "mssql-bm5e51kb",
        "ModifyTime": "2021-04-09 19:04:12",
        "NewValue": "60",
        "OldValue": "80",
        "ParamName": "fill factor(%)",
        "Status": 3
      }
    ]
  }
}
```

```
},
{
  "InstanceId": "mssql-bm5e51kb",
  "ModifyTime": "2021-04-09 20:26:57",
  "NewValue": "60",
  "OldValue": "80",
  "ParamName": "fill factor(%)",
  "Status": 3
}
],
"RequestId": "10684c55-95b7-40de-b070-23f02c6746d2",
"TotalCount": 2
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code | Description |
|------------|-------------|
|            |             |

|                                        |                                    |
|----------------------------------------|------------------------------------|
| AuthFailure                            | CAM signature/authentication error |
| InternalError.DBError                  | Database error                     |
| InternalError.SystemError              | System error.                      |
| InvalidParameter.InputIllegal          | Input error.                       |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.       |
| UnauthorizedOperation                  | The operation is unauthorized.     |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.          |

# ModifyInstanceParam

最近更新时间：2025-07-23 14:21:51

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify instance parameters.

**Note:** if the instance needs to be restarted for the modified parameter to take effect, it will be restarted immediately or during the maintenance time according to the `WaitSwitch` parameter.

Before you modify a parameter, you can use the `DescribeInstanceParams` API to query whether the instance needs to be restarted.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                             |
|----------------|----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyInstanceParam.                                                                                                                                                                                                                       |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap- |

|               |     |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|-----|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |     |                                    | shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| InstanceIds.N | Yes | Array of String                    | Instance ID list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ParamList.N   | Yes | Array of <a href="#">Parameter</a> | List of modified parameters. Each list element has two fields: <code>Name</code> and <code>CurrentValue</code> . Set <code>Name</code> to the parameter name and <code>CurrentValue</code> to the new value after modification. <b>Note:</b> if the instance needs to be <b>restarted</b> for the modified parameter to take effect, it will be <b>restarted</b> immediately or during the maintenance time. Before you modify a parameter, you can use the <code>DescribeInstanceParams</code> API to query whether the instance needs to be restarted. |
| WaitSwitch    | No  | Integer                            | When to execute the parameter modification task. Valid values: <code>0</code> (execute immediately), <code>1</code> (execute during maintenance time). Default value: <code>0</code> .                                                                                                                                                                                                                                                                                                                                                                   |

### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Modifying instance parameters

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyInstanceParam
&WaitSwitch=0
&InstanceIds.0=mssql-bm5e51kb
&InstanceIds.1=mssql-p2yli7gv
&InstanceIds.2=mssql-9ahw2qp9
&ParamList.0.Name=fill_factor(%)
&ParamList.0.CurrentValue=50
```



```
&ParamList.1.Name=cost threshold for parallelism
&ParamList.1.CurrentValue=0
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "RequestId": "74172b7e-139c-4eed-b237-856f56e67f48"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code            | Description                        |
|-----------------------|------------------------------------|
| AuthFailure           | CAM signature/authentication error |
| InternalError.DBError | Database error                     |

|                                        |                              |
|----------------------------------------|------------------------------|
| InternalError.SystemError              | System error.                |
| InvalidParameter.InputIllegal          | Input error.                 |
| ResourceNotFound.InstanceNotFound      | The instance does not exist. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.    |
| UnknownParameter                       | Unknown parameter error      |

# Extended Event APIs

## DescribeXEvents

最近更新时间：2024-11-26 16:33:20

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the list of extended events.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                   |
|----------------|----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeXEvents.                                                                 |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                      |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                |
| InstanceId     | Yes      | String | Instance ID                                                                                                                                   |
| EventType      | Yes      | String | Event type. Valid values: <code>slow</code> (Slow SQL event), <code>blocked</code> (blocking event), <code>deadlock`</code> (deadlock event). |
| StartTime      | Yes      | String | Generation start time of an extended file in the format of yyyy-MM-dd HH:mm:ss.                                                               |

|         |     |         |                                                                                  |
|---------|-----|---------|----------------------------------------------------------------------------------|
| EndTime | Yes | String  | Generation end time of an extended file in the format of yyyy-MM-dd HH:mm:ss.    |
| Offset  | No  | Integer | Page number. Default value: 0                                                    |
| Limit   | No  | Integer | Number of entries to be returned per page. Value range: 1–100. Default value: 20 |

### 3. Output Parameters

| Parameter Name | Type                            | Description                                                                                                                                                                                                                             |
|----------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Events         | Array of <a href="#">Events</a> | List of extended events                                                                                                                                                                                                                 |
| TotalCount     | Integer                         | Total number of extended events                                                                                                                                                                                                         |
| RequestId      | String                          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 DescribeXEvents

This example shows you how to query the record of an extended event for an instance, including slow SQL, blocking, and deadlock.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeXEvents
<Common request parameters>

{
  "Offset": 0,
  "Limit": 2,
  "StartTime": "2023-03-05 11:49:08",
```

```
"EndTime": "2023-03-13 11:49:08",  
"EventType": "slow",  
"InstanceId": "mssql-qp7gu6ch"  
}
```

### Output Example

```
{  
  "Response": {  
    "RequestId": "023a2da2-c152-11ed-b1aa-525400853186",  
    "TotalCount": 10,  
    "Events": [  
      {  
        "EndTime": "2023-03-10 15:45:05",  
        "EventType": "slow",  
        "ExternalAddr": "https://***",  
        "FileName": "autoed_instance_58001_20230220110419.xel",  
        "Id": 1004,  
        "InternalAddr": "https:***",  
        "Size": 10240,  
        "StartTime": "2023-03-10 15:44:15",  
        "Status": 1  
      }  
    ]  
  }  
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.CosError               | Failed to access COS.                                   |
| FailedOperation.DBError                | Database error.                                         |
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| ResourceNotFound.ParamsNotFound        | Parameter not found.                                    |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# StartInstanceXEvent

最近更新时间：2024-11-26 16:33:19

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to start and stop an extended event.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                                 | Description                                                                                                                    |
|----------------|----------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                               | <a href="#">Common Params</a> . The value used for this API: StartInstanceXEvent.                                              |
| Version        | Yes      | String                               | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                               | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String                               | Instance ID                                                                                                                    |
| EventConfig.N  | Yes      | Array of <a href="#">EventConfig</a> | Whether to start or stop an extended event                                                                                     |

## 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 StartInstanceXEvent

This example shows you how to start and stop an extended event.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartInstanceXEvent
<Common request parameters>

{
  "InstanceId": "mssql-77auaua",
  "EventConfig": [
    {
      "EventType": "slow",
      "Threshold": 0
    }
  ]
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "AH7AAJ_909AA_AAAQ_2134343"
  }
}
```



## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                   | Database error.                                         |
| FailedOperation.GcsError                  | The operation failed or the network timed out.          |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceNotFound.ParamsNotFound           | Parameter not found.                                    |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |

# Read only instance management related APIs

## CreateReadOnlyDBInstances

最近更新时间：2025-08-07 11:39:03

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create read-only instances (local disk).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                               |
|----------------|----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: CreateReadOnlyDBInstances.                                                                                                                                                                                   |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                  |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap- |

|                            |     |         |                                                                                                                                                                                                                                                                           |
|----------------------------|-----|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |     |         | shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo.                                                                                                                                              |
| InstanceId                 | Yes | String  | Instance ID in the format of <code>mssql-313fgqn7</code> .                                                                                                                                                                                                                |
| Zone                       | Yes | String  | Instance AZ, such as <code>ap-guangzhou-1</code> (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the <code>DescribeZones</code> API.                                                                                                          |
| ReadOnlyGroupType          | Yes | Integer | Read-only group types. Valid values:<br>1 (each read-only replica is placed in one auto-created read-only group),<br>2 (all read-only replicas are placed in one auto-created read-only group),<br>3 (all read-only replicas are placed in one existing read-only group). |
| Memory                     | Yes | Integer | Instance memory size in GB.                                                                                                                                                                                                                                               |
| Storage                    | Yes | Integer | Instance disk size in GB.                                                                                                                                                                                                                                                 |
| ReadOnlyGroupForcedUpgrade | No  | Integer | Valid values: <code>0</code> (not upgrade the primary instance by default), <code>1</code> (upgrade the primary instance to complete the RO deployment). You need to pass in <code>1</code> for this parameter and upgrade the primary instance to cluster edition.       |
| ReadOnlyGroupId            | No  | String  | Existing read-only group ID, which is required when <code>ReadOnlyGroupType</code> is <code>3</code> .                                                                                                                                                                    |
| ReadOnlyGroupName          | No  | String  | New read-only group ID, which is required when <code>ReadOnlyGroupType</code> is <code>2</code> .                                                                                                                                                                         |
| ReadOnlyGroupsOfflineDelay | No  | Integer | Whether delayed read-only instance removal is enabled in a new read-only group, which is required when <code>ReadOnlyGroupType</code> is <code>2</code> . Valid                                                                                                           |

|                           |    |                 |                                                                                                                                                                                                                                                         |
|---------------------------|----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |    |                 | values: <code>1</code> (enabled), <code>0</code> (disabled).<br>The read-only replica will be automatically removed when the delay between it and the primary instance exceeds the threshold.                                                           |
| ReadOnlyGroupMaxDelayTime | No | Integer         | The delay threshold for a new read-only group, which is required when <code>ReadOnlyGroupType</code> is <code>2</code> and <code>ReadOnlyGroupIsOfflineDelay</code> is <code>1</code> .                                                                 |
| ReadOnlyGroupMinInGroup   | No | Integer         | Minimum number of reserved read-only replicas when the delayed removal is enabled for the new read-only group, which is required when <code>ReadOnlyGroupType</code> is <code>2</code> and <code>ReadOnlyGroupIsOfflineDelay</code> is <code>1</code> . |
| InstanceChargeType        | No | String          | Billing mode. Valid values: <code>PREPAID</code> (monthly subscription), <code>POSTPAID</code> (pay-as-you-go).                                                                                                                                         |
| GoodsNum                  | No | Integer         | Number of read-only instances to be purchased this time. Default value: <code>2</code> .                                                                                                                                                                |
| SubnetId                  | No | String          | VPC subnet ID in the format of <code>subnet-bdoe83fa</code> . Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                               |
| VpcId                     | No | String          | VPC ID in the format of <code>vpc-dsp338hz</code> . Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                                         |
| Period                    | No | Integer         | The purchase period of an instance. Default value: <code>1</code> (one month). Maximum value: <code>48</code> .                                                                                                                                         |
| SecurityGroupList.N       | No | Array of String | Security group list, which contains security group IDs in the format of <code>sg-xxx</code> .                                                                                                                                                           |
|                           |    |                 |                                                                                                                                                                                                                                                         |

|                |    |                                      |                                                                                                            |
|----------------|----|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| AutoVoucher    | No | Integer                              | Whether to automatically use voucher.<br>Valid values: <code>0</code> (no, default), <code>1</code> (yes). |
| VoucherIds.N   | No | Array of String                      | Array of voucher IDs (currently, only one voucher can be used per order).                                  |
| ResourceTags.N | No | Array of <a href="#">ResourceTag</a> | Tags associated with the instances to be created.                                                          |
| Collation      | No | String                               | Collation of system character sets.<br>Default value: Chinese_PRC_CI_AS.                                   |
| TimeZone       | No | String                               | System time zone. Default value:<br><code>China Standard Time</code> .                                     |

### 3. Output Parameters

| Parameter Name | Type            | Description                                                                                                                                                                                                                             |
|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealNames      | Array of String | Order name in array.                                                                                                                                                                                                                    |
| RequestId      | String          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating a read-only instance

This example shows you how to create a read-only instance.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateReadOnlyDBInstances
<Common request parameters>
```

```
{
  "ReadOnlyGroupMaxDelayTime": "10",
  "VpcId": "vpc-3xq2t5a1",
  "GoodsNum": "1",
  "Zone": "ap-guangzhou-3",
  "InstanceId": "mssql-6upluvd5",
  "Period": "1",
  "Storage": "10",
  "ReadOnlyGroupIsOfflineDelay": "1",
  "ReadOnlyGroupMinInGroup": "1",
  "ReadOnlyGroupName": "default_name",
  "Collation": "Chinese_PRC_CI_AS",
  "ReadOnlyGroupType": "2",
  "InstanceChargeType": "POSTPAID",
  "Memory": "2",
  "SubnetId": "subnet-gdy95gfs",
  "TimeZone": "China Standard Time",
  "ReadOnlyGroupForcedUpgrade": "1"
}
```

### Output Example

```
{
  "Response": {
    "DealNames": [
      "20200722117963"
    ],
    "RequestId": "0509b6b8-8906-479f-9489-10620ec6d4ce"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                     | Description                                             |
|------------------------------------------------|---------------------------------------------------------|
| FailedOperation.CreateOrderFailed              | Failed to create order.                                 |
| FailedOperation.GetVpcFailed                   | Failed to get VPC information.                          |
| InternalError.DBError                          | Database error                                          |
| InternalError.SystemError                      | System error.                                           |
| InternalError.VPCErr                           | VPC error                                               |
| InvalidParameter.InputIllegal                  | Input error.                                            |
| InvalidParameter.ParamsAssertFailed            | An error occurred while converting parameter assertion. |
| InvalidParameter.PayOrderFailed                | Failed to make order payment.                           |
| InvalidParameterValue.IllegalSpec              | Incorrect instance specification information.           |
| InvalidParameterValue.ParameterTypeError       | Incorrect parameter type.                               |
| InvalidParameterValue.ReadOnlyGroupNameIllegal | Read-only group name contains invalid characters.       |
| InvalidParameterValue.SecurityGroupIdIllegal   | Invalid security group ID.                              |
| ResourceNotFound.InstanceNotFound              | The instance does not exist.                            |
| ResourceNotFound.VpcNotExist                   | The VPC does not exist.                                 |
| ResourceUnavailable.InstanceStatusInvalid      | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied         | CAM authentication error.                               |

# CreateCloudReadOnlyDBInstances

最近更新时间：2025-08-07 19:08:21

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create read-only instances (cloud disk).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                                                                                                                                  |
|----------------|----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: CreateCloudReadOnlyDBInstances.                                                                                                                                                                                                                                                 |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                     |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, |



|                            |     |         |                                                                                                                                                                                                                                                                                                         |
|----------------------------|-----|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |     |         | eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo.                                                                                                                                                                                                                                                |
| InstanceId                 | Yes | String  | Instance ID in the format of <code>mssql-3l3fgqn7</code> .                                                                                                                                                                                                                                              |
| Zone                       | Yes | String  | Instance AZ, such as <code>ap-guangzhou-1</code> (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the <code>DescribeZones</code> API.                                                                                                                                        |
| ReadOnlyGroupType          | Yes | Integer | Read-only group types. Valid values: <code>1</code> (each read-only replica is placed in one auto-created read-only group), <code>2</code> (all read-only replicas are placed in one auto-created read-only group), <code>3</code> (all read-only replicas are placed in one existing read-only group). |
| Memory                     | Yes | Integer | Instance memory size in GB.                                                                                                                                                                                                                                                                             |
| Storage                    | Yes | Integer | Instance disk size in GB.                                                                                                                                                                                                                                                                               |
| Cpu                        | Yes | Integer | Number of instance cores.                                                                                                                                                                                                                                                                               |
| MachineType                | Yes | String  | The host type of purchased instance. Valid values: <code>CLOUD_HSSD</code> (virtual machine with enhanced SSD), <code>CLOUD_TSSD</code> (virtual machine with ultra SSD), <code>CLOUD_BSSD</code> (virtual machine with balanced SSD).                                                                  |
| ReadOnlyGroupForcedUpgrade | No  | Integer | Valid values: <code>0</code> (not upgrade the primary instance by default), <code>1</code> (upgrade the primary instance to complete the RO deployment). You need to pass in <code>1</code> for this parameter and upgrade the primary instance to cluster edition.                                     |
| ReadOnlyGroupId            | No  | String  | Existing read-only group ID, which is required when <code>ReadOnlyGroupType</code> is <code>3</code> .                                                                                                                                                                                                  |
| ReadOnlyGroupName          | No  | String  | New read-only group ID, which is                                                                                                                                                                                                                                                                        |

|                                         |    |         |                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------|----|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |    |         | required when <code>ReadOnlyGroupType</code> is <code>2</code> .                                                                                                                                                                                                                                                                                           |
| <code>ReadOnlyGroupsOfflineDelay</code> | No | Integer | Whether delayed read-only instance removal is enabled in a new read-only group, which is required when <code>ReadOnlyGroupType</code> is <code>2</code> . Valid values: <code>1</code> (enabled), <code>0</code> (disabled). The read-only replica will be automatically removed when the delay between it and the primary instance exceeds the threshold. |
| <code>ReadOnlyGroupMaxDelayTime</code>  | No | Integer | The delay threshold for a new read-only group, which is required when <code>ReadOnlyGroupType</code> is <code>2</code> and <code>ReadOnlyGroupIsOfflineDelay</code> is <code>1</code> .                                                                                                                                                                    |
| <code>ReadOnlyGroupMinInGroup</code>    | No | Integer | Minimum number of reserved read-only replicas when the delayed removal is enabled for the new read-only group, which is required when <code>ReadOnlyGroupType</code> is <code>2</code> and <code>ReadOnlyGroupIsOfflineDelay</code> is <code>1</code> .                                                                                                    |
| <code>InstanceChargeType</code>         | No | String  | Billing mode. Valid values: <code>PREPAID</code> (monthly subscription), <code>POSTPAID</code> (pay-as-you-go).                                                                                                                                                                                                                                            |
| <code>GoodsNum</code>                   | No | Integer | Number of read-only instances to be purchased this time. Default value: <code>2</code> .                                                                                                                                                                                                                                                                   |
| <code>SubnetId</code>                   | No | String  | VPC subnet ID in the format of <code>subnet-bdoe83fa</code> . Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                                                                                                                                  |
| <code>VpcId</code>                      | No | String  | VPC ID in the format of <code>vpc-dsp338hz</code> . Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                                                                                                                                            |
| <code>Period</code>                     | No | Integer | The purchase period of an instance.                                                                                                                                                                                                                                                                                                                        |

|                     |    |                                      |                                                                                                            |
|---------------------|----|--------------------------------------|------------------------------------------------------------------------------------------------------------|
|                     |    |                                      | Default value: <code>1</code> (one month).<br>Maximum value: <code>48</code> .                             |
| SecurityGroupList.N | No | Array of String                      | Security group list, which contains security group IDs in the format of <code>sg-xxx</code> .              |
| AutoVoucher         | No | Integer                              | Whether to automatically use voucher.<br>Valid values: <code>0</code> (no, default), <code>1</code> (yes). |
| VoucherIds.N        | No | Array of String                      | Array of voucher IDs (currently, only one voucher can be used per order).                                  |
| ResourceTags.N      | No | Array of <a href="#">ResourceTag</a> | Tags associated with the instances to be created.                                                          |
| Collation           | No | String                               | Collation of system character sets.<br>Default value: <code>Chinese_PRC_CI_AS</code> .                     |
| TimeZone            | No | String                               | System time zone. Default value: <code>China Standard Time</code> .                                        |
| DiskEncryptFlag     | No | Integer                              | Disk encryption identification, 0 – no encryption, 1 – encryption.                                         |

### 3. Output Parameters

| Parameter Name | Type            | Description                                                                                                                                                                                                                             |
|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealNames      | Array of String | Order name in array.                                                                                                                                                                                                                    |
| RequestId      | String          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating a read-only instance

This example shows you how to create a read-only replica based on the balanced SSD.

### Input Example

```
POST / HTTP/1.1Host: sqlserver.intl.tencentcloudapi.comContent-Type: application/
jsonX-TC-Action: CreateCloudReadOnlyDBInstances<common request parameters>{ "Read
OnlyGroupMaxDelayTime": "10", "VpcId": "vpc-3xq2t5a1", "GoodsNum": "1", "Zone":
"ap-guangzhou-3", "InstanceId": "mssql-6upluvd5", "Period": "1", "Storage": "10",
"ReadOnlyGroupIsOfflineDelay": "1", "ReadOnlyGroupMinInGroup": "1", "ReadOnlyGrou
pName": "default_name", "Collation": "Chinese_PRC_CI_AS", "ReadOnlyGroupType":
"2", "InstanceChargeType": "POSTPAID", "Memory": "2", "SubnetId": "subnet-gdy95gf
s", "TimeZone": "China Standard Time", "ReadOnlyGroupForcedUpgrade": "1", "Cpu":
2, "MachineType": "CLOUD_BSSD"}
```

### Output Example

```
{
  "Response": {
    "DealNames": [
      "20200722117963"
    ],
    "RequestId": "0509b6b8-8906-479f-9489-10620ec6d4ce"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                     | Description                                             |
|------------------------------------------------|---------------------------------------------------------|
| FailedOperation.CreateOrderFailed              | Failed to create order.                                 |
| FailedOperation.DBError                        | Database error.                                         |
| FailedOperation.GetVpcFailed                   | Failed to get VPC information.                          |
| InternalError.DBError                          | Database error                                          |
| InternalError.SystemError                      | System error.                                           |
| InternalError.VPCErrors                        | VPC error                                               |
| InvalidParameter.InputIllegal                  | Input error.                                            |
| InvalidParameter.ParamsAssertFailed            | An error occurred while converting parameter assertion. |
| InvalidParameter.PayOrderFailed                | Failed to make order payment.                           |
| InvalidParameterValue.IllegalSpec              | Incorrect instance specification information.           |
| InvalidParameterValue.ParameterTypeError       | Incorrect parameter type.                               |
| InvalidParameterValue.ReadOnlyGroupNameIllegal | Read-only group name contains invalid characters.       |
| InvalidParameterValue.SecurityGroupIdIllegal   | Invalid security group ID.                              |
| ResourceNotFound.InstanceNotFound              | The instance does not exist.                            |
| ResourceNotFound.VpcNotExist                   | The VPC does not exist.                                 |
| ResourceUnavailable.InstanceStatusInvalid      | Invalid instance status.                                |
| ResourceUnavailable.VpcNotExist                | VPC not found.                                          |
| UnauthorizedOperation.PermissionDenied         | CAM authentication error.                               |

# Backup APIs

## ModifyBackupStrategy

最近更新时间：2024-11-26 16:33:44

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify the backup policy.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                                                        |
|----------------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyBackupStrategy.                                                                                                                                                 |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                           |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                                                                                     |
| InstanceId     | Yes      | String | Instance ID.                                                                                                                                                                                                                       |
| BackupType     | No       | String | Backup type. Valid values: <code>weekly</code> (when <code>length(BackupDay) &lt;=7 &amp;&amp; length(BackupDay) &gt;=2</code> ), <code>daily</code> (when <code>length(BackupDay)=1</code> ). Default value: <code>daily</code> . |

|                        |    |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BackupTime             | No | Integer          | Backup time. Value range: an integer from 0 to 23.                                                                                                                                                                                                                                                                                                                                                                                            |
| BackupDay              | No | Integer          | Backup interval in days when the <code>BackupType</code> is <code>daily</code> . Valid value: 1.                                                                                                                                                                                                                                                                                                                                              |
| BackupModel            | No | String           | Backup mode. Valid values: <code>master_pkg</code> (archive the backup files of the primary node), <code>master_no_pkg</code> (do not archive the backup files of the primary node), <code>slave_pkg</code> (archive the backup files of the replica node), <code>slave_no_pkg</code> (do not archive the backup files of the replica node). Backup files of the replica node are supported only when Always On disaster recovery is enabled. |
| BackupCycle.N          | No | Array of Integer | The days of the week on which backup will be performed when “BackupType” is <code>weekly</code> . If data backup retention period is less than 7 days, the values will be 1–7, indicating that backup will be performed everyday by default; if data backup retention period is greater than or equal to 7 days, the values will be at least any two days, indicating that backup will be performed at least twice in a week by default.      |
| BackupSaveDays         | No | Integer          | Data (log) backup retention period. Value range: 3–1830 days, default value: 7 days.                                                                                                                                                                                                                                                                                                                                                          |
| RegularBackupEnable    | No | String           | Archive backup status. Valid values: <code>enable</code> (enabled); <code>disable</code> (disabled). Default value: <code>disable</code> .                                                                                                                                                                                                                                                                                                    |
| RegularBackupSaveDays  | No | Integer          | Archive backup retention days. Value range: 90–3650 days. Default value: 365 days.                                                                                                                                                                                                                                                                                                                                                            |
| RegularBackupStrategy  | No | String           | Archive backup policy. Valid values: <code>years</code> (yearly); <code>quarters</code> (quarterly); <code>months</code> (monthly); Default value: <code>months`</code> .                                                                                                                                                                                                                                                                     |
| RegularBackupCounts    | No | Integer          | The number of retained archive backups. Default value: <code>1</code> .                                                                                                                                                                                                                                                                                                                                                                       |
| RegularBackupStartTime | No | String           | Archive backup start date in YYYY-MM-DD format, which is the current time by default.                                                                                                                                                                                                                                                                                                                                                         |

## 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Msg            | String  | Returned error message.                                                                                                                                                                                                                 |
| Code           | Integer |                                                                                                                                                                                                                                         |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying the backup policy of the "mssql-j8kv137v" instance

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyBackupStrategy
<Common request parameters>

{
  "BackupTime": "14",
  "InstanceId": "mssql-j8kv137v",
  "RegularBackupCounts": "1",
  "BackupSaveDays": "7",
  "BackupDay": "1",
  "RegularBackupSaveDays": "365",
  "BackupType": "daily",
  "RegularBackupEnable": "enable",
  "RegularBackupStrategy": "month",
  "RegularBackupStartTime": "2022-10-10"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "780339f6-30d7-419a-a30c-c2dc0933af1c",
  }
}
```



```
"Errno": 0,  
"Msg": ""  
}  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| InternalServerError.GcsError              | GCS API error.                                          |
| InternalServerError.SystemError           | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |

UnauthorizedOperation.PermissionDenied

CAM authentication error.

# DescribeBackups

最近更新时间：2024-11-26 16:32:30

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the list of backups.

A maximum of 60 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type      | Description                                                                                                                    |
|----------------|----------|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String    | <a href="#">Common Params</a> . The value used for this API: DescribeBackups.                                                  |
| Version        | Yes      | String    | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String    | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| StartTime      | Yes      | Timestamp | Start name (yyyy-MM-dd HH:mm:ss)                                                                                               |
| EndTime        | Yes      | Timestamp | End time (yyyy-MM-dd HH:mm:ss)                                                                                                 |
| Instanceld     | Yes      | String    | Instance ID in the format of mssql-njj2mtpl                                                                                    |
| Limit          | No       | Integer   | Number of results per page. Value range: 1-100. Default value: 20                                                              |

|              |    |         |                                                                                                                                                                      |
|--------------|----|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Offset       | No | Integer | Page number. Default value: 0                                                                                                                                        |
| BackupName   | No | String  | Filter by backup name. If this parameter is left empty, backup name will not be used in filtering.                                                                   |
| Strategy     | No | Integer | Filter by backup policy. Valid values: 0 (instance backup), 1 (multi-database backup). If this parameter is left empty, backup policy will not be used in filtering. |
| BackupWay    | No | Integer | Filter by backup mode. Valid values: 0 (scheduled backup); 1 (manual backup); 2 (archive backup). Default value: 2 .                                                 |
| BackupId     | No | Integer | Filter by backup ID. If this parameter is left empty, backup ID will not be used in filtering.                                                                       |
| DatabaseName | No | String  | Filter backups by the database name. If the parameter is left empty, this filter criteria will not take effect.                                                      |
| Group        | No | Integer | Whether to group backup files by backup task. Valid value: 0 (no), 1 (yes). Default value: 0 . This parameter is valid only for unarchived backup files.             |
| Type         | No | Integer | Backup type. Valid values: 1 (data backup), 2 (log backup). Default value: 1 .                                                                                       |
| BackupFormat | No | String  | Filter by backup file format. Valid values: pkg (archive file), single (Unarchived files).                                                                           |

### 3. Output Parameters

| Parameter Name | Type            | Description                                                                                                                                                                                                                             |
|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer         | Total number of backups                                                                                                                                                                                                                 |
| Backups        | Array of Backup | Backup list details                                                                                                                                                                                                                     |
| RequestId      | String          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the list of backups

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBackups
<Common request parameters>

{
  "InstanceId": "mssql-njj2mtp1",
  "EndTime": "2018-04-20 00:00:00",
  "Limit": "20",
  "StartTime": "2018-03-28 00:00:00",
  "Offset": "0"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "863b2797-858b-49f3-88e9-50159e564cbc",
    "TotalCount": 1,
    "Backups": [
      {
        "BackupFormat": "single",
        "BackupName": "mssql-xxx_20220619114124",
        "BackupWay": 0,
        "DBs": [
          "test_db"
        ],
        "CrossBackupAddr": [
          {
            "CrossExternalAddr": "http",
            "CrossInternalAddr": "http",
            "CrossRegion": "ap-beijing"
          }
        ],
        "CrossBackupStatus": [
          {
            "CrossRegion": "ap-beijing",
            "CrossStatus": 1
          }
        ]
      }
    ]
  }
}
```

```
}
],
"EndTime": "2022-06-19 11:54:53",
"ExternalAddr": "",
"FileName": "",
"GroupId": "16556099469691",
"Id": 0,
"InternalAddr": "",
"Size": 20887196,
"StartTime": "2022-06-19 11:41:24",
"Status": 1,
"Strategy": 0,
"Region": "ap-guangzhou"
}
]
}
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.CosError               | Failed to access COS.                                   |
| FailedOperation.DBError                | Database error.                                         |
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalError                          | Internal error.                                         |
| InternalError.SystemError              | System error.                                           |
| InternalError.UnknownError             | Unknown error.                                          |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeBackupFiles

最近更新时间：2024-11-26 16:32:31

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the details of an unarchived backup.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                            |
|----------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DescribeBackupFiles.                                                                      |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                               |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                         |
| InstanceId     | Yes      | String  | Instance ID in the format of mssql-njj2mtp1                                                                                                            |
| GroupId        | Yes      | String  | Group ID of unarchived backup files, which can be obtained by the <code>DescribeBackups</code> API (Querying archived backup record is not supported). |
| Limit          | No       | Integer | Number of entries to be returned per page. Value range: 1–100. Default value: <code>20</code>                                                          |
|                |          |         |                                                                                                                                                        |



|              |    |         |                                                                                                                        |
|--------------|----|---------|------------------------------------------------------------------------------------------------------------------------|
| Offset       | No | Integer | Page number. Default value: 0                                                                                          |
| DatabaseName | No | String  | Filter backups by database name. If the parameter is left empty, this filter criterion will not take effect.           |
| OrderBy      | No | String  | List items sorting by backup size. Valid values: desc (descending order), asc (ascending order). Default value: desc . |

### 3. Output Parameters

| Parameter Name | Type                | Description                                                                                                                                                                                                                             |
|----------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer             | Total number of backups                                                                                                                                                                                                                 |
| BackupFiles    | Array of BackupFile | List of backup file details                                                                                                                                                                                                             |
| RequestId      | String              | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

Example1 u200cQuerying the details of an unarchived backup.

u200cThis example shows you how to query the details of an unarchived backup.

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeBackupFiles
&Limit=20
&Offset=0
&InstanceId=mssql-mz23h8n7
&GroupId=241259
&<Common request parameters>
```

#### Output Example

```

{
  "Response": {
    "BackupFiles": [
      {
        "CrossBackupAddr": [
          {
            "CrossExternalAddr": "https://sqlserver-bucket-sg-1258415541.cos.ap-singapore.myqcloud.com/1251966477%2fsqlserver%2fmssql-mz23h8n7%2fbbackup%2fmanual_specific_58002_db2_2021_09_14144312.bak?sign=q-sign-algorithm%3dsha1%26q-ak%3d*****%26q-sign-time%3d1631605556%3b1631606456%26q-key-time%3d1631605556%3b1631606456%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3df977b8f1afee59225e41a9e766b035953ef9527c",
            "CrossInternalAddr": "https://sqlserver-bucket-sg-1258415541.cos.ap-singapore.myqcloud.com/1251966477%2fsqlserver%2fmssql-mz23h8n7%2fbbackup%2fmanual_specific_58002_db2_2021_09_14144312.bak?sign=q-sign-algorithm%3dsha1%26q-ak%3d*****%26q-sign-time%3d1631605556%3b1631606456%26q-key-time%3d1631605556%3b1631606456%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3df977b8f1afee59225e41a9e766b035953ef9527c",
            "CrossRegion": "ap-singapore"
          }
        ],
        "Region": "ap-singapore",
        "DBs": [
          "db1"
        ],
        "DownloadLink": "https://sqlserver-bucket-sg-1258415541.cos.ap-singapore.myqcloud.com/1251966477%2fsqlserver%2fmssql-mz23h8n7%2fbbackup%2fmanual_specific_58002_db1_2021_09_14144312.bak?sign=q-sign-algorithm%3dsha1%26q-ak%3d*****%26q-sign-time%3d1631605556%3b1631606456%26q-key-time%3d1631605556%3b1631606456%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3de5e61bfbccf44f6c3dd8a710296108dc95ba16db",
        "FileName": "manual_specific_58002_db1_2021_09_14144312.bak",
        "Id": 36074,
        "Size": 184
      }
    ],
    "RequestId": "cb2fb9fa-152f-11ec-ac75-525400542aa6",
    "TotalCount": 2
  }
}

```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| InternalServerError                    | Internal error.                                         |
| InternalServerError.CosError           | COS API error.                                          |
| InternalServerError.DBError            | Database error                                          |
| InternalServerError.GcsError           | GCS API error.                                          |
| InternalServerError.SystemError        | System error.                                           |
| InternalServerError.UnknownError       | Unknown error.                                          |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# CreateBackup

最近更新时间：2025-06-20 17:43:02

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create a backup.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: CreateBackup.                                                                                                                                                                                                                                                                                                                            |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| Strategy       | No       | Integer | Backup policy (0: instance backup, 1: multi-database backup)                                                                                                                                                                                                                                                                                                                                          |
|                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                       |

|                 |    |                 |                                                                                                                                                           |
|-----------------|----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| DBNames.N       | No | Array of String | List of names of databases to be backed up (required only for multi-database backup)                                                                      |
| InstanceId      | No | String          | (Required) Instance ID in the format of mssql-i1z41iwd                                                                                                    |
| BackupName      | No | String          | Backup name. If this parameter is left empty, a backup name in the format of "[Instance ID]_[Backup start timestamp]" will be automatically generated.    |
| StorageStrategy | No | Integer         | Backup storage policy. 0: Follow the custom backup retention policy; 1: Follow the instance lifecycle until the instance is eliminated. Default value: 0. |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | The async job ID                                                                                                                                                                                                                        |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating a backup

This example shows you how to create a backup.

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=CreateBackup
&InstanceId=mssql-njj2mtp1
&Strategy=1
&DBNames.0=db1
&DBNames.1=db2
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "FlowId": 5293
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code               | Description                                    |
|--------------------------|------------------------------------------------|
| FailedOperation.DBError  | Database error.                                |
| FailedOperation.GcsError | The operation failed or the network timed out. |
| InternalError            | Internal error.                                |
| InternalError.DBError    | Database error                                 |
|                          |                                                |

|                                           |                                                         |
|-------------------------------------------|---------------------------------------------------------|
| InternalError.GcsError                    | GCS API error.                                          |
| InternalError.SystemError                 | System error.                                           |
| InternalError.UnknownError                | Unknown error.                                          |
| InvalidParameter                          | Invalid parameter.                                      |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| InvalidParameterValue.BackupNameIllegal   | The backup name contains invalid characters.            |
| LimitExceeded.TooManyDB                   | The database limit is exceeded.                         |
| ResourceNotFound.DBNotFound               | The database does not exist.                            |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.DBInvalidStatus       | Invalid database status.                                |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# Rollback APIs

## DescribeRestoreTimeRange

最近更新时间：2024-11-26 16:32:59

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the time range available for rollback by time point.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name   | Required | Type   | Description                                                                                                                    |
|------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action           | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeRestoreTimeRange.                                         |
| Version          | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region           | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld       | Yes      | String |                                                                                                                                |
| TargetInstanceld | No       | String |                                                                                                                                |



### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MinTime        | String |                                                                                                                                                                                                                                         |
| MaxTime        | String |                                                                                                                                                                                                                                         |
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the Time Range Available for Rollback by Time Point.

This example shows you how to query the time range available for rollback by time point by this API (DescribeRestoreTimeRange).

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeRestoreTimeRange
<Common request parameters>

{
  "InstanceId": "mssql-aj89iq78",
  "TargetInstanceId": "mssql-jkoa09sf"
}
```

#### Output Example

```
{
  "Response": {
    "MinTime": "2024-01-01 00:00:00",
    "MaxTime": "2024-01-07 00:00:00",
    "RequestId": "cd7a35be-2fbf-f3a6-210a-ea9afe158817"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| InvalidParameterValue                  | The parameter value is invalid.                         |
| MissingParameter                       | Error of missing parameters.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeRollbackTime

最近更新时间：2024-11-26 16:31:23

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the time range available for instance rollback.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                    |
|----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: DescribeRollbackTime.                                             |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String          | Instance ID                                                                                                                    |
| DBs.N          | Yes      | Array of String | List of databases to be queried                                                                                                |

## 3. Output Parameters

| Parameter Name | Type                                        | Description                                                                                                                                                                                                                             |
|----------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Details        | Array of <a href="#">DbRollbackTimeInfo</a> | Information of time range available for database rollback                                                                                                                                                                               |
| RequestId      | String                                      | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

**Example1** Querying the time range available for rolling back "db1" in the "mssql-j8kv137v" instance

### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeRollbackTime
&InstanceId=mssql-j8kv137v
&DBs.0=db1
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "RequestId": "780339f6-30d7-419a-a30c-c2dc0933af1c",
    "Details": [
      {
        "DBName": "db1",
        "StartTime": "2018-08-07 11:09:03",
        "EndTime": "2018-08-09 11:09:03"
      }
    ]
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| InternalServerError.DBError            | Database error                                          |
| InternalServerError.GcsError           | GCS API error.                                          |
| InternalServerError.SystemError        | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# RollbackInstance

最近更新时间：2024-11-26 16:31:21

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to roll back the instance by time point.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                      |
|----------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: RollbackInstance.                                                                                   |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                         |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                   |
| InstanceId     | Yes      | String  | Instance ID                                                                                                                                                      |
| Type           | Yes      | Integer | Rollback type. 0: the database rolled back overwrites the original database; 1: the database rolled back is renamed and does not overwrite the original database |
|                |          |         |                                                                                                                                                                  |

|                  |     |                                             |                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-----|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time             | Yes | Timestamp                                   | Target time point for rollback                                                                                                                                                                                                                                                                                                                    |
| DBs.N            | No  | Array of String                             | Database to be rolled back                                                                                                                                                                                                                                                                                                                        |
| TargetInstanceld | No  | String                                      | ID of the target instance to which the backup is restored. The target instance should be under the same <code>APPID</code> . If this parameter is left empty, ID of the source instance will be used.                                                                                                                                             |
| RenameRestore.N  | No  | Array of <code>RenameRestoreDatabase</code> | Rename the databases listed in <code>ReNameRestoreDatabase</code> . This parameter takes effect only when <code>Type = 1</code> which indicates that backup rollback supports renaming databases. If it is left empty, databases will be renamed in the default format and the <code>DBs</code> parameter specifies the databases to be restored. |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | The async job ID                                                                                                                                                                                                                        |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Rolling back the database by time point

This example shows you how to roll back the database by time point.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
```

```
X-TC-Action: RollbackInstance
<Common request parameters>

{
  "InstanceId": "mssql-aj89iq78",
  "Type": 1,
  "DBs": [
    "abc"
  ],
  "Time": "2020-09-22 00:00:00",
  "TargetInstanceId": "mssql-aj89iq79",
  "RenameRestore": [
    {
      "OldName": "abc",
      "NewName": "abc"
    }
  ]
}
```

### Output Example

```
{
  "Response": {
    "FlowId": 100023,
    "RequestId": "cd7a35be-2fbf-f3a6-210a-ea9afe158817"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)



Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                   | Database error.                                         |
| InternalError.DBError                     | Database error                                          |
| InternalError.GcsError                    | GCS API error.                                          |
| InternalError.SystemError                 | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| InvalidParameterValue.DBCharIllegal       | The database name contains invalid characters.          |
| ResourceNotFound.DBNotFound               | The database does not exist.                            |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.DBInvalidStatus       | Invalid database status.                                |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# RestoreInstance

最近更新时间：2024-11-26 16:31:22

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to roll back the database by backup set.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                           |
|----------------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: RestoreInstance.                                                         |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                              |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.        |
| InstanceId     | Yes      | String  | Instance ID in the format of mssql-j8kv137v                                                                                           |
| BackupId       | Yes      | Integer | Backup file ID, which can be obtained through the <code>Id</code> field in the returned value of the <code>DescribeBackups</code> API |
|                |          |         |                                                                                                                                       |

|                  |    |                                             |                                                                                                                                                                                                          |
|------------------|----|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TargetInstanceId | No | String                                      | ID of the target instance to which the backup is restored. The target instance should be under the same <code>APPID</code> . If this parameter is left empty, ID of the source instance will be used.    |
| RenameRestore.N  | No | Array of <code>RenameRestoreDatabase</code> | Restore the databases listed in <code>ReNameRestoreDatabase</code> and rename them after restoration. If this parameter is left empty, all databases will be restored and renamed in the default format. |
| Type             | No | Integer                                     | Rollback type. Valid values: <code>0</code> (overwriting), <code>1</code> (renaming).                                                                                                                    |
| DBList.N         | No | Array of String                             | Database to be overwritten, which is required when overwriting a rollback database.                                                                                                                      |
| GroupId          | No | String                                      | Group ID of unarchived backup files grouped by backup task                                                                                                                                               |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Async flow task ID, which can be used to call the <code>DescribeFlowStatus</code> API to get the task execution status                                                                                                                  |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Rolling back the database by backup set

This example shows you how to roll back the database by backup set.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: RestoreInstance
<Common request parameters>

{
  "InstanceId": "mssql-u81902ja",
  "BackupId": 0,
  "TargetInstanceId": "mssql-u8190212",
  "RenameRestore": [
    {
      "OldName": "test_db",
      "NewName": "new_db"
    }
  ],
  "GroupId": ""
}
```

### Output Example

```
{
  "Response": {
    "FlowId": 0,
    "RequestId": "tqKar0yjquorXdNkDzkAZ8lh1_JTWJq3"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description                                             |
|-------------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                   | Database error.                                         |
| FailedOperation.GcsError                  | The operation failed or the network timed out.          |
| InternalError.DBError                     | Database error                                          |
| InternalError.SystemError                 | System error.                                           |
| InvalidParameter.InputIllegal             | Input error.                                            |
| InvalidParameter.ParamsAssertFailed       | An error occurred while converting parameter assertion. |
| InvalidParameterValue.DBExist             | The database already exists.                            |
| LimitExceeded.TooManyDB                   | The database limit is exceeded.                         |
| ResourceNotFound.DBNotFound               | The database does not exist.                            |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                            |
| ResourceUnavailable.DBInvalidStatus       | Invalid database status.                                |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                               |

# Data migration (cold standby migration) related APIs

## CreateBackupMigration

最近更新时间：2024-11-26 16:33:43

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create a backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: CreateBackupMigration.                                            |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld     | Yes      | String | ID of imported target instance                                                                                                 |
| RecoveryType   | Yes      | String | Migration task restoration type. FULL: full backup restoration, FULL_LOG: full backup and transaction log restoration,         |

|               |     |                 |                                                                                                                                                                                                                       |
|---------------|-----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |     |                 | FULL_DIFF: full backup and differential backup restoration                                                                                                                                                            |
| UploadType    | Yes | String          | Backup upload type. COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user. |
| MigrationName | Yes | String          | Task name                                                                                                                                                                                                             |
| BackupFiles.N | No  | Array of String | If the UploadType is COS_URL, fill in the URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. Only 1 backup file is supported, but a backup file can involve multiple databases.     |

### 3. Output Parameters

| Parameter Name    | Type   | Description                                                                                                                                                                                                                             |
|-------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BackupMigrationId | String | Backup import task ID                                                                                                                                                                                                                   |
| RequestId         | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating a backup file import task

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=CreateBackupMigration
&InstanceId=mssql-rdc0gajn
&RecoveryType=FULL
&UploadType=COS_UPLOAD
&MigrationName=character string
&BackupFiles.0=db1.bak
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "BackupMigrationId": "mssql-backup-migration-cg0ffgqt",
    "RequestId": "4e2f2093-9cde-44ec-b64b-edfcc2f911d4"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                          | Description                                             |
|-------------------------------------|---------------------------------------------------------|
| InternalServerError.DBError         | Database error                                          |
| InternalServerError.SystemError     | System error.                                           |
| InvalidParameter.InputIllegal       | Input error.                                            |
| InvalidParameter.ParamsAssertFailed | An error occurred while converting parameter assertion. |



|                                            |                                                 |
|--------------------------------------------|-------------------------------------------------|
| InvalidParameterValue.BackupNameIllegal    | The backup name contains invalid characters.    |
| InvalidParameterValue.MigrationNameIllegal | The migration name contains invalid characters. |
| ResourceNotFound.InstanceNotFound          | The instance does not exist.                    |
| UnauthorizedOperation.PermissionDenied     | CAM authentication error.                       |

# ModifyBackupMigration

最近更新时间：2024-11-26 16:33:32

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify a backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name    | Required | Type   | Description                                                                                                                    |
|-------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action            | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyBackupMigration.                                            |
| Version           | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region            | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld        | Yes      | String | ID of imported target instance                                                                                                 |
| BackupMigrationId | Yes      | String | Backup import task ID, which is returned through the API CreateBackupMigration                                                 |
| MigrationName     | No       | String | Task name                                                                                                                      |
|                   |          |        |                                                                                                                                |

|               |    |                                                |                                                                                                                                                                                                               |
|---------------|----|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RecoveryType  | No | String                                         | Migration task restoration type: FULL,FULL_LOG,FULL_DIFF                                                                                                                                                      |
| UploadType    | No | String                                         | COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user.             |
| BackupFiles.N | No | Array of String                                | If the UploadType is COS_URL, fill in URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. Only 1 backup file is supported, but a backup file can involve multiple databases. |
| DBRename.N    | No | Array of <a href="#">RenameRestoreDatabase</a> | Name set of databases to be renamed                                                                                                                                                                           |

### 3. Output Parameters

| Parameter Name    | Type   | Description                                                                                                                                                                                                                             |
|-------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BackupMigrationId | String | Backup import task ID                                                                                                                                                                                                                   |
| RequestId         | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Modifying a full backup import task

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyBackupMigration
<Common request parameters>
```

```
{
  "BackupMigrationId": "mssql-backup-migration-kpl74n9l",
  "InstanceId": "mssql-rdc0gajn",
  "UploadType": "COS_UPLOAD",
  "BackupFiles": [
    "db1.bak"
  ],
  "MigrationName": "character string",
  "RecoveryType": "FULL"
}
```

### Output Example

```
{
  "Response": {
    "BackupMigrationId": "mssql-backup-migration-kpl74n9l",
    "RequestId": "836a10d3-cd1f-4ac1-96a9-f2e642333f0b"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                             |
|----------------------------------------------|---------------------------------------------------------|
| FailedOperation.MigrationLockError           | Locking the backup import task failed.                  |
| InternalError.DBError                        | Database error                                          |
| InternalError.SystemError                    | System error.                                           |
| InvalidParameter.InputIllegal                | Input error.                                            |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion. |
| InvalidParameterValue.BackupNameIllegal      | The backup name contains invalid characters.            |
| InvalidParameterValue.MigrationNameIllegal   | The migration name contains invalid characters.         |
| ResourceNotFound.FullBackupMigrationNotExist | The full backup import task does not exist.             |
| ResourceNotFound.InstanceNotFound            | The instance does not exist.                            |
| ResourceUnavailable.CosStatusErr             | A wrong status of offline restoration tasks.            |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                               |

# StartBackupMigration

最近更新时间：2024-11-26 16:33:30

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to start a backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name    | Required | Type   | Description                                                                                                                    |
|-------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action            | Yes      | String | <a href="#">Common Params</a> . The value used for this API: StartBackupMigration.                                             |
| Version           | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region            | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld        | Yes      | String | ID of imported target instance                                                                                                 |
| BackupMigrationId | Yes      | String | Backup import task ID, which is returned through the API CreateBackupMigration                                                 |

## 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task ID                                                                                                                                                                                                                                 |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Starting a full migration task

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=StartBackupMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-kpl74n9l
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "FlowId": 1001399,
    "RequestId": "551b4694-5f0b-43e7-a62d-94afb2af4d3d"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                             |
|----------------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                      | Database error.                                         |
| FailedOperation.MigrationLockError           | Locking the backup import task failed.                  |
| InternalError.CosError                       | COS API error.                                          |
| InternalError.DBError                        | Database error                                          |
| InternalError.SystemError                    | System error.                                           |
| InvalidParameter.InputIllegal                | Input error.                                            |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion. |
| InvalidParameterValue.BackupNameIllegal      | The backup name contains invalid characters.            |
| ResourceNotFound.BackupNotFound              | The backup does not exist.                              |
| ResourceNotFound.FullBackupMigrationNotExist | The full backup import task does not exist.             |
| ResourceUnavailable.CosStatusErr             | A wrong status of offline restoration tasks.            |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                               |



# DescribeBackupMigration

最近更新时间：2024-11-26 16:33:37

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create an incremental backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name    | Required | Type   | Description                                                                                                                    |
|-------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action            | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeBackupMigration.                                          |
| Version           | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region            | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld        | Yes      | String | ID of imported target instance                                                                                                 |
| BackupMigrationId | No       | String | Backup import task ID, which is returned through the API CreateBackupMigration.                                                |
| MigrationName     | No       | String | Import task name                                                                                                               |
| BackupFileName    | No       | String | Backup file name                                                                                                               |
|                   |          |        |                                                                                                                                |

|              |    |                  |                                                                                                                                                                                                   |
|--------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| StatusSet.N  | No | Array of Integer | Status set of import tasks                                                                                                                                                                        |
| RecoveryType | No | String           | Import task restoration type: FULL,FULL_LOG,FULL_DIFF                                                                                                                                             |
| UploadType   | No | String           | COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user. |
| Limit        | No | Integer          | The maximum number of results returned per page. Default value: 100 .                                                                                                                             |
| Offset       | No | Integer          | Page number. Default value: 0 .                                                                                                                                                                   |
| OrderBy      | No | String           | Sort by field. Valid values: name , createTime , startTime , endTime . By default, the results returned are sorted by createTime in the ascending order.                                          |
| OrderByType  | No | String           | Sorting order which is valid only when OrderBy is specified. Valid values: asc (ascending), desc (descending). Default value: asc .                                                               |

### 3. Output Parameters

| Parameter Name     | Type               | Description                                                                                                                                                                                                                             |
|--------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount         | Integer            | Total number of tasks                                                                                                                                                                                                                   |
| BackupMigrationSet | Array of Migration | Migration task set                                                                                                                                                                                                                      |
| RequestId          | String             | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying a full backup import task

## Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBackupMigration
<Common request parameters>

{
  "BackupMigrationId": "mssql-backup-migration-kpl74n9l",
  "OrderBy": "createTime",
  "MigrationName": "character string",
  "UploadType": "COS_UPLOAD",
  "Offset": "0",
  "StatusSet": [
    "2"
  ],
  "InstanceId": "mssql-rdc0gajn",
  "Limit": "100",
  "OrderByType": "desc",
  "BackupFileName": "db1",
  "RecoveryType": "FULL"
}
```

## Output Example

```
{
  "Response": {
    "BackupMigrationSet": [
      {
        "Action": {
          "AllAction": [
            "start",
            "delete",
            "incremental",
            "modify",
            "view",
            "upload"
          ],
          "AllowedAction": [
            "view",
            "modify",
            "delete",
            "upload",
            "start"
          ]
        }
      }
    ]
  }
}
```

```
{,
  "AppId": 251006279,
  "BackupFiles": [
    "db1.bak"
  ],
  "CreateTime": "2020-09-27 16:23:47",
  "Detail": {
    "Progress": 0,
    "StepAll": 0,
    "StepInfo": [],
    "StepNow": 0
  },
  "EndTime": "0000-00-00 00:00:00",
  "InstanceId": "mssql-rdc0gajn",
  "IsRecovery": "",
  "Message": "",
  "MigrationId": "mssql-backup-migration-kpl74n9l",
  "MigrationName": "character string",
  "RecoveryType": "FULL",
  "Region": "ap-guangzhou",
  "StartTime": "0000-00-00 00:00:00",
  "Status": 2,
  "DBRename": [
    {
      "NewName": "newdb",
      "OldName": "olddb"
    }
  ],
  "UploadType": "COS_UPLOAD"
},
  "RequestId": "cf4b1509-8029-4daf-b7b1-e504ff82cbba",
  "TotalCount": 1
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| InternalServerError.DBError            | Database error                                          |
| InternalServerError.SystemError        | System error.                                           |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DeleteBackupMigration

最近更新时间：2024-11-26 16:33:40

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to delete a backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name    | Required | Type   | Description                                                                                                                    |
|-------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action            | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DeleteBackupMigration.                                            |
| Version           | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region            | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld        | Yes      | String | Target instance ID, which is returned through the API DescribeBackupMigration.                                                 |
| BackupMigrationId | Yes      | String | Backup import task ID, which is returned through the API DescribeBackupMigration.                                              |

## 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Deleting a full backup import task

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DeleteBackupMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "f0c186aa-b171-4a96-b176-b8e8ff23994d"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                             |
|----------------------------------------------|---------------------------------------------------------|
| FailedOperation.MigrationLockError           | Locking the backup import task failed.                  |
| InternalError.DBError                        | Database error                                          |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion. |
| ResourceNotFound.FullBackupMigrationNotExist | The full backup import task does not exist.             |
| ResourceUnavailable.CosStatusErr             | A wrong status of offline restoration tasks.            |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                               |



# DescribeUploadBackupInfo

最近更新时间：2024-11-26 16:33:34

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query a backup upload permission.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name    | Required | Type   | Description                                                                                                                    |
|-------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action            | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeUploadBackupInfo.                                         |
| Version           | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region            | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId        | Yes      | String | ID of imported target instance                                                                                                 |
| BackupMigrationId | Yes      | String | Backup import task ID, which is returned through the API CreateBackupMigration                                                 |

## 3. Output Parameters

| Parameter Name   | Type   | Description                                                                                                                                                                                                                             |
|------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BucketName       | String | Bucket name                                                                                                                                                                                                                             |
| Region           | String | Bucket location information                                                                                                                                                                                                             |
| Path             | String | Storage path                                                                                                                                                                                                                            |
| TmpSecretId      | String | Temporary key ID                                                                                                                                                                                                                        |
| TmpSecretKey     | String | Temporary key (Key)                                                                                                                                                                                                                     |
| StartTime        | String | Temporary key start time                                                                                                                                                                                                                |
| ExpiredTime      | String | Temporary key expiration time                                                                                                                                                                                                           |
| CosSecurityToken | String |                                                                                                                                                                                                                                         |
| RequestId        | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the upload key of full backups

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeUploadBackupInfo
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-kpl74n9l
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "BucketName": "cosbacktest-1254065710",
    "ExpiredTime": "1601205149",
    "Path": "251006279/sqlserver/mssql-rdc0gajn/migration/backup/mssql-backup-migration-kpl74n9l/",
    "Region": "ap-guangzhou",
    "RequestId": "6ce2010c-a9c2-474d-860e-f2c8581304eb",
```

```
"StartTime": "1601204649",
"TmpSecretId": "AKID44fDXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"TmpSecretKey": "2jW0oltcvf21JIsNUaXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"XCosSecurityToken": "J6nJk8Q30PaQwyvn40F4oOezabX61kra1cf794342ff14c39705aa17584f81650YmAxWf4vkrV2ZK2Gcr_-kzjJ7a_fRRCeQtXd547VoWnmbJ2txpX6Kj_SywpVdS4c4sMrIn2aFir1nmTu--k_a9NDyykODaR2O3n-PP_k84qacwjb-XXXXXXXXXXXXXXXXXXXXXXXXXXXX"
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                         | Description                                                         |
|------------------------------------|---------------------------------------------------------------------|
| FailedOperation.CosPropertiesError | Errors occurred while acquiring uploaded configuration information. |
| FailedOperation.MigrationLockError | Locking the backup import task failed.                              |
| InternalError.DBError              | Database error                                                      |

|                                              |                                                         |
|----------------------------------------------|---------------------------------------------------------|
| InternalError.StsError                       | Errors occurred while acquiring temporary keys.         |
| InvalidParameter.InputIllegal                | Input error.                                            |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion. |
| InvalidParameterValue.CosPathError           | Wrong upload path.                                      |
| ResourceNotFound.FullBackupMigrationNotExist | The full backup import task does not exist.             |
| ResourceUnavailable.CosStatusErr             | A wrong status of offline restoration tasks.            |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                               |
| UnsupportedOperation.UploadTypeError         | A wrong upload type.                                    |

# CreateIncrementalMigration

最近更新时间：2024-11-26 16:33:41

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create an incremental backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name    | Required | Type            | Description                                                                                                                                                               |
|-------------------|----------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action            | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: CreateIncrementalMigration.                                                                                  |
| Version           | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                  |
| Region            | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                            |
| InstanceId        | Yes      | String          | ID of imported target instance                                                                                                                                            |
| BackupMigrationId | Yes      | String          | Backup import task ID, which is returned through the API CreateBackupMigration.                                                                                           |
| BackupFiles.N     | No       | Array of String | Incremental backup file. If the UploadType of a full backup file is COS_URL, fill in URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. |

|            |    |        |                                                                                            |
|------------|----|--------|--------------------------------------------------------------------------------------------|
|            |    |        | Only 1 backup file is supported, but a backup file can involve multiple databases.         |
| IsRecovery | No | String | Whether restoration is required. No: not required. Yes: required. Not required by default. |

### 3. Output Parameters

| Parameter Name         | Type   | Description                                                                                                                                                                                                                             |
|------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IncrementalMigrationId | String | ID of an incremental backup import task                                                                                                                                                                                                 |
| RequestId              | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating an incremental migration task

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=CreateIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IsRecovery=NO
&BackupFiles.0=db_cvm_1_20200927204209_2log2_2noreconvery2.bak
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "IncrementalMigrationId": "mssql-incremental-migration-kp7bgv8p",
    "RequestId": "1e3d890b-1ff7-44ba-808d-633f11c873d8"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                                     |
|----------------------------------------------|-----------------------------------------------------------------|
| FailedOperation.MigrationLockError           | Locking the backup import task failed.                          |
| InternalError.DBError                        | Database error                                                  |
| InternalError.SystemError                    | System error.                                                   |
| InvalidParameter.InputIllegal                | Input error.                                                    |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion.         |
| InvalidParameterValue.BackupNameIllegal      | The backup name contains invalid characters.                    |
| ResourceInUse.IncrementalMigrationExist      | An incremental backup import task to be started already exists. |
| ResourceNotFound.FullBackupMigrationNotExist | The full backup import task does not exist.                     |

|                                                    |                                                                  |
|----------------------------------------------------|------------------------------------------------------------------|
| ResourceNotFound.InstanceNotFound                  | The instance does not exist.                                     |
| ResourceUnavailable.BackupMigrationRecoveryTypeErr | The restoration type does not support incremental backup import. |
| ResourceUnavailable.CosStatusErr                   | A wrong status of offline restoration tasks.                     |
| UnauthorizedOperation.PermissionDenied             | CAM authentication error.                                        |



# ModifyIncrementalMigration

最近更新时间：2024-11-26 16:33:31

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify an incremental backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name         | Required | Type   | Description                                                                                                                    |
|------------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action                 | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyIncrementalMigration.                                       |
| Version                | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region                 | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId             | Yes      | String | ID of imported target instance                                                                                                 |
| BackupMigrationId      | Yes      | String | Backup import task ID, which is returned through the API CreateBackupMigration                                                 |
| IncrementalMigrationId | Yes      | String | Incremental backup import task ID, which is returned through the <code>CreateIncrementalMigration</code> API.                  |
| IsRecovery             | No       | String | Whether to restore backups. Valid values: <code>NO</code> ,                                                                    |

|               |    |                 |                                                                                                                                                                                                               |
|---------------|----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |    |                 | YES . If this parameter is not specified, current settings will be applied.                                                                                                                                   |
| BackupFiles.N | No | Array of String | If the UploadType is COS_URL, fill in URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. Only 1 backup file is supported, but a backup file can involve multiple databases. |

### 3. Output Parameters

| Parameter Name         | Type   | Description                                                                                                                                                                                                                             |
|------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IncrementalMigrationId | String | ID of an incremental backup import task                                                                                                                                                                                                 |
| RequestId              | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Modifying an incremental migration task

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&IsRecovery=YES
&BackupFiles.0=db_cvm_1_20200927204209_2log2_2reconvery2.bak
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "IncrementalMigrationId": "mssql-incremental-migration-kp7bgv8p",
    "RequestId": "dab70669-594b-4610-981b-5bfeef7182bb"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                             |
|----------------------------------------------|---------------------------------------------------------|
| FailedOperation.MigrationLockError           | Locking the backup import task failed.                  |
| InternalError.DBError                        | Database error                                          |
| InternalError.SystemError                    | System error.                                           |
| InvalidParameter.InputIllegal                | Input error.                                            |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion. |
| InvalidParameterValue.BackupNameIllegal      | The backup name contains invalid characters.            |
| InvalidParameterValue.MigrationNameIllegal   | The migration name contains invalid characters.         |
| ResourceNotFound.FullBackupMigrationNotExist | The full backup import task does not exist.             |

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                 |
| ResourceUnavailable.CosStatusErr       | A wrong status of offline restoration tasks. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                    |

# StartIncrementalMigration

最近更新时间：2024-11-26 16:33:29

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to start an incremental backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name         | Required | Type   | Description                                                                                                                    |
|------------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action                 | Yes      | String | <a href="#">Common Params</a> . The value used for this API: StartIncrementalMigration.                                        |
| Version                | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region                 | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld             | Yes      | String | ID of imported target instance                                                                                                 |
| BackupMigrationId      | Yes      | String | Backup import task ID, which is returned through the API CreateBackupMigration                                                 |
| IncrementalMigrationId | Yes      | String | ID of an incremental backup import task                                                                                        |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task ID                                                                                                                                                                                                                                 |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Starting an incremental import task

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=StartIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "FlowId": 1001403,
    "RequestId": "6f2b5d2b-a3c1-426d-8e1c-325a69ccb694"
  }
}
```

### 5. Developer Resources

#### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                             |
|----------------------------------------------|---------------------------------------------------------|
| FailedOperation.MigrationLockError           | Locking the backup import task failed.                  |
| InternalError.CosError                       | COS API error.                                          |
| InternalError.DBError                        | Database error                                          |
| InternalError.SystemError                    | System error.                                           |
| InternalError.UnknownError                   | Unknown error.                                          |
| InvalidParameter.InputIllegal                | Input error.                                            |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion. |
| InvalidParameterValue.BackupNameIllegal      | The backup name contains invalid characters.            |
| ResourceNotFound.BackupNotFound              | The backup does not exist.                              |
| ResourceNotFound.FullBackupMigrationNotExist | The full backup import task does not exist.             |
| ResourceUnavailable.CosStatusErr             | A wrong status of offline restoration tasks.            |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                               |

# DescribeIncrementalMigration

最近更新时间：2024-11-26 16:33:35

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query an incremental backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name    | Required | Type     | Description                                                                                                                    |
|-------------------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------|
| Action            | Yes      | String   | <a href="#">Common Params</a> . The value used for this API: DescribeIncrementalMigration.                                     |
| Version           | Yes      | String   | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region            | Yes      | String   | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| BackupMigrationId | Yes      | String   | Backup import task ID, which is returned through the API CreateBackupMigration                                                 |
| InstanceId        | Yes      | String   | ID of imported target instance                                                                                                 |
| BackupFileName    | No       | String   | Backup file name                                                                                                               |
| StatusSet.N       | No       | Array of | Status set of import tasks                                                                                                     |



|                        |    |         |                                                                                                                                                                                                                           |
|------------------------|----|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |    | Integer |                                                                                                                                                                                                                           |
| Limit                  | No | Integer | The maximum number of results returned per page. Default value: <code>100</code> .                                                                                                                                        |
| Offset                 | No | Integer | Page number. Default value: <code>0</code> .                                                                                                                                                                              |
| OrderBy                | No | String  | Sort by field. Valid values: <code>name</code> , <code>createTime</code> , <code>startTime</code> , <code>endTime</code> . By default, the results returned are sorted by <code>createTime</code> in the ascending order. |
| OrderByType            | No | String  | Sorting order which is valid only when <code>OrderBy</code> is specified. Valid values: <code>asc</code> (ascending), <code>desc</code> (descending). Default value: <code>asc</code> .                                   |
| IncrementalMigrationId | No | String  | Incremental backup import task ID, which is returned through the <code>CreateIncrementalMigration</code> API.                                                                                                             |

### 3. Output Parameters

| Parameter Name          | Type                               | Description                                                                                                                                                                                                                             |
|-------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount              | Integer                            | Total number of import tasks                                                                                                                                                                                                            |
| IncrementalMigrationSet | Array of <a href="#">Migration</a> | Incremental import task set                                                                                                                                                                                                             |
| RequestId               | String                             | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying incremental backup import tasks

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeIncrementalMigration
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&BackupFileName=cvm
```

```
&Limit=100
&Offset=0
&OrderBy=createTime
&OrderByType=desc
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&StatusSet.0=2
&InstanceId=mssql-rdc0gajn
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "IncrementalMigrationSet": [
      {
        "Action": {
          "AllAction": [
            "start",
            "delete",
            "incremental",
            "modify",
            "view",
            "upload"
          ],
          "AllowedAction": [
            "view",
            "modify",
            "delete",
            "upload",
            "start"
          ]
        },
        "AppId": 251006279,
        "BackupFiles": [
          "db_cvm_1_20200927204209_2log2_2noreconvery2.bak"
        ],
        "CreateTime": "2020-09-27 20:44:59",
        "Detail": {
          "Progress": 0,
          "StepAll": 0,
          "StepInfo": [],
          "StepNow": 0
        },
        "EndTime": "0000-00-00 00:00:00",
        "InstanceId": "mssql-rdc0gajn",
        "IsRecovery": "NO",
```

```
"Message": "",
"MigrationId": "mssql-incremental-migration-kp7bgv8p",
"MigrationName": "",
"RecoveryType": "FULL_LOG",
"Region": "ap-guangzhou",
"StartTime": "0000-00-00 00:00:00",
"Status": 2,
"UploadType": "COS_UPLOAD"
},
"RequestId": "6dc136cb-e2e8-42b7-babc-2fc3b6f50d3d",
"TotalCount": 1
}
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code | Description |
|------------|-------------|
|            |             |

|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| InternalError.DBError                  | Database error                                          |
| InternalError.SystemError              | System error.                                           |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeBackupCommand

最近更新时间：2024-11-26 16:33:38

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the commands of creating backups canonically.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                                                                    |
|----------------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeBackupCommand.                                                                                                            |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                                                 |
| BackupFileType | Yes      | String | Backup file type. Full: full backup. FULL_LOG: full backup which needs log increments. FULL_DIFF: full backup which needs differential increments. LOG: log backup. DIFF: differential backup. |
| DataBaseName   | Yes      | String | Database name                                                                                                                                                                                  |
| IsRecovery     | Yes      | String | Whether restoration is required. No: not required. Yes: required.                                                                                                                              |

|           |    |        |                                                                                                      |
|-----------|----|--------|------------------------------------------------------------------------------------------------------|
| LocalPath | No | String | Storage path of backup files. If this parameter is left empty, the default storage path will be D:\. |
|-----------|----|--------|------------------------------------------------------------------------------------------------------|

### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Command        | String | Create a backup command                                                                                                                                                                                                                 |
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the Command of Creating a Full Backup

This example shows you how to query the command to create a full backup and an incremental transaction log backup when you need to import the incremental transaction log backup. The full backup created does not need to be restored.

\\n in the command means a line feed.

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeBackupCommand
&BackupFileType=FULL
&DataBaseName=db1
&IsRecovery=YES
&LocalPath=E:/
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "Command": "declare @dbname varchar(100)\\n\\n\\ndeclare @localtime varchar(20)\\n\\n\\ndeclare @str varchar(8000)\\n\\n\\nset @dbname='db1'\\n\\n\\nset @localtime =replace(replace(replace(CONVERT(varchar, getdate(), 120 ),'-',''),' ',''),':','')\\n\\n\\nset @str = 'BACKUP DATABASE [' + @dbname + '] TO DISK = N'E:/' + @dbname + '_' + @localtim
```

```
e + '_2full2_2noreconvery2.bak' WITH INIT'\\n\\n\\nexec(@str)\\n\\nngo",
"RequestId": "03199d88-9dda-49eb-a045-7c69eb4d3591"
}
}
```

## Example2 Querying the Command of Creating an Incremental Transaction Log Backup

This example shows you how to obtain the recovered incremental backup of transaction logs by this API when an incremental import of transaction logs is needed.

\\n in the command means a line feed.

### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeBackupCommand
&BackupFileType=LOG
&DataBaseName=db1
&IsRecovery=YES
&LocalPath=E:/
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "Command": "BACKUP DATABASE db1 TO DISK='E:/db1.bak' WITH INIT",
    "RequestId": "1de3aea3-5fef-4891-b8b0-faeb4e3b5543"
  }
}
```

## Example3 Querying the Command of Creating a Full Backup and an Incremental Transaction Log Backup

This example shows you how to obtain the full backup without recovery by this API when an incremental import of transaction logs is needed.\\n in the command means a line feed.

### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeBackupCommand
&BackupFileType=FULL_LOG
&DataBaseName=db1
&IsRecovery=NO
&LocalPath=E:/
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "Command": "declare @dbname varchar(100)\\n\\ndeclare @localtime varchar(20)\\n\\ndeclare @str varchar(8000)\\n\\nset @dbname='db1'\\n\\nset @localtime=replace(replace(replace(CONVERT(varchar, getdate(), 120 ),'-',''),' ',''),':','')\\n\\nset @str='BACKUP LOG [' + @dbname + '] TO DISK = N'E:/ + @dbname + '_' + @localtime + '_2log2_2reconvery2.bak'' WITH FORMAT, INIT'\\n\\nexec(@str)\\n\\ngo",
    "RequestId": "8d53700f-b80b-415a-8738-0c340eff2057"
  }
}
```

## 5. Developer Resources

## SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

## Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                    | Description  |
|-------------------------------|--------------|
| InvalidParameter.InputIllegal | Input error. |
|                               |              |



|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeBackupUploadSize

最近更新时间：2024-11-26 16:33:36

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the size of uploaded backup files. It is valid if the backup file type is `COS_UPLOAD` (the file is stored in COS).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name         | Required | Type   | Description                                                                                                                    |
|------------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action                 | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeBackupUploadSize.                                         |
| Version                | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region                 | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId             | Yes      | String | ID of imported target instance                                                                                                 |
| BackupMigrationId      | Yes      | String | Backup import task ID, which is returned through the API CreateBackupMigration                                                 |
| IncrementalMigrationId | No       | String | Incremental import task ID                                                                                                     |

### 3. Output Parameters

| Parameter Name         | Type                                         | Description                                                                                                                                                                                                                             |
|------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CosUploadBackupFileSet | Array of <a href="#">CosUploadBackupFile</a> | Information of uploaded backups                                                                                                                                                                                                         |
| RequestId              | String                                       | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the list of uploaded full backup files

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeBackupUploadSize
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-kpl74n9l
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "CosUploadBackupFileSet": [
      {
        "FileName": "db1.bak",
        "Size": 172032
      }
    ],
    "RequestId": "15455085-fe18-4c19-a463-5494451fb0f0"
  }
}
```

#### Example2 Querying the list of uploaded incremental backup files

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeBackupUploadSize
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&<common request parameters>
```

### Output Example

```
{
  "Response": {
    "CosUploadBackupFileSet": [
      {
        "FileName": "db_cvm_1_20200927204209_2log2_2noreconvery2.bak",
        "Size": 28672
      },
      {
        "FileName": "db_cvm_3_20200927204219_2log2_2noreconvery2.bak",
        "Size": 40960
      }
    ],
    "RequestId": "08218621-158d-49df-8366-dfa7958a1ffd"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                    | Description                                             |
|-----------------------------------------------|---------------------------------------------------------|
| InternalError.CosError                        | COS API error.                                          |
| InternalError.DBError                         | Database error                                          |
| InvalidParameter.ParamsAssertFailed           | An error occurred while converting parameter assertion. |
| InvalidParameterValue.CosPathError            | Wrong upload path.                                      |
| ResourceNotFound.FullBackupMigrationNotExist  | The full backup import task does not exist.             |
| ResourceNotFound.IncreBackupMigrationNotExist | The incremental backup import task does not exist.      |
| UnauthorizedOperation.PermissionDenied        | CAM authentication error.                               |

# DeleteIncrementalMigration

最近更新时间：2024-11-26 16:33:39

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to delete an incremental backup import task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name         | Required | Type   | Description                                                                                                                    |
|------------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action                 | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DeleteIncrementalMigration.                                       |
| Version                | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region                 | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId             | Yes      | String | Target instance ID.                                                                                                            |
| BackupMigrationId      | Yes      | String | Backup import task ID, which is returned through the <code>CreateBackupMigration</code> API                                    |
| IncrementalMigrationId | Yes      | String | Incremental backup import task ID, which is returned through the <code>CreateIncrementalMigration</code> API                   |

### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Deleting an incremental backup import task

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DeleteIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-67q4wy87
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "6ed62412-c476-4714-8042-241f50b2aedef"
  }
}
```

### 5. Developer Resources

#### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                    | Description                                             |
|-----------------------------------------------|---------------------------------------------------------|
| FailedOperation.MigrationLockError            | Locking the backup import task failed.                  |
| InternalError.DBError                         | Database error                                          |
| InvalidParameter.ParamsAssertFailed           | An error occurred while converting parameter assertion. |
| ResourceNotFound.IncreBackupMigrationNotExist | The incremental backup import task does not exist.      |
| ResourceUnavailable.CosStatusErr              | A wrong status of offline restoration tasks.            |
| UnauthorizedOperation.PermissionDenied        | CAM authentication error.                               |



# Data migration (DTS old version) related APIs

## CreateMigration

最近更新时间：2024-11-26 16:32:28

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create a migration task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                    |
|----------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: CreateMigration.                                                  |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| MigrateName    | Yes      | String  | Migration task name                                                                                                            |
| MigrateType    | Yes      | Integer | Migration type (1: structure migration, 2:                                                                                     |

|                 |     |                                                |                                                                                                                                                                                                                                                  |
|-----------------|-----|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |     |                                                | data migration, 3: incremental sync)                                                                                                                                                                                                             |
| SourceType      | Yes | Integer                                        | Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup restoration, 4: SQL Server backup restoration (in COS mode)                                                              |
| Source          | Yes | <a href="#">MigrateSource</a>                  | Migration source                                                                                                                                                                                                                                 |
| Target          | Yes | <a href="#">MigrateTarget</a>                  | Migration target                                                                                                                                                                                                                                 |
| MigrateDBSet.N  | No  | Array of <a href="#">MigrateDB</a>             | Database objects to be migrated. This parameter is not used for offline migration (SourceType=4 or SourceType=5)                                                                                                                                 |
| RenameRestore.N | No  | Array of <a href="#">RenameRestoreDatabase</a> | Restore and rename the databases listed in <code>RenameRestoreDatabase</code> . If this parameter is left empty, all restored databases will be renamed in the default format. This parameter takes effect only when <code>SourceType=5</code> . |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MigrateId      | Integer | Migration task ID                                                                                                                                                                                                                       |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating a migration task

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=CreateMigration
&MigrateName=Test API
&MigrateType=2
&SourceType=5
&Source.Url.0=http://gz-oncvm-1254065710.cosgz.myqcloud.com/testdb.bak
&Target.InstanceId=mssql-si2823jy1
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "MigrateId": 2728
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                       | Description                                             |
|--------------------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                          | Database error.                                         |
| FailedOperation.GcsError                         | The operation failed or the network timed out.          |
| InternalError                                    | Internal error.                                         |
| InternalError.CreateFlowFailed                   | Failed to create flow.                                  |
| InternalError.DBConnectError                     | Database connection error.                              |
| InternalError.SystemError                        | System error.                                           |
| InternalError.UnknownError                       | Unknown error.                                          |
| InvalidParameter                                 | Invalid parameter.                                      |
| InvalidParameter.InputIllegal                    | Input error.                                            |
| InvalidParameter.ParamsAssertFailed              | An error occurred while converting parameter assertion. |
| InvalidParameterValue.DBCharIllegal              | The database name contains invalid characters.          |
| InvalidParameterValue.DBExist                    | The database already exists.                            |
| InvalidParameterValue.MigrationNameIllegal       | The migration name contains invalid characters.         |
| InvalidParameterValue.OnCvmTypeNotSupported      | Basic edition instances are not supported.              |
| ResourceNotFound.InstanceNotFound                | The instance does not exist.                            |
| ResourceUnavailable.InstanceMigrateRegionIllegal | Invalid instance migration region.                      |
| ResourceUnavailable.InstanceMigrateStatusInvalid | Invalid instance migration status.                      |
| ResourceUnavailable.InstanceStatusInvalid        | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied           | CAM authentication error.                               |

# ModifyMigration

最近更新时间：2024-11-26 16:32:24

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify an existing migration task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                        |
|----------------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: ModifyMigration.                                                                      |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                           |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                     |
| MigrateId      | Yes      | Integer | Migration task ID                                                                                                                                  |
| MigrateName    | No       | String  | New name of migration task. If this parameter is left empty, no modification will be made                                                          |
| MigrateType    | No       | Integer | New migration type (1: structure migration, 2: data migration, 3: incremental sync). If this parameter is left empty, no modification will be made |

|                |    |                                    |                                                                                                                                                                                                                                                    |
|----------------|----|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SourceType     | No | Integer                            | Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup restoration, 4: SQL Server backup restoration (in COS mode). If this parameter is left empty, no modification will be made |
| Source         | No | <a href="#">MigrateSource</a>      | Migration source. If this parameter is left empty, no modification will be made                                                                                                                                                                    |
| Target         | No | <a href="#">MigrateTarget</a>      | Migration target. If this parameter is left empty, no modification will be made                                                                                                                                                                    |
| MigrateDBSet.N | No | Array of <a href="#">MigrateDB</a> | Database objects to be migrated. This parameter is not used for offline migration (SourceType=4 or SourceType=5). If it left empty, no modification will be made                                                                                   |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MigrateId      | Integer | Migration task ID                                                                                                                                                                                                                       |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Modifying a migration task

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyMigration
&MigrateId=2728
&MigrateName=Test API
&MigrateType=2
&SourceType=5
&Source.Url.0=http://gz-oncvm-1254065710.cosgz.myqcloud.com/testdb.bak
```

```
&Target.InstanceId=mssql-si2823jy1
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "MigrateId": 2728
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code              | Description     |
|-------------------------|-----------------|
| FailedOperation.DBError | Database error. |
| InternalError           | Internal error. |

|                                                  |                                                         |
|--------------------------------------------------|---------------------------------------------------------|
| InternalError.CreateFlowFailed                   | Failed to create flow.                                  |
| InternalError.DBConnectError                     | Database connection error.                              |
| InternalError.DBError                            | Database error                                          |
| InternalError.SystemError                        | System error.                                           |
| InternalError.UnknownError                       | Unknown error.                                          |
| InvalidParameter                                 | Invalid parameter.                                      |
| InvalidParameter.InputIllegal                    | Input error.                                            |
| InvalidParameter.ParamsAssertFailed              | An error occurred while converting parameter assertion. |
| InvalidParameterValue.MigrationNameIllegal       | The migration name contains invalid characters.         |
| ResourceNotFound.InstanceNotFound                | The instance does not exist.                            |
| ResourceUnavailable.InstanceMigrateRegionIllegal | Invalid instance migration region.                      |
| ResourceUnavailable.InstanceMigrateStatusInvalid | Invalid instance migration status.                      |
| ResourceUnavailable.InstanceStatusInvalid        | Invalid instance status.                                |
| UnauthorizedOperation.PermissionDenied           | CAM authentication error.                               |



# RunMigration

最近更新时间：2024-11-26 16:32:22

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to start running a migration task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                    |
|----------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: RunMigration.                                                     |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| MigrateId      | Yes      | Integer | Migration task ID                                                                                                              |

## 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|                |      |             |

|           |         |                                                                                                                                                                                                                                         |
|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId    | Integer | After the migration task starts, the flow ID will be returned                                                                                                                                                                           |
| RequestId | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Running a migration task

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=RunMigration
&MigrateId=2729
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba35",
    "FlowId": 30530
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| InternalError                          | Internal error.                                         |
| InternalError.DBError                  | Database error                                          |
| InternalError.SystemError              | System error.                                           |
| InternalError.UnknownError             | Unknown error.                                          |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| LimitExceeded.TooManyDB                | The database limit is exceeded.                         |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DeleteMigration

最近更新时间：2024-11-26 16:32:27

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to delete a migration task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                    |
|----------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DeleteMigration.                                                  |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| MigrateId      | Yes      | Integer | Migration task ID                                                                                                              |

## 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|                |      |             |

|           |        |                                                                                                                                                                                                                                         |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 4. Example

### Example1 Deleting a migration task

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DeleteMigration
&MigrateId=2729
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                       | Description                                             |
|--------------------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                          | Database error.                                         |
| InternalError                                    | Internal error.                                         |
| InternalError.DBError                            | Database error                                          |
| InternalError.SystemError                        | System error.                                           |
| InternalError.UnknownError                       | Unknown error.                                          |
| InvalidParameter                                 | Invalid parameter.                                      |
| InvalidParameter.InputIllegal                    | Input error.                                            |
| InvalidParameter.ParamsAssertFailed              | An error occurred while converting parameter assertion. |
| ResourceUnavailable.InstanceMigrateStatusInvalid | Invalid instance migration status.                      |
| UnauthorizedOperation.PermissionDenied           | CAM authentication error.                               |

# DescribeMigrationDetail

最近更新时间：2024-11-26 16:32:26

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query migration task details.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                    |
|----------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DescribeMigrationDetail.                                          |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| MigrateId      | Yes      | Integer | Migration task ID                                                                                                              |

## 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|----------------|------|-------------|

|              |                                    |                                                                                                                                                                                                                                         |
|--------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MigrateId    | Integer                            | Migration task ID                                                                                                                                                                                                                       |
| MigrateName  | String                             | Migration task name                                                                                                                                                                                                                     |
| AppId        | Integer                            | User ID of migration task                                                                                                                                                                                                               |
| Region       | String                             | Migration task region                                                                                                                                                                                                                   |
| SourceType   | Integer                            | Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup restoration, 4: SQL Server backup restoration (in COS mode)                                                     |
| CreateTime   | Timestamp                          | Migration task creation time                                                                                                                                                                                                            |
| StartTime    | Timestamp                          | Migration task start time                                                                                                                                                                                                               |
| EndTime      | Timestamp                          | Migration task end time                                                                                                                                                                                                                 |
| Status       | Integer                            | Migration task status (1: initializing, 4: migrating, 5: migration failed, 6: migration succeeded)                                                                                                                                      |
| Progress     | Integer                            | Migration task progress                                                                                                                                                                                                                 |
| MigrateType  | Integer                            | Migration type (1: structure migration, 2: data migration, 3: incremental sync)                                                                                                                                                         |
| Source       | <a href="#">MigrateSource</a>      | Migration source                                                                                                                                                                                                                        |
| Target       | <a href="#">MigrateTarget</a>      | Migration target                                                                                                                                                                                                                        |
| MigrateDBSet | Array of <a href="#">MigrateDB</a> | Database objects to be migrated. This parameter is not used for offline migration (SourceType=4 or SourceType=5)                                                                                                                        |
| RequestId    | String                             | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying migration task details

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeMigrationDetail
&MigrateId=2728
```



&<Common request parameters>

## Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "MigrateId": 2728,
    "MigrateName": "Test API",
    "AppId": 1254065710,
    "Region": "ap-guangzhou",
    "SourceType": 5,
    "CreateTime": "2018-08-06 17:44:58",
    "StartTime": "2020-09-22 00:00:00",
    "EndTime": "2020-09-22 00:00:00",
    "Status": 1,
    "Progress": 0,
    "MigrateType": 2,
    "Source": {
      "InstanceId": "",
      "CvmId": "",
      "VpcId": "",
      "SubnetId": "",
      "UserName": "",
      "Password": "",
      "Ip": "",
      "Port": 0,
      "Url": [
        "http://gz-oncvm-1254065710.cosgz.myqcloud.com/test4_20180724021516.bak",
        "http://gz-oncvm-1254065710.cosgz.myqcloud.com/testdb.bak"
      ]
    },
    "Target": {
      "UserName": "",
      "Password": ""
    },
    "MigrateDBSet": []
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| InternalError                          | Internal error.                                         |
| InternalError.DBError                  | Database error                                          |
| InternalError.SystemError              | System error.                                           |
| InternalError.UnknownError             | Unknown error.                                          |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeMigrations

最近更新时间：2024-11-26 16:32:25

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the list of eligible migration tasks based on the entered criteria.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type             | Description                                                                                                                    |
|----------------|----------|------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String           | <a href="#">Common Params</a> . The value used for this API: DescribeMigrations.                                               |
| Version        | Yes      | String           | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String           | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| StatusSet.N    | No       | Array of Integer | Status set. As long as a migration task is in a status therein, it will be listed                                              |
| MigrateName    | No       | String           | Migration task name (fuzzy match)                                                                                              |
| Limit          | No       | Integer          | Number of results per page. Value range: 1-100. Default value: 100                                                             |
| Offset         | No       | Integer          | Page number. Default value: 0                                                                                                  |

|             |    |        |                                                                                                     |
|-------------|----|--------|-----------------------------------------------------------------------------------------------------|
| OrderBy     | No | String | The query results are sorted by keyword. Valid values: name, createTime, startTime, endTime, status |
| OrderByType | No | String | Sorting order. Valid values: desc, asc                                                              |

### 3. Output Parameters

| Parameter Name | Type                                 | Description                                                                                                                                                                                                                             |
|----------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer                              | Total number of query results                                                                                                                                                                                                           |
| MigrateTaskSet | Array of <a href="#">MigrateTask</a> | List of query results                                                                                                                                                                                                                   |
| RequestId      | String                               | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the list of migration tasks

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeMigrations
&MigrateName=Test
&Limit=10
&Offset=0
&OrderBy=name
&OrderByType=desc
&StatusSet.0=1
&StatusSet.1=4
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "728ba95f-0443-41ec-82c9-44bc8bfc0802",
```

```
"TotalCount": 2,
"MigrateTaskSet": [
{
  "MigrateId": 2734,
  "MigrateName": "Test migration",
  "AppId": 1251006373,
  "Region": "ap-guangzhou",
  "SourceType": 5,
  "CreateTime": "2018-08-09 11:46:15",
  "StartTime": "0000-00-00 00:00:00",
  "EndTime": "0000-00-00 00:00:00",
  "Status": 1,
  "Message": "",
  "CheckFlag": 0,
  "Progress": 0,
  "MigrateDetail": {
    "StepName": "",
    "Progress": 0
  }
},
{
  "MigrateId": 2732,
  "MigrateName": "Test API",
  "AppId": 1251006373,
  "Region": "ap-guangzhou",
  "SourceType": 5,
  "CreateTime": "2018-08-08 21:03:09",
  "StartTime": "0000-00-00 00:00:00",
  "EndTime": "0000-00-00 00:00:00",
  "Status": 1,
  "Message": "",
  "CheckFlag": 0,
  "Progress": 0,
  "MigrateDetail": {
    "StepName": "",
    "Progress": 0
  }
}
]
```

## 5. Developer Resources

## SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| InternalServerError                    | Internal error.                                         |
| InternalServerError.DBError            | Database error                                          |
| InternalServerError.SystemError        | System error.                                           |
| InternalServerError.UnknownError       | Unknown error.                                          |
| InvalidParameter                       | Invalid parameter.                                      |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# SQL Server Integration Services (SSIS) related APIs

## CreateBusinessDBInstances

最近更新时间：2024-11-26 16:33:11

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create business intelligence service instances (cloud disk).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                                         |
|----------------|----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: CreateBusinessDBInstances.                                                             |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                            |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                      |
| Zone           | Yes      | String | Instance AZ, such as ap-guangzhou-1 (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the <code>DescribeZones</code> API. |

|                     |     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory              | Yes | Integer          | Instance memory size in GB                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage             | Yes | Integer          | Instance disk size in GB                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cpu                 | Yes | Integer          | The number of CPU cores of the instance you want to purchase.                                                                                                                                                                                                                                                                                                                                                                                                         |
| MachineType         | Yes | String           | The host type of purchased instance. Valid values: <code>CLOUD_PREMIUM</code> (virtual machine with premium cloud disk), <code>CLOUD_SSD</code> (virtual machine with SSD).                                                                                                                                                                                                                                                                                           |
| ProjectId           | No  | Integer          | Project ID                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GoodsNum            | No  | Integer          | Number of instances purchased this time. Default value: <code>1</code> .                                                                                                                                                                                                                                                                                                                                                                                              |
| SubnetId            | No  | String           | VPC subnet ID in the format of subnet-bdoe83fa. Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                                                                                                                                                                                                                                                           |
| VpcId               | No  | String           | VPC ID in the format of vpc-dsp338hz. Both <code>SubnetId</code> and <code>VpcId</code> need to be set or unset at the same time.                                                                                                                                                                                                                                                                                                                                     |
| DBVersion           | No  | String           | – Supported versions of business intelligence server. Valid values: <code>201603</code> (SQL Server 2016 Integration Services), <code>201703</code> (SQL Server 2017 Integration Services), <code>201903</code> (SQL Server 2019 Integration Services). Default value: <code>201903</code> . As the purchasable versions are region-specific, you can use the <code>DescribeProductConfig</code> API to query the information of purchasable versions in each region. |
| SecurityGroupList.N | No  | Array of String  | Security group list, which contains security group IDs in the format of sg-xxx.                                                                                                                                                                                                                                                                                                                                                                                       |
| Weekly.N            | No  | Array of Integer | Configuration of the maintenance window, which specifies the day of the week when maintenance can be performed. Valid values: <code>1</code> (Monday), <code>2</code> (Tuesday), <code>3</code> (Wednesday), <code>4</code> (Thursday), <code>5</code> (Friday), <code>6</code> (Saturday), <code>7</code> (Sunday).                                                                                                                                                  |
| StartTime           | No  | String           | Configuration of the maintenance window, which specifies the start time of daily maintenance.                                                                                                                                                                                                                                                                                                                                                                         |



|                |    |                                      |                                                                                             |
|----------------|----|--------------------------------------|---------------------------------------------------------------------------------------------|
| Span           | No | Integer                              | Configuration of the maintenance window, which specifies the maintenance duration in hours. |
| ResourceTags.N | No | Array of <a href="#">ResourceTag</a> | Tags associated with the instances to be created                                            |

### 3. Output Parameters

| Parameter Name | Type            | Description                                                                                                                                                                                                                             |
|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DealName       | String          | Order name                                                                                                                                                                                                                              |
| FlowId         | Integer         | Process ID Note: This field may return null, indicating that no valid values can be obtained.                                                                                                                                           |
| InstancelIdSet | Array of String | IDs of instances Note: This field may return null, indicating that no valid values can be obtained.                                                                                                                                     |
| RequestId      | String          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating a business intelligence service instance

This example shows you how to create a business intelligence service instance.

##### Input Example

```
POST / HTTP/1.1Host: sqlserver.intl.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreateBusinessDBInstances<common request parameters>{ "Storage": 50, "Cpu": 1, "Zone": "ap-guangzhou-1", "Memory": 2, "ProjectId": 1, "GoodsNum": 1, "SubnetId": "subnet-xxxx", "VpcId": "vpc-xxxxxx", "DBVersion": "201703", "StartTime": "01:34", "Span": 4, "MachineType": "CLOUD_PREMIUM", "Weekly": [ 1, 5 ]}
```

##### Output Example

```
{
  "Response": {
    "DealName": "20200318114212",
    "RequestId": "2b6f7e2a-e909-4753-84b7-0db3e6099877",
    "FlowId": 100439,
    "InstanceIdSet": [
      "mssqlbi-sdjiej23"
    ]
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                        | Description             |
|-----------------------------------|-------------------------|
| FailedOperation.CreateOrderFailed | Failed to create order. |
| FailedOperation.DBError           | Database error.         |
|                                   |                         |

|                                               |                                                         |
|-----------------------------------------------|---------------------------------------------------------|
| FailedOperation.GetVpcFailed                  | Failed to get VPC information.                          |
| InternalError.DBError                         | Database error                                          |
| InternalError.UnknownError                    | Unknown error.                                          |
| InvalidParameter.InputIllegal                 | Input error.                                            |
| InvalidParameter.ParamsAssertFailed           | An error occurred while converting parameter assertion. |
| InvalidParameter.PayOrderFailed               | Failed to make order payment.                           |
| InvalidParameterValue.IllegalRegion           | Invalid region.                                         |
| InvalidParameterValue.IllegalSpec             | Incorrect instance specification information.           |
| InvalidParameterValue.IllegalZone             | Incorrect AZ ID.                                        |
| InvalidParameterValue.SecurityGroupIdsIllegal | Invalid security group ID.                              |
| ResourceNotFound.VpcNotExist                  | The VPC does not exist.                                 |
| ResourceUnavailable.VpcNotExist               | VPC not found.                                          |
| UnauthorizedOperation.PermissionDenied        | CAM authentication error.                               |

# OpenInterCommunication

最近更新时间：2024-11-26 16:33:06

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to enable instance interconnection, which can interconnect business intelligence services.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name  | Required | Type            | Description                                                                                                                    |
|-----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action          | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: OpenInterCommunication.                                           |
| Version         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region          | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceldSet.N | Yes      | Array of String | IDs of instances with interworking group enabled                                                                               |

## 3. Output Parameters

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

| Parameter Name       | Type                                       | Description                                                                                                                                                                                                                             |
|----------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| InterInstanceFlowSet | Array of <a href="#">InterInstanceFlow</a> | IDs of instance and async task                                                                                                                                                                                                          |
| RequestId            | String                                     | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Adding an instance to the interworking group

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: OpenInterCommunication
<Common request parameters>

{
  "InstanceIdSet": [
    "mssql-hlh6yka1",
    "mssql-gfh54fg2"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "InterInstanceFlowSet": [
      {
        "FlowId": 0,
        "InstanceId": "mssql-hlh6yka1"
      },
      {
        "FlowId": 1253,
        "InstanceId": "mssql-gfh54fg2"
      }
    ],
    "RequestId": "fc3376a3-4585-4442-87cd-6076d3b510bc"
  }
}
```

```
}  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description               |
|-------------------------------------------|---------------------------|
| FailedOperation.DBError                   | Database error.           |
| InternalServerError.SystemError           | System error.             |
| InvalidParameter.InputIllegal             | Input error.              |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.  |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error. |

# CreateBusinessIntelligenceFile

最近更新时间：2024-11-26 16:33:10

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to add a business intelligence service file.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: CreateBusinessIntelligenceFile.                                   |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Instance ID                                                                                                                    |
| FileURL        | Yes      | String |                                                                                                                                |
| FileType       | Yes      | String | File type. Valid values: <code>FLAT</code> (flat file as data source), <code>SSIS</code> (.ispac SSIS package file)            |
| Remark         | No       | String | Remarks                                                                                                                        |

### 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FileTaskId     | String | File name                                                                                                                                                                                                                               |
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Creating a business intelligence flat file

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateBusinessIntelligenceFile
<Common request parameters>

{
  "Remark": "aa",
  "FileURL": "http://xxxxxxx.cos.ap-guangzhou.myqcloud.com/test.xlsx",
  "InstanceId": "mssqlbi-fo2dwujt",
  "FileType": "FLAT"
}
```

##### Output Example

```
{
  "Response": {
    "FileTaskId": "test.xlsx",
    "RequestId": "9f36fb2e-ae6b-4d18-b1b3-a79111ce4b33"
  }
}
```

### 5. Developer Resources



## SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

# 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                  |
|----------------------------------------|------------------------------|
| FailedOperation.DBError                | Database error.              |
| InternalServerError.SystemError        | System error.                |
| InvalidParameter.InputIllegal          | Input error.                 |
| ResourceNotFound.InstanceNotFound      | The instance does not exist. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.    |

# DescribeBusinessIntelligenceFile

最近更新时间：2024-11-26 16:33:08

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the files required by business intelligence service.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type             | Description                                                                                                                                                                                 |
|----------------|----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String           | <a href="#">Common Params</a> . The value used for this API: DescribeBusinessIntelligenceFile.                                                                                              |
| Version        | Yes      | String           | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                    |
| Region         | Yes      | String           | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.                                                              |
| InstanceId     | Yes      | String           | Instance ID                                                                                                                                                                                 |
| FileName       | No       | String           | File name                                                                                                                                                                                   |
| StatusSet.N    | No       | Array of Integer | Migration task status set. Valid values: <code>1</code> (Initialize to be deployed), <code>2</code> (Deploying), <code>3</code> (Deployment successful), <code>4</code> (Deployment failed) |
| FileType       | No       | String           | File type. Valid values: <code>FLAT</code> (flat files), <code>SSIS</code> (project file                                                                                                    |

|             |    |         |                                                                                                            |
|-------------|----|---------|------------------------------------------------------------------------------------------------------------|
|             |    |         | for business intelligence service).                                                                        |
| Limit       | No | Integer | The maximum number of results returned per page. Value range: 1–100.                                       |
| Offset      | No | Integer | Page number. Default value: 0 .                                                                            |
| OrderBy     | No | String  | Sorting field. Valid values: <code>file_name</code> , <code>create_time</code> , <code>start_time</code> . |
| OrderByType | No | String  | Sorting order: Valid values: <code>desc</code> , <code>asc</code> .                                        |

### 3. Output Parameters

| Parameter Name     | Type                                              | Description                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount         | Integer                                           | Total number of file deployment tasks                                                                                                                                                                                                   |
| BackupMigrationSet | Array of <a href="#">BusinessIntelligenceFile</a> | File deployment task set                                                                                                                                                                                                                |
| RequestId          | String                                            | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the files required by business intelligence service

##### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBusinessIntelligenceFile
<Common request parameters>

{
  "Offset": 0,
  "Limit": 10,
```

```
"OrderByType": "desc",
"OrderBy": "create_time",
"InstanceId": "mssqlbi-fo2dwujt",
"FileName": "test",
"FileType": "FLAT",
"StatusSet": [
1
]
}
```

## Output Example

```
{
  "Response": {
    "BackupMigrationSet": [
      {
        "Action": {
          "AllAction": [
            "view",
            "remark",
            "delete"
          ],
          "AllowedAction": [
            "view",
            "remark",
            "delete"
          ]
        },
        "CreateTime": "2022-08-05 14:14:17",
        "EndTime": "0000-00-00 00:00:00",
        "FileMd5": "",
        "FileName": "test.xlsx",
        "FilePath": "D:\\\\SSIS\\",
        "FileSize": 0,
        "FileType": "FLAT",
        "FileURL": "http://sqlserver-gz-test-1251966477.cos.ap-guangzhou.myqcloud.com/test.xlsx",
        "InstanceId": "mssqlbi-fo2dwujt",
        "Message": "",
        "Remark": "Remark",
        "StartTime": "0000-00-00 00:00:00",
        "Status": 1
      }
    ],
    "RequestId": "13903852-75f7-4977-9965-aa4babeadb5",
    "TotalCount": 1
  }
}
```

```
}  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                  |
|----------------------------------------|------------------------------|
| FailedOperation.DBError                | Database error.              |
| InternalServerError.SystemError        | System error.                |
| InvalidParameter.InputIllegal          | Input error.                 |
| ResourceNotFound.InstanceNotFound      | The instance does not exist. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.    |

# DeleteBusinessIntelligenceFile

最近更新时间：2024-11-26 16:33:09

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to delete a business intelligence service file.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                    |
|----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: DeleteBusinessIntelligenceFile.                                   |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String          | Instance ID                                                                                                                    |
| FileNameSet.N  | Yes      | Array of String | File name set                                                                                                                  |

## 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Deleting a business intelligence flat file

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteBusinessIntelligenceFile
<Common request parameters>

{
  "InstanceId": "mssqlbi-fo2dwujt",
  "FileNameSet": [
    "test.xlsx"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "b2231cb2-9415-46af-b48f-bab65e06b091"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                  |
|----------------------------------------|------------------------------|
| FailedOperation.DBError                | Database error.              |
| InternalServerError.SystemError        | System error.                |
| InvalidParameter.InputIllegal          | Input error.                 |
| ResourceNotFound.InstanceNotFound      | The instance does not exist. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.    |



# CloseInterCommunication

最近更新时间：2024-11-26 16:33:12

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to disable instance interconnection.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name   | Required | Type            | Description                                                                                                                    |
|------------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action           | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: CloseInterCommunication.                                          |
| Version          | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region           | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceIdsSet.N | Yes      | Array of String | IDs of instances with interconnection disabled                                                                                 |

## 3. Output Parameters

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

| Parameter Name       | Type                                       | Description                                                                                                                                                                                                                             |
|----------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| InterInstanceFlowSet | Array of <a href="#">InterInstanceFlow</a> | IDs of instance and async task                                                                                                                                                                                                          |
| RequestId            | String                                     | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Removing an instance from an interworking group

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CloseInterCommunication
<Common request parameters>

{
  "InstanceIdSet": [
    "mssql-hlh6yka1",
    "mssql-gfh54fg2"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "Response": {
      {
        "FlowId": 0,
        "InstanceId": "mssql-hlh6yka1"
      },
      {
        "FlowId": 1253,
        "InstanceId": "mssql-gfh54fg2"
      }
    ],
    "RequestId": "fc3376a3-4585-4442-87cd-6076d3b510bc"
  }
}
```

```
}  
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                | Description               |
|-------------------------------------------|---------------------------|
| FailedOperation.DBError                   | Database error.           |
| InternalError.SystemError                 | System error.             |
| InvalidParameter.InputIllegal             | Input error.              |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.  |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error. |

# DescribeDBInstanceInter

最近更新时间：2025-08-07 11:38:22

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the information of the interconnected instances.

A maximum of 30 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: DescribeDBInstanceInter.                                                                                                                                                                                                                                                                                                                 |
| Version        | Yes      | String  | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                                                                                                                                                                                                                                                                                              |
| Region         | Yes      | String  | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo. |
| Limit          | Yes      | Integer | The maximum number of results returned per page. Value range: 1-100.                                                                                                                                                                                                                                                                                                                                  |
|                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                       |

|              |    |                 |                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instanceld   | No | String          | Filter by instance ID.                                                                                                                                                                                                                                                                                                                                          |
| Status       | No | Integer         | Filter by status. Valid values: <b>1</b> (Enabling interworking IP), <b>2</b> (Enabled interworking IP), <b>3</b> (Adding to interworking group), <b>4</b> (Added to interworking group), <b>5</b> (Reclaiming interworking IP), <b>6</b> (Reclaimed interworking IP), <b>7</b> (Removing from interworking group), <b>8</b> (Removed from interworking group). |
| VersionSet.N | No | Array of String | The list of instance version numbers.                                                                                                                                                                                                                                                                                                                           |
| Zone         | No | String          | Instance AZ ID in the format of ap-guangzhou-3.                                                                                                                                                                                                                                                                                                                 |
| Offset       | No | Integer         | Page number. Default value: <b>0</b> .                                                                                                                                                                                                                                                                                                                          |

### 3. Output Parameters

| Parameter Name   | Type                                   | Description                                                                                                                                                                                                                             |
|------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount       | Integer                                | Number of records returned.                                                                                                                                                                                                             |
| InterInstanceSet | Array of <a href="#">InterInstance</a> | Details of instance in the interworking group.                                                                                                                                                                                          |
| RequestId        | String                                 | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the status of an instance in the interworking group

This example shows you how to query the status of an instance in the interworking group. The interworking private IP is used in SSIS service.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDBInstanceInter
<Common request parameters>

{
  "Offset": 0,
  "Limit": 20,
  "InstanceId": "mssqlbi-q1atet3b"
}
```

### Output Example

```
{
  "Response": {
    "InterInstanceSet": [
      {
        "InstanceId": "mssql-30vft2ix",
        "InterPort": 1028,
        "InterVip": "192.168.0.1",
        "Name": "andy",
        "Region": "ap-guangzhou",
        "Status": 1,
        "Version": "2012SP3",
        "VersionName": "SQL Server 2012 Enterprise",
        "Vip": "192.168.0.2",
        "Vport": 1433,
        "Zone": "ap-guangzhou-3"
      },
      {
        "InstanceId": "mssql-iqnuxv3j",
        "InterPort": 1026,
        "InterVip": "192.168.0.1",
        "Name": "tom",
        "Region": "ap-guangzhou",
        "Status": 1,
        "Version": "2017",
        "VersionName": "SQL Server 2017 Enterprise",
        "Vip": "192.168.0.2",
        "Vport": 1433,
        "Zone": "ap-guangzhou-3"
      },
      {
        "InstanceId": "mssql-ngc67861",
```

```
"InterPort": 1029,
"InterVip": "192.168.0.1",
"Name": "andy2",
"Region": "ap-guangzhou",
"Status": 1,
"Version": "2008R2",
"VersionName": "SQL Server 2008 Enterprise",
"Vip": "192.168.0.2",
"Vport": 1433,
"Zone": "ap-guangzhou-3"
},
{
  "RequestId": "ff9c5a56-1d33-4707-b656-a715240635ad",
  "TotalCount": 3
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

|  |  |
|--|--|
|  |  |
|--|--|

| Error Code                             | Description               |
|----------------------------------------|---------------------------|
| FailedOperation.DBError                | Database error.           |
| InternalError.SystemError              | System error.             |
| InvalidParameter.InputIllegal          | Input error.              |
| UnauthorizedOperation.PermissionDenied | CAM authentication error. |



# Making API Requests

## Request Structure

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### 1. Service Address

The API supports access from either a nearby region (at `sqlserver.intl.tencentcloudapi.com`) or a specified region (at `sqlserver.ap-guangzhou.tencentcloudapi.com` for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "`sqlserver.ap-guangzhou.tencentcloudapi.com`".

**Note:** For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

| Hosted region                                                                | Domain name                                             |
|------------------------------------------------------------------------------|---------------------------------------------------------|
| Local access region (recommended, only for non-financial availability zones) | <code>sqlserver.intl.tencentcloudapi.com</code>         |
| South China (Guangzhou)                                                      | <code>sqlserver.ap-guangzhou.tencentcloudapi.com</code> |
| East China (Shanghai)                                                        | <code>sqlserver.ap-shanghai.tencentcloudapi.com</code>  |
| East China (Nanjing)                                                         | <code>sqlserver.ap-nanjing.tencentcloudapi.com</code>   |
| North China (Beijing)                                                        | <code>sqlserver.ap-beijing.tencentcloudapi.com</code>   |
| Southwest China (Chengdu)                                                    | <code>sqlserver.ap-chengdu.tencentcloudapi.com</code>   |
| Southwest China (Chongqing)                                                  | <code>sqlserver.ap-chongqing.tencentcloudapi.com</code> |
|                                                                              |                                                         |

|                                             |                                                    |
|---------------------------------------------|----------------------------------------------------|
| Hong Kong, Macao, Taiwan (Hong Kong, China) | sqlserver.ap-<br>hongkong.tencentcloudapi.com      |
| Southeast Asia (Singapore)                  | sqlserver.ap-<br>singapore.tencentcloudapi.com     |
| Southeast Asia (Jakarta)                    | sqlserver.ap-<br>jakarta.tencentcloudapi.com       |
| Southeast Asia (Bangkok)                    | sqlserver.ap-<br>bangkok.tencentcloudapi.com       |
| Northeast Asia (Seoul)                      | sqlserver.ap-<br>seoul.tencentcloudapi.com         |
| Northeast Asia (Tokyo)                      | sqlserver.ap-<br>tokyo.tencentcloudapi.com         |
| U.S. East Coast (Virginia)                  | sqlserver.na-<br>ashburn.tencentcloudapi.com       |
| U.S. West Coast (Silicon Valley)            | sqlserver.na-<br>siliconvalley.tencentcloudapi.com |
| South America (São Paulo)                   | sqlserver.sa-<br>saopaulo.tencentcloudapi.com      |
| Europe (Frankfurt)                          | sqlserver.eu-<br>frankfurt.tencentcloudapi.com     |

**Note:** As financial availability zones and non-financial availability zones are isolated, when accessing the services in a financial availability zone (with the common parameter `Region` specifying a financial availability zone), it is necessary to specify a domain name of the financial availability zone, preferably in the same region as specified in `Region`.

| Access region for financial availability zone | Domain name for financial availability zone   |
|-----------------------------------------------|-----------------------------------------------|
| East China (Shanghai Finance)                 | sqlserver.ap-shanghai-fsi.tencentcloudapi.com |
| South China (Shenzhen Finance)                | sqlserver.ap-shenzhen-fsi.tencentcloudapi.com |

## 2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

### 3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

### 4. Character Encoding

Only UTF-8 encoding is used.

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The exact contents of the common parameters will vary depending on the version of the signature method you use.

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

| Parameter Name | Type    | Required | Description                                                                                                                                                                                                                                                                                                                                                                        |
|----------------|---------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-TC-Action    | String  | Yes      | The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameter documentation. For example, the API for querying the CVM instances is <code>DescribeInstances</code> .                                                                                                                   |
| X-TC-Region    | String  | Yes      | Region parameter, which is used to identify the region to which the request work with belongs. For values supported for an API, see the description of parameter <code>Region</code> in the input parameters in related API documentation. The parameter is not required for some APIs (which will be indicated in the documentation), and will not take effect even it is passed. |
| X-TC-Timestamp | Integer | Yes      | The current UNIX timestamp that records the time when the API request is sent, for example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error will be returned.                                                                                                                               |
| X-TC-Version   | String  | Yes      | API version of the action. For the valid values, see the description of input parameter <code>Version</code> in the API documentation. For example, the CVM is 2017-03-12.                                                                                                                                                                                                         |
| Authorization  | String  | Yes      | The HTTP authentication request header, for example:<br>TC3-HMAC-SHA256 Credential=AKID*****/Date/service/tc3_request/SignedHeaders=content-type;host,<br>Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc<br>Here:<br>– TC3-HMAC-SHA256: Signature method, currently fixed as this                                                                                       |

|            |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|--------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |        |    | <ul style="list-style-type: none"> <li>– Credential: Signature credential; AKID***** is the SecretId; Dt is time, and this value must match the value of X-TC-Timestamp (a value in UTC time format; service is the name of the product/service, a domain name prefix. For example, a domain name cvm.tencentcloud.com the CVM product and the value would be cvm;</li> <li>– SignedHeaders: The headers that contains the authentication information and host are the required headers;</li> <li>– Signature: Signature digest.</li> </ul> |
| X-TC-Token | String | No | The token used for a temporary certificate. It must be used with a long-term key to obtain the temporary key and token by calling a CAM API. No long-term key.                                                                                                                                                                                                                                                                                                                                                                              |

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

The following example shows you how to structure an HTTP POST (application/json) request:

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

--58731222010402
Content-Disposition: form-data; name="Offset"

0
--58731222010402
Content-Disposition: form-data; name="Limit"

10
--58731222010402--
```

## Common parameters for Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

| Parameter Name | Type   | Required | Description                                                                                                                                                                                                                                                                                                                                           |
|----------------|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | String | Yes      | The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .                                                                  |
| Region         | String | Yes      | Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API |

|                 |         |     |                                                                                                                                                                                                                                                 |
|-----------------|---------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |         |     | documentation), and will not take effect even if it is passed.                                                                                                                                                                                  |
| Timestamp       | Integer | Yes | The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.             |
| Nonce           | Integer | Yes | A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.                                                                                                                                                     |
| SecretId        | String  | Yes | The identifying SecretId obtained on the <a href="#">Cloud API Key</a> page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).                                                          |
| Signature       | String  | Yes | Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.                            |
| Version         | String  | Yes | API version of the action. For the valid values, see the description of the common input parameter <code>Version</code> in the API documentation. For example, the version of CVM is 2017-03-12.                                                |
| SignatureMethod | String  | No  | Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1. |
| Token           | String  | No  | The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.                                                    |

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
```

```
Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

```
https://cvm.tencentcloudapi.com/

Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded

Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=
1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bb224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
****
```

## Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

| Region                                             | Value           |
|----------------------------------------------------|-----------------|
| Southeast Asia (Bangkok)                           | ap-bangkok      |
| North China (Beijing)                              | ap-beijing      |
| Southwest China (Chengdu)                          | ap-chengdu      |
| Southwest China (Chongqing)                        | ap-chongqing    |
| South China (Guangzhou)                            | ap-guangzhou    |
| Hong Kong/Macao/Taiwan (China) (Hong Kong (China)) | ap-hongkong     |
| Southeast Asia (Jakarta)                           | ap-jakarta      |
| East China (Nanjing)                               | ap-nanjing      |
| Northeast Asia (Seoul)                             | ap-seoul        |
| East China (Shanghai)                              | ap-shanghai     |
| East China (Shanghai Finance)                      | ap-shanghai-fsi |
| South China (Shenzhen Finance)                     | ap-shenzhen-fsi |



|                            |                  |
|----------------------------|------------------|
| Southeast Asia (Singapore) | ap-singapore     |
| Northeast Asia (Tokyo)     | ap-tokyo         |
| Europe (Frankfurt)         | eu-frankfurt     |
| East US (Virginia)         | na-ashburn       |
| West US (Silicon Valley)   | na-siliconvalley |
| South America (São Paulo)  | sa-saopaulo      |

# Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

## Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) console page.
3. On the [TencentCloud API Key](#) page, click **Create** to create a SecretId/SecretKey pair.

## Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including [Python](#), [Java](#), [PHP](#), [Go](#), [NodeJS](#) and [.NET](#). In addition, it provides [API Explorer](#) which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

## TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats, Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKID*****` and `*****`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

## 1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

| Field Name           | Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HTTPRequestMethod    | HTTP request method (GET or POST). This example uses <code>POST</code> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CanonicalURI         | URI parameter. Slash ("/") is used for API 3.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CanonicalQueryString | <p>The query string in the URL of the originating HTTP request. This is always an empty string "" for POST requests, and is the string after the question mark (?) for GET requests. For example: Limit=10&amp;Offset=0.</p> <p>Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing <a href="#">RFC3986</a> UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CanonicalHeaders     | <p>Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code> . Custom headers can be added to participate in signature process to improve the uniqueness and security of the request.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"><li>Both the key and value of the header should be converted to lowercase with leading and trailing spaces removed, so they are concatenated in the format key:value\n format;</li><li>If there are multiple headers, they should be sorted in ASCII ascending order of the header keys (lowercase).</li></ol> <p>The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code> .</p> <p>Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating that signature verification failed.</p> |
| SignedHeaders        | <p>Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to a header in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"><li>Both the key and value of the header should be converted to lowercase;</li><li>If there are multiple headers, they should be sorted in ASCII ascending order of the header keys (lowercase) and separated by semicolons (;).</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | The value in this example is <code>content-type;host</code>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| HashedRequestPayload | Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}</code> this example). The pseudocode for calculation is <code>Lowercase(HexEncode(Hash.SHA256(RequestPayload)))</code> by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, <code>RequestPayload</code> is always an empty string. The calculation result in this example is <code>99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4</code> |

According to the rules above, the `CanonicalRequest` string obtained in the example is as follows:

```
POST
/

content-type:application/json; charset=utf-8
host:cvm.tencentcloudapi.com

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

## 2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

```
StringToSign =
Algorithm + \n +
RequestTimestamp + \n +
CredentialScope + \n +
HashedCanonicalRequest
```

| Field Name       | Explanation                                                                                                                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Algorithm        | Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .                                                                                                                                                                       |
| RequestTimestamp | Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in the request header, which is the UNIX timestamp of the current time in seconds such as <code>1551113065</code> in this example.                           |
| CredentialScope  | Scope of the credential in the format of <code>Date/service/tc3_request</code> , including the date, requested service and termination string (tc3_request). <b>Date</b> is a UTC time, whose value should match the UTC date converted by the comm |

|                        |                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | parameter <code>X-TC-Timestamp</code> ; <code>service</code> is the product name, which should match the domain name of the product called. The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .                                                           |
| HashedCanonicalRequest | Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is<br>Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))). The calculation result in this example is<br><code>2815843035062fffd5fd6f2a44ea8a34818b0dc46f024b8b3786976a3a</code> |

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffd5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

### 3. Calculating the Signature

1. Calculate the derived signature key with the following pseudocode:

```
SecretKey = "*****"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

| Field Name | Explanation                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------|
| SecretKey  | The original SecretKey, i.e., <code>*****</code> .                                                       |
| Date       | The Date field information in <code>Credential</code> , such as <code>2019-02-25</code> in this example. |
| Service    | Value in the Service field in <code>Credential</code> , such as <code>cvm</code> in this example.        |

2. Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

#### 4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =  
Algorithm + ' ' +  
'Credential=' + SecretId + '/' + CredentialScope + ', ' +  
'SignedHeaders=' + SignedHeaders + ', ' +  
'Signature=' + Signature
```

| Field Name      | Explanation                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Algorithm       | Signature algorithm, which is always <code>TC3-HMAC-SHA256</code> .                                                                        |
| SecretId        | The SecretId in the key pair, i.e., <code>AKID*****</code> .                                                                               |
| CredentialScope | Credential scope (see above). The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .                          |
| SignedHeaders   | Header information for signature calculation (see above), such as <code>content-type;host</code> in this example.                          |
| Signature       | Signature value. The calculation result in this example is <code>a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2</code> . |

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

## 5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?`

`Action=DescribeInstances&InstanceId.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGel%3D&Timestamp=1465185768&Version=2017-03-12.`

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId



and `SecretKey` in the example with your real credentials and use the current time of the system as the `Timestamp`.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

## Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPITC3Demo {
    private final static Charset UTF8 = StandardCharsets.UTF_8;
    private final static String SECRET_ID = "AKID*****";
    private final static String SECRET_KEY = "*****";
    private final static String CT_JSON = "application/json; charset=utf-8";

    public static byte[] hmac256(byte[] key, String msg) throws Exception {
        Mac mac = Mac.getInstance("HmacSHA256");
        SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
        mac.init(secretKeySpec);
        return mac.doFinal(msg.getBytes(UTF8));
    }

    public static String sha256Hex(String s) throws Exception {
        MessageDigest md = MessageDigest.getInstance("SHA-256");
        byte[] d = md.digest(s.getBytes(UTF8));
        return DatatypeConverter.printHexBinary(d).toLowerCase();
    }

    public static void main(String[] args) throws Exception {
        String service = "cvm";
        String host = "cvm.tencentcloudapi.com";
    }
}
```

```

String region = "ap-guangzhou";
String action = "DescribeInstances";
String version = "2017-03-12";
String algorithm = "TC3-HMAC-SHA256";
String timestamp = "1551113065";
//String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
// Pay attention to the time zone; otherwise, errors may occur
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

// ***** Step 1: Concatenate the CanonicalRequest string *****
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + host + "\n";
String signedHeaders = "content-type;host";

String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ***** Step 2: Concatenate the string to sign *****
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ***** Step 3: Calculate the signature *****
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, stringToSign)).toLowerCase();
System.out.println(signature);

// ***** Step 4: Concatenate the Authorization *****
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);

```

```
TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
.append(" -H \"Authorization: ").append(authorization).append("\")")
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\")")
.append(" -H \"X-TC-Action: ").append(action).append("\")")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\")")
.append(" -H \"X-TC-Version: ").append(version).append("\")")
.append(" -H \"X-TC-Region: ").append(region).append("\")")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
```

## Python

```
# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKID*****"
secret_key = "*****"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

```
# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
canonical_querystring + "\n" +
canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexdigest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)

# ***** Step 3: Calculate the Signature *****
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha256).hexdigest()
print(signature)

# ***** Step 4: Concatenate the Authorization *****
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)
```

```
print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '" '
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + host + '" '
+ ' -H "X-TC-Action: ' + action + '" '
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '" '
+ ' -H "X-TC-Version: ' + version + '" '
+ ' -H "X-TC-Region: ' + region + '" '
+ " -d '" + payload + '"')
```

## Golang

```
package main

import (
    "crypto/hmac"
    "crypto/sha256"
    "encoding/hex"
    "fmt"
    "time"
)

func sha256hex(s string) string {
    b := sha256.Sum256([]byte(s))
    return hex.EncodeToString(b[:])
}

func hmacsha256(s, key string) string {
    hashed := hmac.New(sha256.New, []byte(key))
    hashed.Write([]byte(s))
    return string(hashed.Sum(nil))
}

func main() {
    secretId := "AKID*****"
    secretKey := "*****"
    host := "cvm.tencentcloudapi.com"
    algorithm := "TC3-HMAC-SHA256"
    service := "cvm"
    version := "2017-03-12"
    action := "DescribeInstances"
    region := "ap-guangzhou"
    //var timestamp int64 = time.Now().Unix()
    var timestamp int64 = 1551113065

    // step 1: build canonical request string
```

```
httpRequestMethod := "POST"
canonicalURI := "/"
canonicalQueryString := ""
canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
host + "\n"
signedHeaders := "content-type;host"
payload := `{ "Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}`
hashedRequestPayload := sha256hex(payload)
canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
httpRequestMethod,
canonicalURI,
canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)

// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)

// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)

// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%
s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)

curl := fmt.Sprintf(`curl -X POST https://%s\`
```

```

-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s', host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}

```

## PHP

```

<?php
$secretId = "AKID*****";
$secretKey = "*****";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod. "\n"
.$canonicalUri. "\n"
.$canonicalQueryString. "\n"
.$canonicalHeaders. "\n"
.$signedHeaders. "\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date. "/" . $service. "/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);

```

```

$stringToSign = $algorithm."\n"
.$timestamp."\n"
.$credentialScope."\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3".$secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;

// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/". $credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;

$curl = "curl -X POST https://" . $host
.' -H "Authorization: '.$authorization.'"
.' -H "Content-Type: application/json; charset=utf-8"
.' -H "Host: '.$host.'"
.' -H "X-TC-Action: '.$action.'"
.' -H "X-TC-Timestamp: '.$timestamp.'"
.' -H "X-TC-Version: '.$version.'"
.' -H "X-TC-Region: '.$region.'"
." -d ".$payload."";
echo $curl.PHP_EOL;

```

## Ruby

```

# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
require 'json'
require 'time'
require 'openssl'

# Key Parameters
secret_id = 'AKID*****'
secret_key = '*****'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host

```



```

region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")

puts canonical_request

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
hashed_request_payload,
].join("\n")
puts string_to_sign

# ***** Step 3: Calculate the Signature *****
digest = OpenSSL::Digest.new('sha256')

```

```

secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

# ***** Step 4: Concatenate the Authorization *****
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization

puts 'curl -X POST ' + endpoint \
+ ' -H "Authorization: ' + authorization + '"' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + '"' \
+ ' -H "X-TC-Action: ' + action + '"' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + '"' \
+ ' -H "X-TC-Version: ' + version + '"' \
+ ' -H "X-TC-Region: ' + region + '"' \
+ " -d '" + payload + "'"

```

## DotNet

```

using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;

public class Application
{
    public static string SHA256Hex(string s)
    {
        using (SHA256 algo = SHA256.Create())
        {
            byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
            StringBuilder builder = new StringBuilder();
            for (int i = 0; i < hashbytes.Length; ++i)
            {
                builder.Append(hashbytes[i].ToString("x2"));
            }
            return builder.ToString();
        }
    }

    public static byte[] HmacSHA256(byte[] key, byte[] msg)
    {
        using (HMACSHA256 mac = new HMACSHA256(key))

```

```

{
    return mac.ComputeHash(msg);
}
}

public static Dictionary<String, String> BuildHeaders(string secretid,
string secretkey, string service, string endpoint, string region,
string action, string version, DateTime date, string requestPayload)
{
    string datestr = date.ToString("yyyy-MM-dd");
    DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
    long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, MidpointRounding.AwayFromZero) / 1000;
    // ***** Step 1: Concatenate the CanonicalRequest string *****
    string algorithm = "TC3-HMAC-SHA256";
    string httpRequestMethod = "POST";
    string canonicalUri = "/";
    string canonicalQueryString = "";
    string contentType = "application/json";
    string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
    string signedHeaders = "content-type;host";
    string hashedRequestPayload = SHA256Hex(requestPayload);
    string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
    Console.WriteLine(canonicalRequest);
    Console.WriteLine("-----");

    // ***** Step 2: Concatenate the string to sign *****
    string credentialScope = datestr + "/" + service + "/" + "tc3_request";
    string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
    string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
    Console.WriteLine(stringToSign);
    Console.WriteLine("-----");

    // ***** Step 3: Calculate the signature *****
    byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
    byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
    byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
    byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_request"));
    byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringToSign));
}

```

```

Sign));
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----");

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);
Console.WriteLine("-----");

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}

public static void Main(string[] args)
{
    // SecretID and SecretKey
    string SECRET_ID = "AKID*****";
    string SECRET_KEY = "*****";

    string service = "cvm";
    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a proj
    ect, use the following parameter:
    // DateTime date = DateTime.UtcNow;
    // Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
    DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds
(1551113065);
    string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"],
    \"Name\": \"instance-name\"}]}";

    Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service
, endpoint, region, action, version, date, requestPayload);

```

```

Console.WriteLine("POST https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine();
Console.WriteLine(requestPayload);
}
}

```

## NodeJS

```

const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
    const hmac = crypto.createHmac('sha256', secret)
    return hmac.update(message).digest(encoding)
}

function getHash(message, encoding = 'hex') {
    const hash = crypto.createHash('sha256')
    return hash.update(message).digest(encoding)
}

function getDate(timestamp) {
    const date = new Date(timestamp * 1000)
    const year = date.getUTCFullYear()
    const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
    const day = ('0' + date.getUTCDate()).slice(-2)
    return `${year}-${month}-${day}`
}

function main(){

const SECRET_ID = "AKID*****"
const SECRET_KEY = "*****"

const endpoint = "cvm.tencentcloudapi.com"
const service = "cvm"
const region = "ap-guangzhou"
const action = "DescribeInstances"
const version = "2017-03-12"
//const timestamp = getTime()
const timestamp = 1551113065
const date = getDate(timestamp)

// ***** Step 1: Concatenate the CanonicalRequest string *****
const signedHeaders = "content-type;host"

```

```
const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}]}"

const hashedRequestPayload = getHash(payload);
const httpRequestMethod = "POST"
const canonicalUri = "/"
const canonicalQueryString = ""
const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + endpoint + "\n"

const canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("-----")

// ***** Step 2: Concatenate the string to sign *****
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("-----")

// ***** Step 3: Calculate the signature *****
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("-----")

// ***** Step 4: Concatenate the Authorization *****
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("-----")
```

```
const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + '"'
console.log(Call_Information)
}
main()
```

## C++

```
#include <iostream>
#include <iomanip>
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>

using namespace std;

string get_data(int64_t &timestamp)
{
    string utcDate;
    char buff[20] = {0};
    // time_t timenow;
    struct tm sttime;
    sttime = *gmtime(&timestamp);
    strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
    utcDate = string(buff);
    return utcDate;
}

string int2str(int64_t n)
{
    std::stringstream ss;
    ss << n;
    return ss.str();
}

string sha256Hex(const string &str)
{
    char buf[3];
```

```
unsigned char hash[SHA256_DIGEST_LENGTH];
SHA256_CTX sha256;
SHA256_Init(&sha256);
SHA256_Update(&sha256, str.c_str(), str.size());
SHA256_Final(hash, &sha256);
std::string NewString = "";
for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
{
    snprintf(buf, sizeof(buf), "%02x", hash[i]);
    NewString = NewString + buf;
}
return NewString;
}
string HmacSha256(const string &key, const string &input)
{
    unsigned char hash[32];

    HMAC_CTX *h;
    #if OPENSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX hmac;
    HMAC_CTX_init(&hmac);
    h = &hmac;
    #else
    h = HMAC_CTX_new();
    #endif

    HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);
    HMAC_Update(h, ( unsigned char* )&input[0], input.length());
    unsigned int len = 32;
    HMAC_Final(h, hash, &len);

    #if OPENSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX_cleanup(h);
    #else
    HMAC_CTX_free(h);
    #endif

    std::stringstream ss;
    ss << std::setfill('0');
    for (int i = 0; i < len; i++)
    {
        ss << hash[i];
    }

    return (ss.str());
}
string HexEncode(const string &input)
```



```
{
static const char* const lut = "0123456789abcdef";
size_t len = input.length();

string output;
output.reserve(2 * len);
for (size_t i = 0; i < len; ++i)
{
const unsigned char c = input[i];
output.push_back(lut[c >> 4]);
output.push_back(lut[c & 15]);
}
return output;
}

int main()
{
string SECRET_ID = "AKID*****";
string SECRET_KEY = "*****";

string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);

// ***** Step 1: Concatenate the CanonicalRequest string *****
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
cout << canonicalRequest << endl;
cout << "-----" << endl;

// ***** Step 2: Concatenate the string to sign *****
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
```

```
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----" << endl;

// ***** Step 3: Calculate the signature *****
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----" << endl;

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "-----" << endl;

string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: \" + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\" + "\n"
+ " -H \"Host: \" + host + "\n"
+ " -H \"X-TC-Action: \" + action + "\n"
+ " -H \"X-TC-Timestamp: \" + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: \" + version + "\n"
+ " -H \"X-TC-Region: \" + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
return 0;
};
```

## Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

| Error Code                  | Description                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------|
| AuthFailure.SignatureExpire | Signature expired. Timestamp and server time cannot differ by more than five minutes. |

|                              |                                                                                                                                                                       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AuthFailure.SecretIdNotFound | The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.                                              |
| AuthFailure.SignatureFailure | Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect. |
| AuthFailure.TokenFailure     | Temporary certificate token error.                                                                                                                                    |
| AuthFailure.InvalidSecretId  | Invalid key (not a TencentCloud API key type).                                                                                                                        |

# Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.

The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the [TencentCloud API Key](#) page to apply for them; otherwise, you cannot invoke the TencentCloud API.

## 1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the [TencentCloud API Key](#) page to apply for security credentials.

Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) page.
3. On the [API Key Management](#) page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

## 2. Generating a Signature

With the SecretId and SecretKey, a signature can be generated. The following describes how to generate a signature:

Assume that the SecretId and SecretKey are:

- SecretId: AKID\*\*\*\*\*
- SecretKey: \*\*\*\*\*

**Note:** This is just an example. For actual operations, please use your own SecretId and SecretKey.

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

| Parameter name | Description                          | Parameter value   |
|----------------|--------------------------------------|-------------------|
| Action         | Method name                          | DescribeInstances |
| SecretId       | Key ID                               | AKID*****         |
| Timestamp      | Current timestamp                    | 1465185768        |
| Nonce          | Random positive integer              | 11886             |
| Region         | Region where the instance is located | ap-guangzhou      |
| InstanceIds.0  | ID of the instance to query          | ins-09dx96dg      |
| Offset         | Offset                               | 0                 |
| Limit          | Allowed maximum output               | 20                |
| Version        | API version number                   | 2017-03-12        |

### 2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
  'Action' : 'DescribeInstances',
  'InstanceIds.0' : 'ins-09dx96dg',
  'Limit' : 20,
  'Nonce' : 11886,
  'Offset' : 0,
  'Region' : 'ap-guangzhou',
  'SecretId' : 'AKID*****',
  'Timestamp' : 1465185768,
  'Version': '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

## 2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

**Note:** The "parameter value" is the original value but not the value after URL encoding.

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKID*****&Timestamp=1465
185768&Version=2017-03-12
```

## 2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****
*****&Timestamp=1465185768&Version=2017-03-12
```

## 2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and

then encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

```
$secretKey = '*****';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
7RAM2xfNMO9EiVTNmPg06MRnCvQ=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

### 3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is 7RAM2xfNMO9EiVTNmPg06MRnCvQ=, the final signature string request parameter (Signature) is 7RAM2xfNMO9EiVTNmPg06MRnCvQ%3D, which will be used to generate the final request URL.

**Note:** If your request method is GET, or the request method is POST and the Content-Type is application/x-www-form-urlencoded, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.

**Note:** The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.

**Note:** Other parameter values also need to be encoded using [RFC 3986](#). Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0–9 and uppercase A–F), and using lowercase will cause an error.

### 4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

| Error code                   | Error description                             |
|------------------------------|-----------------------------------------------|
| AuthFailure.SignatureExpire  | The signature is expired                      |
| AuthFailure.SecretIdNotFound | The key does not exist                        |
| AuthFailure.SignatureFailure | Signature error                               |
| AuthFailure.TokenFailure     | Token error                                   |
| AuthFailure.InvalidSecretId  | Invalid key (not a TencentCloud API key type) |

## 5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=7RAM2xfNMO9EiVTNmPg06MRnCvQ%3D&Timestamp=1465185768&Version=2017-03-12`.

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be



returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

## Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // When signing, the parameters need to be sorted in lexicographical order. TreeMap
        // is used here to guarantee the correct order.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
```

```

StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
// There is no requirement for the order of the parameters in the actual request
URL.
for (String k : params.keySet()) {
// The request string needs to be URL encoded. As the Key is all in English letters,
only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
}
return url.toString().substring(0, url.length() - 1);
}

public static void main(String[] args) throws Exception {
TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enables
automatic sorting
// A random number should be used when actually calling, for example: params.put
("Nonce", new Random().nextInt(Integer.MAX_VALUE));
params.put("Nonce", 11886); // Common parameter
// The current time of the system should be used when actually calling, for example:
params.put("Timestamp", System.currentTimeMillis() / 1000);
params.put("Timestamp", 1465185768); // Common parameter
params.put("SecretId", "AKID*****"); // Common parameter
params.put("Action", "DescribeInstances"); // Common parameter
params.put("Version", "2017-03-12"); // Common parameter
params.put("Region", "ap-guangzhou"); // Common parameter
params.put("Limit", 20); // Business parameter
params.put("Offset", 0); // Business parameter
params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
params.put("Signature", sign(getStringToSign(params), "*****", "HmacSHA1")); // Common parameter
System.out.println(getUrl(params));
}
}

```

## Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests`.

```

# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time

```

```
import requests

secret_id = "AKID*****"
secret_key = "*****"

def get_string_to_sign(method, endpoint, params):
    s = method + endpoint + "/"
    query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
    return s + query_str

def sign_str(key, s, method):
    hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
    return base64.b64encode(hmac_str)

if __name__ == '__main__':
    endpoint = "cvm.tencentcloudapi.com"
    data = {
        'Action' : 'DescribeInstances',
        'InstanceIds.0' : 'ins-09dx96dg',
        'Limit' : 20,
        'Nonce' : 11886,
        'Offset' : 0,
        'Region' : 'ap-guangzhou',
        'SecretId' : secret_id,
        'Timestamp' : 1465185768, # int(time.time())
        'Version': '2017-03-12'
    }
    s = get_string_to_sign("GET", endpoint, data)
    data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
    print(data["Signature"])
    # An actual invocation would occur here, which may incur fees after success
    # resp = requests.get("https://" + endpoint, params=data)
    # print(resp.url)
```

## Golang

```
package main

import (
    "bytes"
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "fmt"
    "sort"
)
```

```
func main() {
secretId := "AKID*****"
secretKey := "*****"
params := map[string]string{
    "Nonce": "11886",
    "Timestamp": "1465185768",
    "Region": "ap-guangzhou",
    "SecretId": secretId,
    "Version": "2017-03-12",
    "Action": "DescribeInstances",
    "InstanceIds.0": "ins-09dx96dg",
    "Limit": "20",
    "Offset": "0",
}

var buf bytes.Buffer
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")

// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
    keys = append(keys, k)
}
sort.Strings(keys)

for i := range keys {
    k := keys[i]
    buf.WriteString(k)
    buf.WriteString("=")
    buf.WriteString(params[k])
    buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)

hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())

fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

## PHP

```

<?php
$secretId = "AKID*****";
$secretKey = "*****";
$params["Nonce"] = 11886;//rand();
$params["Timestamp"] = 1465185768;//time();
$params["Region"] = "ap-guangzhou";
$params["SecretId"] = $secretId;
$params["Version"] = "2017-03-12";
$params["Action"] = "DescribeInstances";
$params["InstanceIds.0"] = "ins-09dx96dg";
$params["Limit"] = 20;
$params["Offset"] = 0;

ksort($params);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $params as $key => $value ) {
    $signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);

$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
// $params["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($params);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);

```

## Ruby

```

# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'

secret_id = "AKID*****"
secret_key = "*****"

method = 'GET'

```

```

endpoint = 'cvm.tencentcloudapi.com'
data = {
  'Action' => 'DescribeInstances',
  'InstanceIds.0' => 'ins-09dx96dg',
  'Limit' => 20,
  'Nonce' => 11886,
  'Offset' => 0,
  'Region' => 'ap-guangzhou',
  'SecretId' => secret_id,
  'Timestamp' => 1465185768, # Time.now.to_i
  'Version' => '2017-03-12',
}
sign = method + endpoint + '/?'
params = []
data.sort.each do |item|
  params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sign))
puts data['Signature']

# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
# res = Net::HTTP.get_response(uri)
# puts res.body

```

## DotNet

```

using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;

public class Application {
  public static string Sign(string signKey, string secret)
  {
    string signRet = string.Empty;
    using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
    {
      byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
      signRet = Convert.ToBase64String(hash);
    }
  }
}

```

```
}
return signRet;
}

public static string MakeSignPlainText(SortedDictionary<string, string> requestParams, string requestMethod, string requestHost, string requestPath)
{
    string retStr = "";
    retStr += requestMethod;
    retStr += requestHost;
    retStr += requestPath;
    retStr += "?";
    string v = "";
    foreach (string key in requestParams.Keys)
    {
        v += string.Format("{0}={1}&", key, requestParams[key]);
    }
    retStr += v.TrimEnd('&');
    return retStr;
}

public static void Main(string[] args)
{
    string SECRET_ID = "AKID*****";
    string SECRET_KEY = "*****";

    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";
    double RequestTimestamp = 1465185768;
    // long timestamp = ToTimestamp() / 1000;
    // string requestTimestamp = timestamp.ToString();
    Dictionary<string, string> param = new Dictionary<string, string>();
    param.Add("Limit", "20");
    param.Add("Offset", "0");
    param.Add("InstanceIds.0", "ins-09dx96dg");
    param.Add("Action", action);
    param.Add("Nonce", "11886");
    // param.Add("Nonce", Math.Abs(new Random().Next()).ToString());

    param.Add("Timestamp", RequestTimestamp.ToString());
    param.Add("Version", version);

    param.Add("SecretId", SECRET_ID);
    param.Add("Region", region);
    SortedDictionary<string, string> headers = new SortedDictionary<string, string>(param, StringComparer.Ordinal);
```

```
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);

Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();

string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
    result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
```

## NodeJS

```
const crypto = require('crypto');

function get_req_url(params, endpoint){
    params['Signature'] = escape(params['Signature']);
    const url_strParam = sort_params(params)
    return "https://" + endpoint + "/" + "?" + url_strParam.slice(1);
}

function formatSignString(reqMethod, endpoint, path, strParam){
    let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
    return strSign;
}

function sha1(secretKey, strsign){
    let signMethodMap = {'HmacSHA1': "sha1"};
    let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
    return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}

function sort_params(params) {
```



```
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
  //k = k.replace(/_/g, '.');
  strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}

function main(){
const SECRET_ID = "AKID*****"
const SECRET_KEY = "*****"

const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)

let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;

strParam = sort_params(params)

const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----")

params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
console.log("-----")

const req_url = get_req_url(params, endpoint)
```

```
console.log(params['Signature'])
console.log("-----")
console.log(req_url)
}
main()
```

# Responses

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## Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
  "Response": {
    "TotalCount": 0,
    "InstanceStatusSet": [],
    "RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
  }
}
```

- The API will return `Response` , which contains `RequestId` , as long as it processes the request. It does not matter if the request is successful or not.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus` . `0 TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

## Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please ensure your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

## Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

| Error Code                        | Description                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------|
| AuthFailure.InvalidSecretId       | Invalid key (not a TencentCloud API key type).                                                       |
| AuthFailure.MFAFailure            | MFA failed.                                                                                          |
| AuthFailure.SecretIdNotFound      | The key does not exist.                                                                              |
| AuthFailure.SignatureExpire       | Signature expired.                                                                                   |
| AuthFailure.SignatureFailure      | Signature error.                                                                                     |
| AuthFailure.TokenFailure          | Token error.                                                                                         |
| AuthFailure.UnauthorizedOperation | The request does not have CAM authorization.                                                         |
| DryRunOperation                   | DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used. |
| FailedOperation                   | Operation failed.                                                                                    |
| InternalError                     | Internal error.                                                                                      |
| InvalidAction                     | The API does not exist.                                                                              |
| InvalidParameter                  | Incorrect parameter.                                                                                 |
| InvalidParameterValue             | Invalid parameter value.                                                                             |
| LimitExceeded                     | Quota limit exceeded.                                                                                |

| Error Code            | Description                                                           |
|-----------------------|-----------------------------------------------------------------------|
| MissingParameter      | A parameter is missing.                                               |
| NoSuchVersion         | The API version does not exist.                                       |
| RequestLimitExceeded  | The number of requests exceeds the frequency limit.                   |
| ResourceInUse         | Resource is in use.                                                   |
| ResourceInsufficient  | Insufficient resource.                                                |
| ResourceNotFound      | The resource does not exist.                                          |
| ResourceUnavailable   | Resource is unavailable.                                              |
| UnauthorizedOperation | Unauthorized operation.                                               |
| UnknownParameter      | Unknown parameter.                                                    |
| UnsupportedOperation  | Unsupported operation.                                                |
| UnsupportedProtocol   | HTTPS request method error. Only GET and POST requests are supported. |
| UnsupportedRegion     | API does not support the requested region.                            |

# Database APIs

## CreateDB

最近更新时间：2024-11-26 16:32:02

### 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to create a database.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                                  | Description                                                                                                                    |
|----------------|----------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                                | <a href="#">Common Params</a> . The value used for this API: CreateDB.                                                         |
| Version        | Yes      | String                                | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                                | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld     | Yes      | String                                | Instance ID                                                                                                                    |
| DBs.N          | Yes      | Array of <a href="#">DBCreateInfo</a> | Database creation information                                                                                                  |

## 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task flow ID                                                                                                                                                                                                                            |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Creating the "test\_db" database

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=CreateDB
&InstanceId=mssql-i1z41iwd
&DBs.0.DBName=test_db
&DBs.0.Charset=Chinese_PRC_CI_AS
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "FlowId": 123,
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                                    |
|----------------------------------------------|----------------------------------------------------------------|
| FailedOperation.DBError                      | Database error.                                                |
| FailedOperation.GcsError                     | The operation failed or the network timed out.                 |
| InternalServerError.SystemError              | System error.                                                  |
| InvalidParameter.InputIllegal                | Input error.                                                   |
| InvalidParameter.ParamsAssertFailed          | An error occurred while converting parameter assertion.        |
| InvalidParameterValue.CharsetIllegal         | The database character set is incorrectly set.                 |
| InvalidParameterValue.DBCharIllegal          | The database name contains invalid characters.                 |
| InvalidParameterValue.DBExist                | The database already exists.                                   |
| InvalidParameterValue.DBNamesKeyWords        | The database name cannot contain reserved words.               |
| InvalidParameterValue.DatabaseRemarksIllegal | The database remarks are invalid.                              |
| InvalidParameterValue.GrantsIllegal          | Invalid parameter. The value of <code>GRANT</code> is invalid. |
| InvalidParameterValue.PrivilegesIllegal      | Incorrect database permission settings.                        |
| LimitExceeded.TooManyDB                      | The database limit is exceeded.                                |
|                                              |                                                                |



|                                           |                              |
|-------------------------------------------|------------------------------|
| ResourceNotFound.AccountNotExist          | The account does not exist.  |
| ResourceNotFound.InstanceNotFound         | The instance does not exist. |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.     |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.    |

# ModifyDBName

最近更新时间：2024-11-26 16:31:56

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to rename a database.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: ModifyDBName.                                                     |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Instance ID                                                                                                                    |
| OldDBName      | Yes      | String | Old database name                                                                                                              |
| NewDBName      | Yes      | String | New name of database                                                                                                           |

## 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task flow ID                                                                                                                                                                                                                            |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying a database name

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDBName
&InstanceId=mssql-i1z41iwd
&OldDBName=test_db
&NewDBName=test_db_newname
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "FlowId": 123,
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| InternalServerError.DBError            | Database error                                          |
| InternalServerError.GcsError           | GCS API error.                                          |
| InternalServerError.SystemError        | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| InvalidParameterValue.DBCharIllegal    | The database name contains invalid characters.          |
| InvalidParameterValue.DBExist          | The database already exists.                            |
| InvalidParameterValue.DBNameIsKeyWords | The database name cannot contain reserved words.        |
| InvalidParameterValue.DBNameSame       | The new database name is the same as the old one.       |
| ResourceNotFound.DBNotFound            | The database does not exist.                            |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| ResourceUnavailable.DBInvalidStatus    | Invalid database status.                                |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# ModifyDBRemark

最近更新时间：2024-11-26 16:31:55

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to modify database remarks.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type                              | Description                                                                                                                    |
|----------------|----------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String                            | <a href="#">Common Params</a> . The value used for this API: ModifyDBRemark.                                                   |
| Version        | Yes      | String                            | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String                            | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String                            | Instance ID in the format of mssql-rljoi3bf                                                                                    |
| DBRemarks.N    | Yes      | Array of <a href="#">DBRemark</a> | Array of database names and remarks, where each element contains a database name and the corresponding remarks                 |

## 3. Output Parameters

| Parameter Name | Type   | Description                                                                                                                                                                                                                             |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RequestId      | String | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying database remarks

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDBRemark
&InstanceId=mssql-njj2mtp1
&DBRemarks.0.Name=db_test
&DBRemarks.0.Remark=Test database
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "08fdf411-5d39-44f2-8e1d-a58ee60b237d"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                       |
|----------------------------------------------|-----------------------------------|
| InternalServerError.DBError                  | Database error                    |
| InternalServerError.GcsError                 | GCS API error.                    |
| InternalServerError.SystemError              | System error.                     |
| InvalidParameter                             | Invalid parameter.                |
| InvalidParameter.InputIllegal                | Input error.                      |
| InvalidParameterValue.DataBaseRemarksIllegal | The database remarks are invalid. |
| ResourceNotFound.DBNotFound                  | The database does not exist.      |
| ResourceNotFound.InstanceNotFound            | The instance does not exist.      |
| ResourceUnavailable.InstanceStatusInvalid    | Invalid instance status.          |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.         |

# DescribeDBCharsets

最近更新时间：2024-11-26 16:33:26

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the database character sets supported by an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeDBCharsets.                                               |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Instance ID in the format of mssql-j8kv137v                                                                                    |

## 3. Output Parameters

| Parameter Name | Type | Description |
|----------------|------|-------------|
|                |      |             |



|                  |                 |                                                                                                                                                                                                                                         |
|------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DatabaseCharsets | Array of String | Database character set list                                                                                                                                                                                                             |
| RequestId        | String          | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the supported database character sets

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeDBCharsets
&InstanceId=mssql-njj2mtp1
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "DatabaseCharsets": [
      "SQL_EBCDIC1141_CP1_CS_AS",
      "SQL_EBCDIC277_2_CP1_CS_AS",
      "SQL_Ukrainian_CP1251_CI_AS",
      "SQL_Ukrainian_CP1251_CS_AS"
    ],
    "RequestId": "b28ec299-0063-4195-9273-ebac5cdc485c"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                               | Description                                             |
|------------------------------------------|---------------------------------------------------------|
| AuthFailure                              | CAM signature/authentication error                      |
| InternalServerError                      | Internal error.                                         |
| InternalServerError.DBConnectError       | Database connection error.                              |
| InternalServerError.DBError              | Database error                                          |
| InvalidParameter                         | Invalid parameter.                                      |
| InvalidParameter.InputIllegal            | Input error.                                            |
| InvalidParameter.InterfaceNameNotFound   | The API does not exist.                                 |
| InvalidParameter.ParamsAssertFailed      | An error occurred while converting parameter assertion. |
| InvalidParameterValue                    | The parameter value is invalid.                         |
| InvalidParameterValue.ParameterTypeError | Incorrect parameter type.                               |
| ResourceNotFound                         | Resource not found.                                     |
| ResourceNotFound.InstanceNotFound        | The instance does not exist.                            |
| UnauthorizedOperation                    | The operation is unauthorized.                          |
| UnauthorizedOperation.PermissionDenied   | CAM authentication error.                               |

|                  |                         |
|------------------|-------------------------|
| UnknownParameter | Unknown parameter error |
|------------------|-------------------------|

# DeleteDB

最近更新时间：2024-11-26 16:32:01

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to drop a database.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                    |
|----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: DeleteDB.                                                         |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String          | Instance ID in the format of mssql-rljoi3bf                                                                                    |
| Names.N        | Yes      | Array of String | Array of database names                                                                                                        |

## 3. Output Parameters

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task flow ID                                                                                                                                                                                                                            |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Deleting a database

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DeleteDB
&InstanceId=mssql-rljoi3bf
&Names.0=test_db
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a928d733-109a-4f44-84ad-991da182d0a3",
    "FlowId": 30467
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalError.DBError                  | Database error                                          |
| InternalError.SystemError              | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.DBNotFound            | The database does not exist.                            |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| ResourceUnavailable.DBInvalidStatus    | Invalid database status.                                |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# CloneDB

最近更新时间：2024-11-26 16:33:28

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to clone and rename databases of an instance. The clones are still in the instance from which they are cloned.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name  | Required | Type                                           | Description                                                                                                                    |
|-----------------|----------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action          | Yes      | String                                         | <a href="#">Common Params</a> . The value used for this API: CloneDB.                                                          |
| Version         | Yes      | String                                         | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region          | Yes      | String                                         | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| Instanceld      | Yes      | String                                         | Instance ID in the format of mssql-j8kv137v                                                                                    |
| RenameRestore.N | Yes      | Array of <a href="#">RenameRestoreDatabase</a> | Clone and rename the databases specified in                                                                                    |

ReNameRestoreDatabase . Please note that the clones must be renamed.

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Async task request ID, which can be used in the DescribeFlowStatus API to query the execution result of an async task                                                                                                                   |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Cloning a database

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=CloneDB
&InstanceId=mssql-njj2mtp1
&RenameRestore.0.OldName=db1
&RenameRestore.0.NewName=clone_db1
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
    "FlowId": 3546
  }
}
```

### 5. Developer Resources

#### SDK



TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                              | Description                                             |
|-----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                 | Database error.                                         |
| FailedOperation.GcsError                | The operation failed or the network timed out.          |
| InternalError.CreateFlowFailed          | Failed to create flow.                                  |
| InternalError.DBConnectError            | Database connection error.                              |
| InternalError.SystemError               | System error.                                           |
| InternalError.UnknownError              | Unknown error.                                          |
| InvalidParameter.InputIllegal           | Input error.                                            |
| InvalidParameter.ParamsAssertFailed     | An error occurred while converting parameter assertion. |
| InvalidParameterValue.BackupNameIllegal | The backup name contains invalid characters.            |
| InvalidParameterValue.DBCharIllegal     | The database name contains invalid characters.          |
| InvalidParameterValue.DBExist           | The database already exists.                            |
| InvalidParameterValue.DBNameKeyWords    | The database name cannot contain reserved words.        |

|                                           |                                                   |
|-------------------------------------------|---------------------------------------------------|
| InvalidParameterValue.DBNameSame          | The new database name is the same as the old one. |
| InvalidParameterValue.ParameterTypeError  | Incorrect parameter type.                         |
| LimitExceeded.TooManyDB                   | The database limit is exceeded.                   |
| ResourceNotFound.DBNotExit                | The database does not exist.                      |
| ResourceNotFound.DBNotFound               | The database does not exist.                      |
| ResourceNotFound.InstanceNotFound         | The instance does not exist.                      |
| ResourceUnavailable.DBInvalidStatus       | Invalid database status.                          |
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.                          |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.                         |
| UnknownParameter                          | Unknown parameter error                           |

# ModifyDatabaseCDC

最近更新时间：2024-11-26 16:33:24

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to enable or disable the change data capture (CDC) feature.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                    |
|----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: ModifyDatabaseCDC.                                                |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| DBNames.N      | Yes      | Array of String | Array of database names                                                                                                        |
| ModifyType     | Yes      | String          | Enable or disable CDC. Valid values: <code>enable</code> , <code>disable</code>                                                |
| InstanceId     | Yes      | String          | Instance ID                                                                                                                    |

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task ID                                                                                                                                                                                                                                 |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Enabling/Disabling CDC

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDatabaseCDC
&InstanceId=mssql-j8kv137v
&DBNames.0=test_db
&ModifyType=enable
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "FlowId": 9999,
    "RequestId": "a928d733-109a-4f44-84ad-991da182d0s3"
  }
}
```

### 5. Developer Resources

#### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                                         |
|----------------------------------------------|---------------------------------------------------------------------|
| InternalError.DBError                        | Database error                                                      |
| InvalidParameterValue.DBNameNotNull          | The database name is required.                                      |
| InvalidParameterValue.ModifyTypeValueInvalid | Only <code>enable</code> and <code>disable</code> are valid values. |
| ResourceNotFound.DBNotFound                  | The database does not exist.                                        |
| ResourceNotFound.InstanceNotFound            | The instance does not exist.                                        |
| ResourceUnavailable.DBInvalidStatus          | Invalid database status.                                            |
| ResourceUnavailable.InstanceStatusInvalid    | Invalid instance status.                                            |
| ResourceUnavailable.NotSupportRoInstance     | Read-Only instances are not supported.                              |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                                           |

# ModifyDatabaseCT

最近更新时间：2024-11-26 16:33:22

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to enable or disable the change tracking (CT) feature.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                    |
|----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: ModifyDatabaseCT.                                                 |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| DBNames.N      | Yes      | Array of String | Array of database names                                                                                                        |
| ModifyType     | Yes      | String          | Enable or disable CT. Valid values: <code>enable</code> , <code>disable</code>                                                 |
| InstanceId     | Yes      | String          | Instance ID                                                                                                                    |
|                |          |                 |                                                                                                                                |

|                    |    |         |                                                                                                                   |
|--------------------|----|---------|-------------------------------------------------------------------------------------------------------------------|
| ChangeRetentionDay | No | Integer | Retention period (in days) of change tracking information when CT is enabled. Value range: 3–30. Default value: 3 |
|--------------------|----|---------|-------------------------------------------------------------------------------------------------------------------|

### 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task ID                                                                                                                                                                                                                                 |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Enabling/Disabling CT

##### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDatabaseCT
&InstanceId=mssql-j8kv137v
&DBNames.0=test_db
&ModifyType=enable
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "FlowId": 9999,
    "RequestId": "a928d733-1099-4f44-84ad-991da182d0s3"
  }
}
```

### 5. Developer Resources

#### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                                         |
|----------------------------------------------|---------------------------------------------------------------------|
| InternalServerError.DBError                  | Database error                                                      |
| InvalidParameterValue.DBNameNotNull          | The database name is required.                                      |
| InvalidParameterValue.ModifyTypeValueInvalid | Only <code>enable</code> and <code>disable</code> are valid values. |
| ResourceNotFound.DBNotFound                  | The database does not exist.                                        |
| ResourceUnavailable.DBInvalidStatus          | Invalid database status.                                            |
| ResourceUnavailable.InstanceStatusInvalid    | Invalid instance status.                                            |
| ResourceUnavailable.NotSupportRoInstance     | Read-Only instances are not supported.                              |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                                           |
| UnsupportedOperation.NotSupportRepeat        | Repeated operations are not supported.                              |



# DescribeDBs

最近更新时间：2024-11-26 16:31:59

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query the list of databases

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name  | Required | Type            | Description                                                                                                                    |
|-----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action          | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: DescribeDBs.                                                      |
| Version         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region          | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceldSet.N | Yes      | Array of String | Instance ID                                                                                                                    |
| Limit           | No       | Integer         | Number of results per page. Value range: 1-100. Default value: 20                                                              |
| Offset          | No       | Integer         | Page number. Default value: 0                                                                                                  |
| Name            | No       | String          | Database name                                                                                                                  |

|             |    |        |                                                                                                                                          |
|-------------|----|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| OrderByType | No | String | Sorting rule. Valid values: <code>desc</code> (descending order), <code>asc</code> (ascending order). Default value: <code>desc</code> . |
| Encryption  | No | String | TDE status. Valid values: <code>enable</code> (enabled), <code>disable</code> (disabled).                                                |

### 3. Output Parameters

| Parameter Name | Type                                      | Description                                                                                                                                                                                                                             |
|----------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount     | Integer                                   | Number of databases                                                                                                                                                                                                                     |
| DBInstances    | Array of <a href="#">InstanceDBDetail</a> | List of instance databases                                                                                                                                                                                                              |
| RequestId      | String                                    | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

### 4. Example

#### Example1 Querying the list of databases

This example shows you how to query the list of databases.

#### Input Example

```
POST / HTTP/1.1
Host: sqlserver.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDBs
<Common request parameters>

{
  "InstanceIdSet": [
    "mssql-njj2mtp1"
  ]
}
```

## Output Example

```
{
  "Response": {
    "RequestId": "5062de55-d048-4d3b-92f9-b98b6f244360",
    "TotalCount": 1,
    "DBInstances": [
      {
        "InstanceId": "mssql-632eyp63",
        "DBDetails": [
          {
            "Name": "ceshi1",
            "Charset": "Chinese_PRC_CI_AS",
            "Remark": "Testdb1",
            "CreateTime": "2018-07-02 20:12:24",
            "Status": 2,
            "Accounts": [
              {
                "UserName": "victorwind",
                "Privilege": "ReadWrite"
              }
            ],
            "InternalStatus": "ONLINE"
          }
        ]
      }
    ]
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                             | Description                                             |
|----------------------------------------|---------------------------------------------------------|
| FailedOperation.DBError                | Database error.                                         |
| FailedOperation.GcsError               | The operation failed or the network timed out.          |
| InternalError.SystemError              | System error.                                           |
| InvalidParameter.InputIllegal          | Input error.                                            |
| InvalidParameter.ParamsAssertFailed    | An error occurred while converting parameter assertion. |
| ResourceNotFound.InstanceNotFound      | The instance does not exist.                            |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.                               |

# DescribeDBsNormal

最近更新时间：2024-11-26 16:33:25

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to query database configurations. It does not return information of the accounts that have permissions to operate the database.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type   | Description                                                                                                                    |
|----------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String | <a href="#">Common Params</a> . The value used for this API: DescribeDBsNormal.                                                |
| Version        | Yes      | String | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| InstanceId     | Yes      | String | Instance ID in the format of mssql-7vfv3rk3                                                                                    |

## 3. Output Parameters

| Parameter | Type | Description |
|-----------|------|-------------|
|-----------|------|-------------|

| Name       |                                         |                                                                                                                                                                                                                                         |
|------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TotalCount | Integer                                 | Total number of databases of the instance                                                                                                                                                                                               |
| DBList     | Array of <a href="#">DbNormalDetail</a> | Detailed database configurations, such as whether CDC or CT is enabled for the database                                                                                                                                                 |
| RequestId  | String                                  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying detailed database configurations

This example shows you how to query the detailed database configurations.

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=DescribeDBsNormal
&InstanceId=mssql-njj2mtp1
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DBList": [
      {
        "IsFulltextEnabled": "0",
        "UserAccessDesc": "MULTI_USER",
        "IsMirroring": "1",
        "CollationName": "Chinese_PRC_CI_AS",
        "RecoveryModelDesc": "FULL",
        "IsSubscribed": "1",
        "StateDesc": "ONLINE",
        "IsCdcEnabled": "1",
        "MirroringState": "SYNCHRONIZED",
        "IsPublished": "1",
        "RetentionPeriod": "20",
        "IsDbChainingOn": "1",
        "IsEncrypted": "0",
```

```
"IsTrustworthyOn": "1",
"IsReadCommittedSnapshotOn": "0",
"IsBrokerEnabled": "1",
"IsAutoCleanupOn": "1",
"Name": "db_test"
},
{
  "RequestId": "9607d890-db08-11eb-9f54-a9df121c01af"
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code               | Description                                    |
|--------------------------|------------------------------------------------|
| FailedOperation.DBError  | Database error.                                |
| FailedOperation.GcsError | The operation failed or the network timed out. |
| InternalError.DBError    | Database error                                 |

|                                        |                              |
|----------------------------------------|------------------------------|
| InternalError.GcsError                 | GCS API error.               |
| InternalError.SystemError              | System error.                |
| InvalidParameter.InputIllegal          | Input error.                 |
| InvalidParameter.InterfaceNameNotFound | The API does not exist.      |
| ResourceNotFound.InstanceNotFound      | The instance does not exist. |
| UnauthorizedOperation.PermissionDenied | CAM authentication error.    |



# ModifyDatabaseMdf

最近更新时间：2024-11-26 16:33:21

## 1. API Description

Domain name for API request: sqlserver.intl.tencentcloudapi.com.

This API is used to shrink database MDF files.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

| Parameter Name | Required | Type            | Description                                                                                                                    |
|----------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Action         | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: ModifyDatabaseMdf.                                                |
| Version        | Yes      | String          | <a href="#">Common Params</a> . The value used for this API: 2018-03-28.                                                       |
| Region         | Yes      | String          | <a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product. |
| DBNames.N      | Yes      | Array of String | Array of database names                                                                                                        |
| InstanceId     | Yes      | String          | Instance ID                                                                                                                    |

## 3. Output Parameters

| Parameter Name | Type    | Description                                                                                                                                                                                                                             |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FlowId         | Integer | Task ID                                                                                                                                                                                                                                 |
| RequestId      | String  | The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem. |

## 4. Example

### Example1 Shrinking database MDF files

#### Input Example

```
https://sqlserver.intl.tencentcloudapi.com/?Action=ModifyDatabaseMdf
&InstanceId=mssql-j8kv137v
&DBNames.0=test_db
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "FlowId": 9999,
    "RequestId": "a989d733-1099-4f44-84ad-991da182d0w3"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

| Error Code                                   | Description                                                         |
|----------------------------------------------|---------------------------------------------------------------------|
| InternalServerError.DBError                  | Database error                                                      |
| InvalidParameterValue.DBNameNotNull          | The database name is required.                                      |
| InvalidParameterValue.ModifyTypeValueInvalid | Only <code>enable</code> and <code>disable</code> are valid values. |
| ResourceNotFound.DBNotFound                  | The database does not exist.                                        |
| ResourceUnavailable.DBInvalidStatus          | Invalid database status.                                            |
| ResourceUnavailable.InstanceStatusInvalid    | Invalid instance status.                                            |
| ResourceUnavailable.NotSupportRoInstance     | Read-Only instances are not supported.                              |
| UnauthorizedOperation.PermissionDenied       | CAM authentication error.                                           |

# Data Types

最近更新时间：2025-08-21 19:43:58

## AccountCreateInfo

Account creation information

Used by actions: CreateAccount.

| Name           | Type                                 | Required | Description                                                                                                                                                                                                                                                        |
|----------------|--------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UserName       | String                               | Yes      | Instance username                                                                                                                                                                                                                                                  |
| Password       | String                               | No       | Instance password                                                                                                                                                                                                                                                  |
| DBPrivileges   | Array of <a href="#">DBPrivilege</a> | No       | List of database permissions                                                                                                                                                                                                                                       |
| Remark         | String                               | No       | Account remarks                                                                                                                                                                                                                                                    |
| IsAdmin        | Boolean                              | No       | Whether it is an admin account. Valid values: true (it is an admin account when the instance is a single-node type and AccountType is L0; when the instance is a two-node type and AccountType is L1), false (it is a standard account when AccountType is L3)     |
| Authentication | String                               | No       | Valid values: <code>win-windows authentication</code> , <code>sql-server authentication</code> . Default value: <code>sql-server authentication</code>                                                                                                             |
| AccountType    | String                               | No       | Account type, which is an extension field of <code>IsAdmin</code> . Valid values: <code>L0</code> (admin account, only for basic edition), <code>L1</code> (privileged account), <code>L2</code> (designated account), <code>L3</code> (standard account, default) |
| IsCam          | Boolean                              | No       | Whether CAM authentication is enabled                                                                                                                                                                                                                              |

## AccountDetail

Account information details

Used by actions: DescribeAccounts.

| Name           | Type                                 | Description                                                                                                                                                                                          |
|----------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name           | String                               | Account name                                                                                                                                                                                         |
| Remark         | String                               | Account remarks                                                                                                                                                                                      |
| CreateTime     | Timestamp                            | Account creation time                                                                                                                                                                                |
| Status         | Integer                              | Account status. 1: creating, 2: normal, 3: modifying, 4: resetting password, -1: deleting                                                                                                            |
| UpdateTime     | Timestamp                            | Account update time                                                                                                                                                                                  |
| PassTime       | Timestamp                            | Password update time                                                                                                                                                                                 |
| InternalStatus | String                               | Internal account status, which should be <code>enable</code> normally                                                                                                                                |
| Dbs            | Array of <a href="#">DBPrivilege</a> | Information of read and write permissions of this account on relevant databases                                                                                                                      |
| IsAdmin        | Boolean                              | Whether it is an admin account                                                                                                                                                                       |
| IsCam          | Boolean                              | Whether it is a CAM managed account                                                                                                                                                                  |
| Authentication | String                               | Valid values: <code>win-windows authentication</code> , <code>sql-sqlserver authentication</code> .                                                                                                  |
| Host           | String                               | The host required for <code>win-windows authentication</code> account                                                                                                                                |
| AccountType    | String                               | Account type. Valid values: <code>L0</code> (admin account, only for basic edition), <code>L1</code> (privileged account), <code>L2</code> (designated account), <code>L3</code> (standard account). |

## AccountPassword

Instance account password information

Used by actions: `ResetAccountPassword`.

| Name     | Type   | Required | Description |
|----------|--------|----------|-------------|
| UserName | String | Yes      | Username    |
| Password | String | Yes      | Password    |

## AccountPrivilege

Database account permission information, which is set when the database is created

Used by actions: CreateDB, DescribeDBs.

| Name        | Type   | Required | Description                                                                                                                                                                                                     |
|-------------|--------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UserName    | String | Yes      | Database username                                                                                                                                                                                               |
| Privilege   | String | Yes      | Database permission. Valid values: <code>ReadWrite</code> (read-write), <code>ReadOnly</code> (read-only), <code>Delete</code> (delete the database permissions of this account), <code>DBOwner</code> (owner). |
| AccountType | String | No       | Account name. Valid values: <code>L0</code> (admin account, only for basic edition), <code>L1</code> (privileged account), <code>L2</code> (designated account), <code>L3</code> (standard account).            |

## AccountPrivilegeModifyInfo

Database account permission change information

Used by actions: ModifyAccountPrivilege.

| Name         | Type                                           | Required | Description                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UserName     | String                                         | Yes      | Database username                                                                                                                                                                                                                                                                                                                                                                                       |
| DBPrivileges | Array of <a href="#">DBPrivilegeModifyInfo</a> | Yes      | Account permission change information                                                                                                                                                                                                                                                                                                                                                                   |
| IsAdmin      | Boolean                                        | No       | Whether it is an instance admin account. Valid values: <code>true</code> (Yes. When the instance is single-node and <code>AccountType</code> is <code>L0</code> , it's an admin account; when the instance is two-node and <code>AccountType</code> is <code>L1</code> , it's a privileged account), <code>false</code> (No. It's a standard account and <code>AccountType</code> is <code>L3</code> ). |
| AccountType  | String                                         | No       | Account type, which is an extension field of <code>IsAdmin</code> . Valid values: <code>L0</code> (admin account, only for basic edition), <code>L1</code> (privileged                                                                                                                                                                                                                                  |

account), L2 (designated account), L3 (standard account, default)

## AccountRemark

Account remarks

Used by actions: ModifyAccountRemark.

| Name     | Type   | Description            |
|----------|--------|------------------------|
| UserName | String | Account name           |
| Remark   | String | New remarks of account |

## Backup

Backup file details

Used by actions: DescribeBackups.

| Name         | Type      | Description                                                                                                                                               |
|--------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| FileName     | String    | File name. The name of an unarchived backup file is returned by the DescribeBackupFiles API instead of this parameter.                                    |
| Size         | Integer   | File size in KB. The size of an unarchived backup file is returned by the DescribeBackupFiles API instead of this parameter.                              |
| StartTime    | Timestamp | Backup start time                                                                                                                                         |
| EndTime      | Timestamp | Backup end time                                                                                                                                           |
| InternalAddr | String    | Private network download address. The download address of an unarchived backup file is returned by the DescribeBackupFiles API instead of this parameter. |
| ExternalAddr | String    | Public network download address. The download address of an unarchived backup file is returned by the DescribeBackupFiles API instead of this parameter.  |
|              |           |                                                                                                                                                           |

|                   |                                            |                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Id                | Integer                                    | Unique ID of a backup file, which is used by the <code>RestoreInstance</code> API. The unique ID of an unarchived backup file is returned by the <code>DescribeBackupFiles</code> API instead of this parameter.                                 |
| Status            | Integer                                    | Backup file status (0: creating, 1: succeeded, 2: failed)                                                                                                                                                                                        |
| DBs               | Array of String                            | List of databases for multi-database backup                                                                                                                                                                                                      |
| Strategy          | Integer                                    | Backup policy (0: instance backup, 1: multi-database backup)                                                                                                                                                                                     |
| BackupWay         | Integer                                    | Backup Mode. Valid values: <code>0</code> (scheduled backup); <code>1</code> (manual backup); <code>2</code> (archive backup).                                                                                                                   |
| BackupName        | String                                     | Backup task name (customizable)                                                                                                                                                                                                                  |
| GroupId           | String                                     | Group ID of unarchived backup files, which can be used as a request parameter in the <code>DescribeBackupFiles</code> API to get details of unarchived backup files in the specified group. This parameter is invalid for archived backup files. |
| BackupFormat      | String                                     | Backup file format. Valid values: <code>pkg</code> (archive file), <code>single</code> (unarchived files).                                                                                                                                       |
| Region            | String                                     | The code of current region where the instance resides                                                                                                                                                                                            |
| CrossBackupAddr   | Array of <a href="#">CrossBackupAddr</a>   | The download address of cross-region backup in target region                                                                                                                                                                                     |
| CrossBackupStatus | Array of <a href="#">CrossRegionStatus</a> | The target region and status of cross-region backup                                                                                                                                                                                              |

## BackupFile

If the backup files are unarchived, each database corresponds to one backup file.

Used by actions: `DescribeBackupFiles`.

| Name     | Type    | Description                |
|----------|---------|----------------------------|
| Id       | Integer | Unique ID of a backup file |
| FileName | String  | Backup file name           |
|          |         |                            |



|                 |                                          |                                                               |
|-----------------|------------------------------------------|---------------------------------------------------------------|
| Size            | Integer                                  | File size in KB                                               |
| DBs             | Array of String                          | Name of the database corresponding to the backup file         |
| DownloadLink    | String                                   | Download address                                              |
| Region          | String                                   | The code of the region where current instance resides         |
| CrossBackupAddr | Array of <a href="#">CrossBackupAddr</a> | The target region and download address of cross-region backup |

## BusinessIntelligenceFile

Business intelligence service file type

Used by actions: DescribeBusinessIntelligenceFile.

| Name       | Type                       | Description                                                                                                                                                                                           |
|------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FileName   | String                     | File name                                                                                                                                                                                             |
| FileType   | String                     | File type                                                                                                                                                                                             |
| FileURL    | String                     | File COS_URL                                                                                                                                                                                          |
| FilePath   | String                     | The file path on the server                                                                                                                                                                           |
| FileSize   | Integer                    | File size in bytes                                                                                                                                                                                    |
| FileMd5    | String                     | File MD5 value                                                                                                                                                                                        |
| Status     | Integer                    | File deployment status. Valid values: <a href="#">1</a> (Initialize to be deployed), <a href="#">2</a> (Deploying), <a href="#">3</a> (Deployment successful), <a href="#">4</a> (Deployment failed). |
| Remark     | String                     | Remarks                                                                                                                                                                                               |
| CreateTime | String                     | File creation time                                                                                                                                                                                    |
| StartTime  | String                     | Start time of file deployment                                                                                                                                                                         |
| EndTime    | String                     | End time of file deployment                                                                                                                                                                           |
| Message    | String                     | Returned error message                                                                                                                                                                                |
| Instanceld | String                     | Business intelligence instance ID                                                                                                                                                                     |
| Action     | <a href="#">FileAction</a> | Operation information                                                                                                                                                                                 |

## CosUploadBackupFile

Querying the size of uploaded backup files.

Used by actions: DescribeBackupUploadSize.

| Name     | Type    | Description |
|----------|---------|-------------|
| FileName | String  | Backup name |
| Size     | Integer | Backup size |

## CrossBackupAddr

All Download addresses of cross-region backup

Used by actions: DescribeBackupFiles, DescribeBackups.

| Name              | Type   | Description                                                                 |
|-------------------|--------|-----------------------------------------------------------------------------|
| CrossRegion       | String | The target region of cross-region backup                                    |
| CrossInternalAddr | String | The address used to download the cross-region backup over a private network |
| CrossExternalAddr | String | The address used to download the cross-region backup over a public network  |

## CrossRegionStatus

The target region and status of cross-region backup

Used by actions: DescribeBackups.

| Name        | Type    | Description                                                                                                                                                             |
|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CrossRegion | String  | The target region of cross-region backup                                                                                                                                |
| CrossStatus | Integer | Synchronization status of cross-region backup. Valid values: <code>0</code> (creating), <code>1</code> (succeeded), <code>2</code> : (failed), <code>4</code> (syncing) |

## DBCreateInfo

Database creation information

Used by actions: CreateDB.

| Name     | Type                                      | Required | Description                                                                                                                     |
|----------|-------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------|
| DBName   | String                                    | Yes      | Database name                                                                                                                   |
| Charset  | String                                    | No       | Character set, which can be queried by the <code>DescribeDBCharsets</code> API. Default value: <code>Chinese_PRC_CI_AS</code> . |
| Accounts | Array of <a href="#">AccountPrivilege</a> | No       | Database account permission information                                                                                         |
| Remark   | String                                    | No       | Remarks                                                                                                                         |

## DBDetail

Database information

Used by actions: DescribeDBs.

| Name           | Type                                      | Description                                                                               |
|----------------|-------------------------------------------|-------------------------------------------------------------------------------------------|
| Name           | String                                    | Database name                                                                             |
| Charset        | String                                    | Character set                                                                             |
| Remark         | String                                    | Remarks                                                                                   |
| CreateTime     | Timestamp                                 | Database creation time                                                                    |
| Status         | Integer                                   | Database status. 1: creating, 2: running, 3: modifying, -1: dropping                      |
| Accounts       | Array of <a href="#">AccountPrivilege</a> | Database account permission information                                                   |
| InternalStatus | String                                    | Internal status. ONLINE: running                                                          |
| Encryption     | String                                    | TDE status. Valid values: <code>enable</code> (enabled), <code>disable</code> (disabled). |

# DBInstance

Instance details

Used by actions: DescribeDBInstances.

| Name       | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| InstanceId | String  | Instance ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Name       | String  | Instance name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ProjectId  | Integer | Project ID of instance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RegionId   | Integer | Instance region ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ZoneId     | Integer | Instance AZ ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VpcId      | Integer | Instance VPC ID, which will be 0 if the basic network is used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SubnetId   | Integer | Instance VPC subnet ID, which will be 0 if the basic network is used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Status     | Integer | Instance status. Valid values: <ul style="list-style-type: none"><li>1: creating</li><li>2: running</li><li>3: instance operations restricted (due to the ongoing primary-replica switch)</li><li>4: isolated</li><li>5: repossessing</li><li>6: repossessed</li><li>7: running tasks (such as backup and rollback tasks)</li><li>8: eliminated</li><li>9: expanding capacity</li><li>10: migrating</li><li>11: read-only</li><li>12: restarting</li><li>13: modifying configuration and waiting for switch</li><li>14: implementing pub/sub</li><li>15: modifying pub/sub configuration</li><li>16: modifying configuration and switching</li><li>17: creating read-only instances</li></ul> |
| Vip        | String  | Instance access IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Vport      | Integer | Instance access port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CreateTime  | Timestamp | Instance creation time                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UpdateTime  | Timestamp | Instance update time                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| StartTime   | Timestamp | Instance billing start time                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| EndTime     | Timestamp | Instance billing end time                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| IsolateTime | Timestamp | Instance isolation time                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Memory      | Integer   | Instance memory size in GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UsedStorage | Integer   | Used storage capacity of instance in GB                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage     | Integer   | Instance storage capacity in GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| VersionName | String    | Instance version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| RenewFlag   | Integer   | Instance renewal flag                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Model       | Integer   | Instance disaster recovery type. 1: dual-server high availability; 2: single-node; 3: cross-AZ; 4: cross-AZ cluster; 5: cluster; 6: multi-node cluster; 7: multi-node cross-AZ cluster.                                                                                                                                                                                                                                                                                                            |
| Region      | String    | Instance region name, such as ap-guangzhou                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Zone        | String    | Instance AZ name, such as ap-guangzhou-1                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| BackupTime  | String    | Backup time point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PayMode     | Integer   | Instance billing mode. 0: pay-as-you-go                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Uid         | String    | Instance UID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cpu         | Integer   | Number of CPU cores of instance                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Version     | String    | Instance version code                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Type        | String    | Instance type. Valid values: <code>TS85</code> (physical machine, local SSD), <code>Z3</code> (early version of physical machine, local SSD), <code>CLOUD_BASIC</code> (virtual machine, HDD cloud disk), <code>CLOUD_PREMIUM</code> (virtual machine, premium cloud disk), <code>CLOUD_SSD</code> (virtual machine, SSD), <code>CLOUD_HSSD</code> (virtual machine, enhanced SSD), <code>CLOUD_TSSD</code> (virtual machine, ultra SSD), <code>CLOUD_BSSD</code> (virtual machine, balanced SSD). |
| Pid         | Integer   | Billing ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                 |                                      |                                                                                                                                                                                                                                                                                                                       |
|-----------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniqVpcId       | String                               | Unique string-type ID of instance VPC in the format of <code>vpc-xxx</code> , which is an empty string if the basic network is used                                                                                                                                                                                   |
| UniqSubnetId    | String                               | Unique string-type ID of instance subnet in the format of <code>subnet-xxx</code> , which is an empty string if the basic network is used                                                                                                                                                                             |
| IsolateOperator | String                               | Instance isolation operation.                                                                                                                                                                                                                                                                                         |
| SubFlag         | String                               | Publishing/Subscription flag. SUB: subscription instance; PUB: publishing instance. If this parameter is left blank, the instance is an ordinary instance that does not involve publishing or subscription.                                                                                                           |
| ROFlag          | String                               | Read-only flag. RO: read-only instance; MASTER: primary instance bound to a read-only instance. If this parameter is left blank, the instance is not a read-only instance and is not in any read-only group.                                                                                                          |
| HAFlag          | String                               | Disaster recovery type. MIRROR: image; ALWAYSON: Always On; SINGLE: single instance.                                                                                                                                                                                                                                  |
| ResourceTags    | Array of <a href="#">ResourceTag</a> | Note: This field may return null, indicating that no valid values can be obtained.                                                                                                                                                                                                                                    |
| BackupModel     | String                               | Backup mode. master_pkg: backup on the primary node (default value); master_no_pkg: no backup on the primary node; slave_pkg: backup on secondary nodes (valid for Always On clusters); slave_no_pkg: no backup on secondary nodes (valid for Always On clusters). This parameter is invalid for read-only instances. |
| InstanceNote    | String                               | Instance backup information.                                                                                                                                                                                                                                                                                          |
| BackupCycle     | Array of Integer                     | Backup cycle                                                                                                                                                                                                                                                                                                          |
| BackupCycleType | String                               | Backup cycle type. Valid values: <code>daily</code> , <code>weekly</code> , <code>monthly</code> .                                                                                                                                                                                                                    |
| BackupSaveDays  | Integer                              | Data (log) backup retention period                                                                                                                                                                                                                                                                                    |
| InstanceType    | String                               | Instance type. HA: high-availability instance; RO: read-only instance; SI: basic edition instance; BI: business intelligence service instance; cvmHA: high-availability instance with cloud disk; cvmRO: read-only instance with cloud disk;                                                                          |

|                     |                                     |                                                                                                                            |
|---------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|                     |                                     | MultiHA: multi-node instance; cvmMultiHA: multi-node instance with cloud disk.                                             |
| CrossRegions        | Array of String                     | The target region of cross-region backup. If this parameter left empty, it indicates that cross-region backup is disabled. |
| CrossBackupEnabled  | String                              | Cross-region backup status. Valid values: <code>enable</code> (enabled), <code>disable</code> (disabled)                   |
| CrossBackupSaveDays | Integer                             | The retention period of cross-region backup. Default value: 7 days                                                         |
| DnsPodDomain        | String                              | Domain name of the public network address                                                                                  |
| TgwWanVPort         | Integer                             | Port number of the public network                                                                                          |
| Collation           | String                              | Collation of system character sets. Default value: <code>Chinese_PRC_CI_AS</code> .                                        |
| TimeZone            | String                              | System time zone. Default value: <code>China Standard Time</code> .                                                        |
| IsDrZone            | Boolean                             | Whether the instance is deployed across AZs                                                                                |
| SlaveZones          | <a href="#">SlaveZones</a>          | Secondary AZ information on the two-node instance.                                                                         |
| Architecture        | String                              | Architecture flag. SINGLE: single-node; DOUBLE: two-node.                                                                  |
| Style               | String                              | Type flag. EXCLUSIVE: exclusive; SHARED: shared.                                                                           |
| MultiSlaveZones     | Array of <a href="#">SlaveZones</a> |                                                                                                                            |

## DBPrivilege

Database permission information of account

Used by actions: CreateAccount, DescribeAccounts.

| Name      | Type   | Required | Description                                                                                                                              |
|-----------|--------|----------|------------------------------------------------------------------------------------------------------------------------------------------|
| DBName    | String | Yes      | Database name                                                                                                                            |
| Privilege | String | Yes      | Database permissions. Valid values: <code>ReadWrite</code> (read-write), <code>ReadOnly</code> (read-only), <code>DBOwner</code> (owner) |

## DBPrivilegeModifyInfo

Database permission change information

Used by actions: ModifyAccountPrivilege.

| Name      | Type   | Required | Description                                                                                                                                                                                                                      |
|-----------|--------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DBName    | String | Yes      | Database name                                                                                                                                                                                                                    |
| Privilege | String | Yes      | Permission modification information. Valid values: <code>ReadWrite</code> (read-write), <code>ReadOnly</code> (read-only), <code>Delete</code> (delete the account's permission to this database), <code>DBOwner</code> (owner). |

## DBRemark

Database remarks

Used by actions: ModifyDBRemark.

| Name   | Type   | Required | Description   |
|--------|--------|----------|---------------|
| Name   | String | Yes      | Database name |
| Remark | String | Yes      | Remarks       |

## DBRenameRes

Database renaming response parameter

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

| Name    | Type   | Description              |
|---------|--------|--------------------------|
| NewName | String | Name of the new database |
| OldName | String | Name of the old database |

## DBTDEEncrypt



This example shows you how to enable or disable TDE of a database.

Used by actions: ModifyDBEncryptAttributes.

| Name       | Type   | Required | Description                                                                               |
|------------|--------|----------|-------------------------------------------------------------------------------------------|
| DBName     | String | No       |                                                                                           |
| Encryption | String | No       | TDE status. Valid values: <code>enable</code> (enabled), <code>disable</code> (disabled). |

## DbNormalDetail

Database configurations

Used by actions: DescribeDBsNormal.

| Name                      | Type   | Description                                                                                                                                                             |
|---------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IsSubscribed              | String | Whether it is subscribed. Valid values: <code>0</code> (no), <code>1</code> (yes)                                                                                       |
| CollationName             | String | Database collation                                                                                                                                                      |
| IsAutoCleanupOn           | String | Whether the cleanup task is enabled to automatically remove old change tracking information when CT is enabled. Valid values: <code>0</code> (no), <code>1</code> (yes) |
| IsBrokerEnabled           | String | Whether SQL Server Service Broker is enabled. Valid values: <code>0</code> (no), <code>1</code> (yes)                                                                   |
| IsCdcEnabled              | String | Whether CDC is enabled. Valid values: <code>0</code> (disabled), <code>1</code> (enabled)                                                                               |
| IsDbChainingOn            | String | Whether CT is enabled. Valid values: <code>0</code> (disabled), <code>1</code> (enabled)                                                                                |
| IsEncrypted               | String | Whether it is encrypted. Valid values: <code>0</code> (no), <code>1</code> (yes)                                                                                        |
| IsMirroring               | String | Whether it is a mirror database. Valid values: <code>0</code> (no), <code>1</code> (yes)                                                                                |
| IsPublished               | String | Whether it is published. Valid values: <code>0</code> (no), <code>1</code> (yes)                                                                                        |
| IsReadCommittedSnapshotOn | String | Whether snapshots are enabled. Valid values: <code>0</code> (no), <code>1</code> (yes)                                                                                  |
|                           |        |                                                                                                                                                                         |

|                   |        |                                                                                    |
|-------------------|--------|------------------------------------------------------------------------------------|
| IsTrustworthyOn   | String | Whether it is trustworthy. Valid values: <code>0</code> (no), <code>1</code> (yes) |
| MirroringState    | String | Mirroring state                                                                    |
| Name              | String | Database name                                                                      |
| RecoveryModelDesc | String | Recovery model                                                                     |
| RetentionPeriod   | String | Retention period (in days) of change tracking information                          |
| StateDesc         | String | Database status                                                                    |
| UserAccessDesc    | String | User type                                                                          |
| CreateTime        | String | Database creation time                                                             |

## DbRollbackTimeInfo

Information of time range available for database rollback

Used by actions: DescribeRollbackTime.

| Name      | Type      | Description                                     |
|-----------|-----------|-------------------------------------------------|
| DBName    | String    | Database name                                   |
| StartTime | Timestamp | Start time of time range available for rollback |
| EndTime   | Timestamp | End time of time range available for rollback   |

## DealInfo

Order information

Used by actions: DescribeOrders.

| Name     | Type    | Description                                                                 |
|----------|---------|-----------------------------------------------------------------------------|
| DealName | String  | Order name                                                                  |
| Count    | Integer | Number of items                                                             |
| FlowId   | Integer | ID of associated flow, which can be used to query the flow execution status |
|          |         |                                                                             |

|                    |                 |                                                                                                                           |
|--------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| InstanceldSet      | Array of String | This field is required only for an order that creates an instance, indicating the ID of the instance created by the order |
| OwnerUin           | String          | Account                                                                                                                   |
| InstanceChargeType | String          | Instance billing type                                                                                                     |

## DealInstance

List of the resource IDs corresponding to order number

Used by actions: DescribeInstanceByOrders.

| Name       | Type            | Description |
|------------|-----------------|-------------|
| Instanceld | Array of String | Instance ID |
| DealName   | String          | Order ID    |

## DrReadableInfo

Replica server read-only information

Used by actions: DescribeDBInstancesAttribute.

| Name           | Type    | Description                                                                                                                                                              |
|----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SlaveStatus    | String  | Replica server status. Valid values: enable – running; disable – unavailable<br>Note: This field may return null, indicating that no valid values can be obtained.       |
| ReadableStatus | String  | Replica server readable status. Valid values: enable – enabled; disable – disabled<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Vip            | String  | Replica server read-only VIP<br>Note: This field may return null, indicating that no valid values can be obtained.                                                       |
| VPort          | Integer | Replica server read-only port                                                                                                                                            |

|              |        |                                                                                                                    |
|--------------|--------|--------------------------------------------------------------------------------------------------------------------|
|              |        | Note: This field may return null, indicating that no valid values can be obtained.                                 |
| UniqVpcId    | String | Replica server VPC ID<br>Note: This field may return null, indicating that no valid values can be obtained.        |
| UniqSubnetId | String | Replica server VPC subnet ID<br>Note: This field may return null, indicating that no valid values can be obtained. |

## DrZoneInfo

AZ information on the secondary node.

Used by actions: UpgradeDBInstance.

| Name         | Type   | Required | Description                        |
|--------------|--------|----------|------------------------------------|
| DrInstanceId | String | No       | Resource ID of the secondary node. |
| Zone         | String | No       | AZ of the secondary node.          |

## EventConfig

Threshold setting for an extended event

Used by actions: StartInstanceXEvent.

| Name      | Type    | Required | Description                                                                                                                                    |
|-----------|---------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|
| EventType | String  | Yes      | Event type. Valid values: <code>slow</code> (set threshold for slow SQL ), <code>blocked</code> (set threshold for the blocking and deadlock). |
| Threshold | Integer | Yes      | Threshold in milliseconds. Valid values: <code>0</code> (disable), <code>non-zero</code> (enable)                                              |

## Events

Details of an extended event

Used by actions: DescribeXEvents.

| Name         | Type    | Description                                                                                                                                  |
|--------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Id           | Integer | ID                                                                                                                                           |
| FileName     | String  | File name of an extended event                                                                                                               |
| Size         | Integer | File size of an extended event                                                                                                               |
| EventType    | String  | Event type. Valid values: <code>slow</code> (Slow SQL event), <code>blocked</code> (blocking event), <code>deadlock</code> (deadlock event). |
| Status       | Integer | Event record status. Valid values: <code>1</code> (succeeded), <code>2</code> (failed).                                                      |
| StartTime    | String  | Generation start time of an extended file                                                                                                    |
| EndTime      | String  | Generation end time of an extended file                                                                                                      |
| InternalAddr | String  | Download address on the private network                                                                                                      |
| ExternalAddr | String  | Download address on the public network                                                                                                       |

## FileAction

Information of allowed operation

Used by actions: DescribeBusinessIntelligenceFile.

| Name          | Type            | Description                                                                                                                                                                   |
|---------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AllAction     | Array of String | Allowed operations. Valid values: <code>view</code> (view list), <code>remark</code> (modify remark), <code>deploy</code> (deploy files), <code>delete</code> (delete files). |
| AllowedAction | Array of String | Operation allowed in the current status. If the subset of <code>AllAction</code> is empty, no operations will be allowed.                                                     |

## InstanceDBDetail

Instance database information

Used by actions: DescribeDBs.

| Name       | Type                              | Description               |
|------------|-----------------------------------|---------------------------|
| Instanceld | String                            | Instance ID               |
| DBDetails  | Array of <a href="#">DBDetail</a> | Database information list |

## InterInstance

Details of instances in the interworking group

Used by actions: DescribeDBInstanceInter.

| Name        | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instanceld  | String  | Instance ID                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| InterVip    | String  | Instance interworking IP, which can be accessed after the instance is added to the interworking group.                                                                                                                                                                                                                                                                                                                                              |
| InterPort   | Integer | Instance interworking port, which can be accessed after the instance is added to the interworking group.                                                                                                                                                                                                                                                                                                                                            |
| Status      | Integer | Instance interworking status. Valid values: <a href="#">1</a> (Enabling interworking IP), <a href="#">2</a> (Enabled interworking IP), <a href="#">3</a> (Adding to interworking group), <a href="#">4</a> (Added to interworking group), <a href="#">5</a> (Reclaiming interworking IP), <a href="#">6</a> (Reclaimed interworking IP), <a href="#">7</a> (Removing from interworking group), <a href="#">8</a> (Removed from interworking group). |
| Region      | String  | Instance region, such as ap-guangzhou.                                                                                                                                                                                                                                                                                                                                                                                                              |
| Zone        | String  | Instance AZ name, such as ap-guangzhou-1.                                                                                                                                                                                                                                                                                                                                                                                                           |
| Version     | String  | Instance version code                                                                                                                                                                                                                                                                                                                                                                                                                               |
| VersionName | String  | Instance version                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Name        | String  | Instance name                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Vip         | String  | Instance access IP                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Vport       | Integer | Instance access port                                                                                                                                                                                                                                                                                                                                                                                                                                |

## InterInstanceFlow

Instance status after enabling or disabling the interworking group

Used by actions: CloseInterCommunication, OpenInterCommunication.

| Name       | Type    | Description                                                                                                                                                                                                   |
|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instanceld | String  | Instance ID, such as mssql-sdf32n1d.                                                                                                                                                                          |
| FlowId     | Integer | Instance task ID for enabling or disabling the interworking group. When <code>FlowId</code> is less than 0, the interworking group will be enabled or disabled successfully; otherwise, the operation failed. |

## MigrateDB

List of databases to be migrated

Used by actions: CreateMigration, DescribeMigrationDetail, ModifyMigration.

| Name   | Type   | Required | Description               |
|--------|--------|----------|---------------------------|
| DBName | String | No       | Name of migrated database |

## MigrateDetail

Migration progress details

Used by actions: DescribeMigrations.

| Name     | Type    | Description                   |
|----------|---------|-------------------------------|
| StepName | String  | Name of current step          |
| Progress | Integer | Progress of current step in % |

## MigrateSource

Source type of migration task

Used by actions: CreateMigration, DescribeMigrationDetail, ModifyMigration.

| Name | Type | Required | Description |
|------|------|----------|-------------|
|      |      |          |             |

|             |                 |    |                                                                                                                                                                                    |
|-------------|-----------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instanceld  | String          | No | Source instance ID in the format of <code>mssql-si2823jyl</code> , which is used when <code>MigrateType</code> is 1 (TencentDB for SQL Server)                                     |
| Cvmld       | String          | No | ID of source CVM instance, which is used when <code>MigrateType</code> is 2 (CVM-based self-created SQL Server database)                                                           |
| Vpcld       | String          | No | VPC ID of source CVM instance in the format of <code>vpc-6ys9ont9</code> , which is used when <code>MigrateType</code> is 2 (CVM-based self-created SQL Server database)           |
| Subnetld    | String          | No | VPC subnet ID of source CVM instance in the format of <code>subnet-h9extioi</code> , which is used when <code>MigrateType</code> is 2 (CVM-based self-created SQL Server database) |
| UserName    | String          | No | Username, which is used when <code>MigrateType</code> is 1 or 2                                                                                                                    |
| Password    | String          | No | Password, which is used when <code>MigrateType</code> is 1 or 2                                                                                                                    |
| Ip          | String          | No | Private IP of source CVM database, which is used when <code>MigrateType</code> is 2 (CVM-based self-created SQL Server database)                                                   |
| Port        | Integer         | No | Port number of source CVM database, which is used when <code>MigrateType</code> is 2 (CVM-based self-created SQL Server database)                                                  |
| Url         | Array of String | No | Source backup address for offline migration, which is used when <code>MigrateType</code> is 4 or 5                                                                                 |
| UrlPassword | String          | No | Source backup password for offline migration, which is used when <code>MigrateType</code> is 4 or 5                                                                                |

## MigrateTarget

Target type of migration task

Used by actions: CreateMigration, DescribeMigrationDetail, ModifyMigration.

| Name       | Type   | Required | Description                                                         |
|------------|--------|----------|---------------------------------------------------------------------|
| Instanceld | String | No       | ID of target instance in the format of <code>mssql-si2823jyl</code> |
|            |        |          |                                                                     |



|          |        |    |                                       |
|----------|--------|----|---------------------------------------|
| UserName | String | No | Username of migration target instance |
| Password | String | No | Password of migration target instance |

## MigrateTask

Migration task type

Used by actions: DescribeMigrations.

| Name          | Type                          | Description                                                                                                                                                                                               |
|---------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MigrateId     | Integer                       | Migration task ID                                                                                                                                                                                         |
| MigrateName   | String                        | Migration task name                                                                                                                                                                                       |
| Appld         | Integer                       | User ID of migration task                                                                                                                                                                                 |
| Region        | String                        | Migration task region                                                                                                                                                                                     |
| SourceType    | Integer                       | Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup restoration, 4: SQL Server backup restoration (in COS mode)                       |
| CreateTime    | Timestamp                     | Migration task creation time                                                                                                                                                                              |
| StartTime     | Timestamp                     | Migration task start time                                                                                                                                                                                 |
| EndTime       | Timestamp                     | Migration task end time                                                                                                                                                                                   |
| Status        | Integer                       | Migration task status (1: initializing, 4: migrating, 5: migration failed, 6: migration succeeded, 7: suspended, 8: deleted, 9: suspending, 10: completing, 11: suspension failed, 12: completion failed) |
| Message       | String                        | Information                                                                                                                                                                                               |
| CheckFlag     | Integer                       | Whether migration task has been checked (0: not checked, 1: check succeeded, 2: check failed, 3: checking)                                                                                                |
| Progress      | Integer                       | Migration task progress in %                                                                                                                                                                              |
| MigrateDetail | <a href="#">MigrateDetail</a> | Migration task progress details                                                                                                                                                                           |

## Migration

## Cold backup migration import

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

| Name          | Type                            | Description                                                                                                                                                                                                                                                                              |
|---------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MigrationId   | String                          | Backup import task ID or incremental import task ID                                                                                                                                                                                                                                      |
| MigrationName | String                          | Backup import task name. For an incremental import task, this field will be left empty.<br>Note: this field may return 'null', indicating that no valid values can be obtained.                                                                                                          |
| AppId         | Integer                         | Application ID                                                                                                                                                                                                                                                                           |
| Region        | String                          | Region                                                                                                                                                                                                                                                                                   |
| InstanceId    | String                          | ID of migrated target instance                                                                                                                                                                                                                                                           |
| RecoveryType  | String                          | Migration task restoration type                                                                                                                                                                                                                                                          |
| UploadType    | String                          | Backup user upload type. COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user.                                                               |
| BackupFiles   | Array of String                 | Backup file list, which is determined by UploadType. If the upload type is COS_URL, URL will be saved. If the upload type is COS_UPLOAD, the backup name will be saved.                                                                                                                  |
| Status        | Integer                         | Migration task status. Valid values: <code>2</code> (Creation completed), <code>7</code> (Importing full backups), <code>8</code> (Waiting for incremental backups), <code>9</code> (Import success), <code>10</code> (Import failure), <code>12</code> (Importing incremental backups). |
| CreateTime    | String                          | Migration task creation time                                                                                                                                                                                                                                                             |
| StartTime     | String                          | Migration task start time                                                                                                                                                                                                                                                                |
| EndTime       | String                          | Migration task end time                                                                                                                                                                                                                                                                  |
| Message       | String                          | More information                                                                                                                                                                                                                                                                         |
| Detail        | <a href="#">MigrationDetail</a> | Migration detail                                                                                                                                                                                                                                                                         |
| Action        | <a href="#">MigrationAction</a> | Operation allowed in the current status                                                                                                                                                                                                                                                  |
| IsRecovery    | String                          | Whether this is the final restoration. For a full import task, this                                                                                                                                                                                                                      |

|          |                                      |                                                                                                                     |
|----------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|          |                                      | field will be left empty.<br>Note: this field may return 'null', indicating that no valid values can be obtained.   |
| DBRename | Array of <a href="#">DBRenameRes</a> | Name set of renamed databases<br>Note: This field may return null, indicating that no valid values can be obtained. |

## MigrationAction

Operation allowed by a cold backup import task

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

| Name          | Type            | Description                                                                                                                                                                                                                                |
|---------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AllAction     | Array of String | All the allowed operations. Values include: view (viewing a task), modify (modifying a task), start (starting a task), incremental (creating an incremental task), delete (deleting a task), and upload (obtaining the upload permission). |
| AllowedAction | Array of String | Operation allowed in the current status. If the subset of AllAction is left empty, no operations will be allowed.                                                                                                                          |

## MigrationDetail

Details of a cold backup import task

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

| Name     | Type                                   | Description                                                                                                                                          |
|----------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| StepAll  | Integer                                | Total number of steps                                                                                                                                |
| StepNow  | Integer                                | Current step                                                                                                                                         |
| Progress | Integer                                | Overall progress. For example, "30" means 30%.                                                                                                       |
| StepInfo | Array of <a href="#">MigrationStep</a> | Step information. 'null' means the migration has not started<br>Note: this field may return 'null', indicating that no valid values can be obtained. |

## MigrationStep

Migration steps of a cold backup import task

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

| Name     | Type    | Description                                                                                 |
|----------|---------|---------------------------------------------------------------------------------------------|
| StepNo   | Integer | Step sequence                                                                               |
| StepName | String  | Step name                                                                                   |
| StepId   | String  | Step ID in English                                                                          |
| Status   | Integer | Step status: 0 (default value), 1 (succeeded), 2 (failed), 3 (in progress), 4 (not started) |

## OldVip

This API is used to return the number of unrecovered IP addresses for the instance.

Used by actions: DescribeDBInstancesAttribute.

| Name            | Type    | Description                                                                                                         |
|-----------------|---------|---------------------------------------------------------------------------------------------------------------------|
| Vip             | String  | Unrecovered old IP addresses                                                                                        |
| RecycleTime     | String  | IP recovery time                                                                                                    |
| OldIpRetainTime | Integer | Old IP retention time (hours)<br>Note: This field may return null, indicating that no valid values can be obtained. |

## ParamRecord

Instance parameter modification record

Used by actions: DescribeInstanceParamRecords.

| Name       | Type   | Description |
|------------|--------|-------------|
| InstanceId | String | Instance ID |
|            |        |             |

|            |         |                                                                                                                                                                                                                  |
|------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ParamName  | String  | Parameter name                                                                                                                                                                                                   |
| OldValue   | String  | Parameter value before modification                                                                                                                                                                              |
| NewValue   | String  | Parameter value after modification                                                                                                                                                                               |
| Status     | Integer | Parameter modification status. Valid values: <code>1</code> (initializing and waiting for modification), <code>2</code> (modification succeed), <code>3</code> (modification failed), <code>4</code> (modifying) |
| ModifyTime | String  | Modification time                                                                                                                                                                                                |

## Parameter

Database instance parameter

Used by actions: ModifyInstanceParam.

| Name         | Type   | Required | Description     |
|--------------|--------|----------|-----------------|
| Name         | String | No       | Parameter name  |
| CurrentValue | String | No       | Parameter value |

## ParameterDetail

Instance parameter details

Used by actions: DescribeInstanceParams.

| Name         | Type    | Description                                                                                                                                   |
|--------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Name         | String  | Parameter name                                                                                                                                |
| ParamType    | String  | Data type of the parameter. Valid values: <code>integer</code> , <code>enum</code>                                                            |
| Default      | String  | Default value of the parameter                                                                                                                |
| Description  | String  | Parameter description                                                                                                                         |
| CurrentValue | String  | Current value of the parameter                                                                                                                |
| NeedReboot   | Integer | Whether the database needs to be restarted for the modified parameter to take effect. Valid values: <code>0</code> (no), <code>1</code> (yes) |

|           |                 |                                                           |
|-----------|-----------------|-----------------------------------------------------------|
| Max       | Integer         | Maximum value of the parameter                            |
| Min       | Integer         | Minimum value of the parameter                            |
| EnumValue | Array of String | Enumerated values of the parameter                        |
| Status    | Integer         | Parameter status. Valid values: 0 (normal), 1 (modifying) |

## Price

Used by actions: DescribeSpecSellStatus.

| Name              | Type    | Description |
|-------------------|---------|-------------|
| PrepaidPrice      | Integer |             |
| PrepaidPriceUnit  | String  |             |
| PostpaidPrice     | Integer |             |
| PostpaidPriceUnit | String  |             |

## RegionInfo

Region information

Used by actions: DescribeRegions.

| Name        | Type    | Description                                                                                 |
|-------------|---------|---------------------------------------------------------------------------------------------|
| Region      | String  | Region ID in the format of ap-guangzhou                                                     |
| RegionName  | String  | Region name                                                                                 |
| RegionId    | Integer | Numeric ID of region                                                                        |
| RegionState | String  | Current purchasability of this region. UNAVAILABLE: not purchasable, AVAILABLE: purchasable |

## RenameRestoreDatabase

It is used to specify and rename the database to be restored through the `RestoreInstance` , `RollbackInstance` , `CreateMigration` , `CloneDB` or `ModifyBackupMigration` APIs.

Used by actions: CloneDB, CreateMigration, ModifyBackupMigration, RestoreInstance, RollbackInstance.

| Name    | Type   | Required | Description                                                                                                                                                                                                                                                                                                       |
|---------|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OldName | String | No       | Database name. If the <code>OldName</code> database does not exist, a failure will be returned.<br>It can be left empty in offline migration tasks.                                                                                                                                                               |
| NewName | String | No       | New database name. In offline migration, <code>OldName</code> will be used if <code>NewName</code> is left empty ( <code>OldName</code> and <code>NewName</code> cannot be both empty). In database cloning, <code>OldName</code> and <code>NewName</code> must be both specified and cannot have the same value. |

## ResourceTag

The information of tags associated with instances

Used by actions: CreateBasicDBInstances, CreateBusinessDBInstances, CreateCloudDBInstances, CreateCloudReadOnlyDBInstances, CreateDBInstances, CreateReadOnlyDBInstances, DescribeDBInstances.

| Name     | Type   | Required | Description |
|----------|--------|----------|-------------|
| TagKey   | String | No       | Tag key     |
| TagValue | String | No       | Tag value   |

## SSLConfig

Used by actions: DescribeDBInstancesAttribute.

| Name              | Type    | Description |
|-------------------|---------|-------------|
| Encryption        | String  |             |
| SSLValidityPeriod | String  |             |
| SSLValidity       | Integer |             |

## SlaveZones

Replica AZ information

Used by actions: DescribeDBInstances.

| Name          | Type   | Description            |
|---------------|--------|------------------------|
| SlaveZone     | String | Replica AZ region code |
| SlaveZoneName | String | Replica AZ             |

## SlowLog

Slow query log file information

Used by actions: DescribeSlowlogs.

| Name         | Type      | Description                                                                                                           |
|--------------|-----------|-----------------------------------------------------------------------------------------------------------------------|
| Id           | Integer   | Unique ID of slow query log file                                                                                      |
| StartTime    | Timestamp | File generation start time                                                                                            |
| EndTime      | Timestamp | File generation end time                                                                                              |
| Size         | Integer   | File size in KB                                                                                                       |
| Count        | Integer   | Number of logs in file                                                                                                |
| InternalAddr | String    | Download address for private network                                                                                  |
| ExternalAddr | String    | Download address for public network                                                                                   |
| Status       | Integer   | Status (1: success, 2: failure)<br>Note: this field may return null, indicating that no valid values can be obtained. |

## SpecInfo

Information of purchasable specification for an instance



Used by actions: DescribeProductConfig.

| Name             | Type             | Description                                                                                                                                                                                                                                                                     |
|------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SpecId           | Integer          | Instance specification ID. The <code>SpecId</code> returned by <code>DescribeZones</code> together with the purchasable specification information returned by <code>DescribeProductConfig</code> can be used to find out what specifications can be purchased in a specified AZ |
| MachineType      | String           | Model ID                                                                                                                                                                                                                                                                        |
| MachineTypeName  | String           | Model name                                                                                                                                                                                                                                                                      |
| Version          | String           | Database version information. Valid values: 2008R2 (SQL Server 2008 Enterprise), 2012SP3 (SQL Server 2012 Enterprise), 2016SP1 (SQL Server 2016 Enterprise), 201602 (SQL Server 2016 Standard), 2017 (SQL Server 2017 Enterprise)                                               |
| VersionName      | String           | Version name corresponding to the <code>Version</code> field                                                                                                                                                                                                                    |
| Memory           | Integer          | Memory size in GB                                                                                                                                                                                                                                                               |
| CPU              | Integer          | Number of CPU cores                                                                                                                                                                                                                                                             |
| MinStorage       | Integer          | Minimum disk size under this specification in GB                                                                                                                                                                                                                                |
| MaxStorage       | Integer          | Maximum disk size under this specification in GB                                                                                                                                                                                                                                |
| QPS              | Integer          | QPS of this specification                                                                                                                                                                                                                                                       |
| SuitInfo         | String           | Description of this specification                                                                                                                                                                                                                                               |
| Pid              | Integer          | Pid of this specification                                                                                                                                                                                                                                                       |
| PostPid          | Array of Integer | Pay-as-you-go Pid list corresponding to this specification<br>Note: this field may return null, indicating that no valid values can be obtained.                                                                                                                                |
| PayModeStatus    | String           | Billing mode under this specification. POST: pay-as-you-go                                                                                                                                                                                                                      |
| InstanceType     | String           | Instance type. Valid values: HA (High-Availability Edition, including dual-server high availability and AlwaysOn cluster), RO (read-only replica), SI (Basic Edition)                                                                                                           |
| MultiZonesStatus | String           | Whether multi-AZ deployment is supported. Valid values: MultiZones (only multi-AZ deployment is supported), SameZones (only single-AZ deployment is supported), ALL (both deployments are supported)                                                                            |

## SpecSellStatus

Used by actions: DescribeSpecSellStatus.

| Name             | Type                                | Description |
|------------------|-------------------------------------|-------------|
| Id               | String                              |             |
| SpecId           | Integer                             |             |
| PayModeStatus    | String                              |             |
| InstanceType     | String                              |             |
| MultiZonesStatus | String                              |             |
| Architecture     | String                              |             |
| Style            | String                              |             |
| Version          | String                              |             |
| ZoneStatusSet    | Array of <a href="#">ZoneStatus</a> |             |
| Price            | <a href="#">Price</a>               |             |
| Status           | Integer                             |             |

## TDEConfigAttribute

TDE configuration

Used by actions: DescribeDBInstancesAttribute.

| Name                   | Type   | Description                                                                                                                                                                           |
|------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Encryption             | String | TDE status. Valid values: <code>enable</code> (enabled), <code>disable</code> (disabled).                                                                                             |
| CertificateAttribution | String | Certificate ownership. Valid values: <code>self</code> (certificate of the this account), <code>others</code> (certificate of the other account), <code>none</code> (no certificate). |
| QuoteUin               | String | Note: This field may return null, indicating that no valid values can be obtained.                                                                                                    |

## ZoneInfo

AZ information

Used by actions: DescribeZones.

| Name     | Type    | Description                                                                                                                                                                                                                                                                              |
|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Zone     | String  | AZ ID in the format of ap-guangzhou-1 (i.e., Guangzhou Zone 1)                                                                                                                                                                                                                           |
| ZoneName | String  | AZ name                                                                                                                                                                                                                                                                                  |
| Zoneld   | Integer | Numeric ID of AZ                                                                                                                                                                                                                                                                         |
| SpecId   | Integer | ID of specification purchasable in this AZ, which, together with the returned value of the <code>DescribeProductConfig</code> API, can be used to find out the specifications currently purchasable in the AZ                                                                            |
| Version  | String  | Information of database versions purchasable under the current AZ and specification. Valid values: 2008R2 (SQL Server 2008 Enterprise), 2012SP3 (SQL Server 2012 Enterprise), 2016SP1 (SQL Server 2016 Enterprise), 201602 (SQL Server 2016 Standard), 2017 (SQL Server 2017 Enterprise) |

## ZoneStatus

Used by actions: DescribeSpecSellStatus.

| Name   | Type    | Description |
|--------|---------|-------------|
| Zone   | String  |             |
| Region | String  |             |
| Status | Integer |             |

# Error Codes

最近更新时间：2024-07-08 20:20:26

## Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

## Error Code List

### Common Error Codes

| Error Code                       | Description                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ActionOffline                    | This API has been deprecated.                                                                                                                                                                        |
| AuthFailure.InvalidAuthorization | Authorization in the request header is invalid.                                                                                                                                                      |
| AuthFailure.InvalidSecretId      | Invalid key (not a TencentCloud API key type).                                                                                                                                                       |
| AuthFailure.MFAFailure           | MFA failed.                                                                                                                                                                                          |
| AuthFailure.SecretIdNotFound     | Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key. |
| AuthFailure.SignatureExpire      | Signature expired. Timestamp and server time                                                                                                                                                         |

|                                                   |                                                                                                                                                               |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | cannot differ by more than five minutes. Please ensure your current local time matches the standard time.                                                     |
| AuthFailure.SignatureFailure                      | Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation. |
| AuthFailure.TokenFailure                          | Token error.                                                                                                                                                  |
| AuthFailure.UnauthorizedOperation                 | The request is not authorized. For more information, see the <a href="#">CAM</a> documentation.                                                               |
| DryRunOperation                                   | DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.                                                          |
| FailedOperation                                   | Operation failed.                                                                                                                                             |
| InternalServerError                               | Internal error.                                                                                                                                               |
| InvalidAction                                     | The API does not exist.                                                                                                                                       |
| InvalidParameter                                  | Incorrect parameter.                                                                                                                                          |
| InvalidParameterValue                             | Invalid parameter value.                                                                                                                                      |
| InvalidRequest                                    | The multipart format of the request body is incorrect.                                                                                                        |
| IpInBlacklist                                     | Your IP is in uin IP blacklist.                                                                                                                               |
| IpNotInWhitelist                                  | Your IP is not in uin IP whitelist.                                                                                                                           |
| LimitExceeded                                     | Quota limit exceeded.                                                                                                                                         |
| MissingParameter                                  | A parameter is missing.                                                                                                                                       |
| NoSuchProduct                                     | The product does not exist.                                                                                                                                   |
| NoSuchVersion                                     | The API version does not exist.                                                                                                                               |
| RequestLimitExceeded                              | The number of requests exceeds the frequency limit.                                                                                                           |
| RequestLimitExceeded.GlobalRegionUinLimitExceeded | Uin exceeds the frequency limit.                                                                                                                              |
| RequestLimitExceeded.IPLimitExceeded              | The number of ip requests exceeds the                                                                                                                         |

|                                       |                                                                           |
|---------------------------------------|---------------------------------------------------------------------------|
|                                       | frequency limit.                                                          |
| RequestLimitExceeded.UinLimitExceeded | The number of uin requests exceeds the frequency limit.                   |
| RequestSizeLimitExceeded              | The request size exceeds the upper limit.                                 |
| ResourceInUse                         | Resource is in use.                                                       |
| ResourceInsufficient                  | Insufficient resource.                                                    |
| ResourceNotFound                      | The resource does not exist.                                              |
| ResourceUnavailable                   | Resource is unavailable.                                                  |
| ResponseSizeLimitExceeded             | The response size exceeds the upper limit.                                |
| ServiceUnavailable                    | Service is unavailable now.                                               |
| UnauthorizedOperation                 | Unauthorized operation.                                                   |
| UnknownParameter                      | Unknown parameter.                                                        |
| UnsupportedOperation                  | Unsupported operation.                                                    |
| UnsupportedProtocol                   | HTTP(S) request protocol error; only GET and POST requests are supported. |
| UnsupportedRegion                     | API does not support the requested region.                                |

## Service Error Codes

| Error Code                         | Description                                                         |
|------------------------------------|---------------------------------------------------------------------|
| AuthFailure                        | CAM signature/authentication error                                  |
| FailedOperation.CosError           | Failed to access COS.                                               |
| FailedOperation.CosPropertiesError | Errors occurred while acquiring uploaded configuration information. |
| FailedOperation.CreateOrderFailed  | Failed to create order.                                             |
| FailedOperation.DBError            | Database error.                                                     |
| FailedOperation.GcsError           | The operation failed or the network timed out.                      |
| FailedOperation.GetVpcFailed       | Failed to get VPC information.                                      |

|                                             |                                                         |
|---------------------------------------------|---------------------------------------------------------|
| FailedOperation.MigrationLockError          | Locking the backup import task failed.                  |
| FailedOperation.NotSupport                  | The operation is not supported.                         |
| FailedOperation.QueryOrderFailed            | Failed to query order.                                  |
| FailedOperation.QueryPriceFailed            | Billing error. Failed to query price.                   |
| FailedOperation.VPCErrors                   | Failed to operate the network or the session timed out. |
| InternalError.CamAuthFailed                 | CAM authentication request failed.                      |
| InternalError.CosError                      | COS API error.                                          |
| InternalError.CreateFlowFailed              | Failed to create flow.                                  |
| InternalError.DBConnectError                | Database connection error.                              |
| InternalError.DBError                       | Database error                                          |
| InternalError.GcsError                      | GCS API error.                                          |
| InternalError.StsError                      | Errors occurred while acquiring temporary keys.         |
| InternalError.SystemError                   | System error.                                           |
| InternalError.UnknownError                  | Unknown error.                                          |
| InternalError.VPCErrors                     | VPC error                                               |
| InvalidParameter.InputIllegal               | Input error.                                            |
| InvalidParameter.InterfaceNameNotFound      | The API does not exist.                                 |
| InvalidParameter.ParamsAssertFailed         | An error occurred while converting parameter assertion. |
| InvalidParameter.PayOrderFailed             | Failed to make order payment.                           |
| InvalidParameterValue.AccountExist          | Account already exists.                                 |
| InvalidParameterValue.AccountNameIllegal    | The account name is invalid.                            |
| InvalidParameterValue.AccountNameKeyWords   | The account name includes restricted contents.          |
| InvalidParameterValue.AccountRemarksIllegal | The account remarks are invalid.                        |

|                                               |                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------------|
| InvalidParameterValue.AdminAccountNotUnique   | You can only apply for one admin account.                                  |
| InvalidParameterValue.BackupNameIllegal       | The backup name contains invalid characters.                               |
| InvalidParameterValue.BadGoodsNum             | Invalid number of purchased instances.                                     |
| InvalidParameterValue.CharsetIllegal          | The database character set is incorrectly set.                             |
| InvalidParameterValue.CosPathError            | Wrong upload path.                                                         |
| InvalidParameterValue.CostTypeNotSupported    | Billing type error.                                                        |
| InvalidParameterValue.DBCharIllegal           | The database name contains invalid characters.                             |
| InvalidParameterValue.DBExist                 | The database already exists.                                               |
| InvalidParameterValue.DBNameKeyWords          | The database name cannot contain reserved words.                           |
| InvalidParameterValue.DBNameNotNull           | The database name is required.                                             |
| InvalidParameterValue.DBNameSame              | The new database name is the same as the old one.                          |
| InvalidParameterValue.DatabaseRemarksIllegal  | The database remarks are invalid.                                          |
| InvalidParameterValue.GrantsIllegal           | Invalid parameter. The value of <code>GRANT</code> is invalid.             |
| InvalidParameterValue.IllegalRegion           | Invalid region.                                                            |
| InvalidParameterValue.IllegalSpec             | Incorrect instance specification information.                              |
| InvalidParameterValue.IllegalZone             | Incorrect AZ ID.                                                           |
| InvalidParameterValue.InstanceExpandVolumeLow | The expansion capacity of the instance is lower than the current capacity. |
| InvalidParameterValue.InstanceNameIllegal     | The instance name contains invalid characters.                             |
| InvalidParameterValue.MigrationNameIllegal    | The migration name contains invalid characters.                            |
| InvalidParameterValue.ModifyTypeValueInvalid  | Only <code>enable</code> and <code>disable</code> are valid values.        |



|                                                      |                                                                  |
|------------------------------------------------------|------------------------------------------------------------------|
| InvalidParameterValue.OnCvmTypeNotSupported          | Basic edition instances are not supported.                       |
| InvalidParameterValue.ParameterTypeError             | Incorrect parameter type.                                        |
| InvalidParameterValue.PasswordsIllegal               | The account and password are invalid.                            |
| InvalidParameterValue.PrivilegesIllegal              | Incorrect database permission settings.                          |
| InvalidParameterValue.ReadOnlyGroupNameIllegal       | Read-only group name contains invalid characters.                |
| InvalidParameterValue.SecurityGroupIdIllegal         | Invalid security group ID.                                       |
| LimitExceeded.TooManyDB                              | The database limit is exceeded.                                  |
| ResourceInUse.IncrementalMigrationExist              | An incremental backup import task to be started already exists.  |
| ResourceNotFound.AccountNotExist                     | The account does not exist.                                      |
| ResourceNotFound.BackupNotFound                      | The backup does not exist.                                       |
| ResourceNotFound.DBNotExist                          | The database does not exist.                                     |
| ResourceNotFound.DBNotFound                          | The database does not exist.                                     |
| ResourceNotFound.FullBackupMigrationNotExist         | The full backup import task does not exist.                      |
| ResourceNotFound.IncreBackupMigrationNotExist        | The incremental backup import task does not exist.               |
| ResourceNotFound.InstanceNotFound                    | The instance does not exist.                                     |
| ResourceNotFound.ParamsNotFound                      | Parameter not found.                                             |
| ResourceNotFound.VpcNotExist                         | The VPC does not exist.                                          |
| ResourceUnavailable.AccountInvalidStatus             | Invalid account status.                                          |
| ResourceUnavailable.BackupMigrationRecoveryTypeError | The restoration type does not support incremental backup import. |
| ResourceUnavailable.CosStatusErr                     | A wrong status of offline restoration tasks.                     |
| ResourceUnavailable.DBInvalidStatus                  | Invalid database status.                                         |
| ResourceUnavailable.InstanceMigrateRegionIllegal     | Invalid instance migration region.                               |
| ResourceUnavailable.InstanceMigrateStatusInvalid     | Invalid instance migration status.                               |

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| ResourceUnavailable.InstanceStatusInvalid | Invalid instance status.               |
| ResourceUnavailable.NotSupportRoInstance  | Read-Only instances are not supported. |
| ResourceUnavailable.VpcNotExist           | VPC not found.                         |
| UnauthorizedOperation.PermissionDenied    | CAM authentication error.              |
| UnsupportedOperation.NotSupportRepeat     | Repeated operations are not supported. |
| UnsupportedOperation.UploadTypeError      | A wrong upload type.                   |