Data Lake Compute

API Documentation

Product Documentation

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Contents

API Documentation
- History
- Introduction
- API Category
- Making API Requests
  - Request Structure
  - Common Params
  - Signature v3
  - Signature
  - Responses
- Data Table APIs
  - CreateInternalTable
  - DescribeLakeFsDirSummary
  - DescribeLakeFsInfo
  - QueryResult
  - GenerateCreateMangedTableSql
- Task APIs
  - CreateSparkSessionBatchSQL
  - CancelSparkSessionBatchSQL
  - CancelTask
  - CreateResultDownload
  - CreateSparkAppTask
  - CreateTask
  - CreateTasks
  - DeleteSparkApp
  - DescribeEngineUsageInfo
  - DescribeResultDownload
  - DescribeSparkAppTasks
  - DescribeTaskResult
  - DescribeTasks
  - QueryTaskCostDetail
  - CreateSparkApp
  - DescribeSparkAppJob
  - DescribeSparkSessionBatchSqlLog
  - ModifySparkApp

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- DescribeSparkAppJobs
- ModifySparkAppBatch
- DescribeTaskStatistics
- DescribeQuery
- DescribeJobs
- DescribeJob

Metadata APIs

- AlterDMSDatabase
- CreateDMSDatabase
- DescribeDMSDatabase
- DescribeTablesName
- DropDMSDatabase
- DescribeForbiddenTablePro
- DescribeDLCCatalogAccess
- GrantDLCCatalogAccess
- RevokeDLCCatalogAccess
- DropDMSTable
- DropDLCTable
- DescribeDMSDatabaseList
- DescribeDLCTableList
- DescribeDLCTable
- CreateDLCTable
- CopyDLCTable

Service Configuration APIs

- CreateCHDFSBindingProduct
- DeleteCHDFSBindingProduct
- DescribeOtherCHDFSBindingList
- CreateStoreLocation
- DescribeStoreLocation
- ModifyDataEngineDescription
- RollbackDataEngineImage
- SwitchDataEngine
- SwitchDataEngineImage
- UpgradeDataEngineImage
- DeleteThirdPartyAccessUser
- DescribeDataEngineImageVersions
- DescribeSubUserAccessPolicy
- DescribeThirdPartyAccessUser

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- RegisterThirdPartyAccessUser
- RestartDataEngine
- UpdateUserDataEngineConfig
- UpdateDataEngineConfig

Permission Management APIs

- AddUsersToWorkGroup
- AttachUserPolicy
- AttachWorkGroupPolicy
- BindWorkGroupsToUser
- CreateUser
- CreateWorkGroup
- DeleteUser
- DeleteUsersFromWorkGroup
- DeleteWorkGroup
- DescribeUserInfo
- DescribeUserRoles
- DescribeUserType
- DescribeUsers
- DescribeWorkGroupInfo
- DescribeWorkGroups
- DetachUserPolicy
- DetachWorkGroupPolicy
- ModifyUser
- ModifyUserType
- ModifyWorkGroup
- UnbindWorkGroupsFromUser
- UpdateRowFilter
- CheckGrantedPermission

Database APIs

- ModifyAdvancedStoreLocation
- ModifyGovernEventRule
- DescribeAdvancedStoreLocation

Data Source Connection APIs

- CheckDataEngineImageCanBeRollback
- CheckDataEngineImageCanBeUpgrade
- DescribeDataEnginePythonSparkImages

Data Optimization APIs

- GetOptimizerPolicy

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Data Engine APIs
- CreateDataEngine
- DescribeDataEnginesScaleDetail
- DeleteDataEngine
- RenewDataEngine
- SuspendResumeDataEngine
- UpdateDataEngine
- DescribeUpdatableDataEngines
- DescribeDataEngine
- DescribeUserDataEngineConfig
- CheckDataEngineConfigPairsValidity

Data Types

Error Codes

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API Documentation History

Last updated：2024-08-21 19:10:19

Release 15

Release time: 2024-08-21 19:09:54

Release updates:

Improvement to existing documentation.

New APIs:

- CheckGrantedPermission
- CopyDLCTable
- CreateDLCTable
- DescribeDLCTable
- DescribeDLCTableList
- DescribeDMSDatabaseList
- DescribeJob
- DescribeJobs
- DescribeQuery
- DescribeTaskStatistics
- DropDLCTable

Modified APIs:

- QueryTaskCostDetail
  - **Deleted output parameters:** SearchAfter, Data

New data structures:

- CheckPermission
- DLCTable
- DMSColumn
- DMSColumnOrder
- DMSDatabaseInfo
- DMSPartition

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- DMSSds
- DMSSourceDatabaseInfo
- ExternalDataConfiguration
- JobResponseInfo
- PermissionResponseInfo
- ResourceBaseInfo
- StatisticInfo

Modified data structures:

- LakeFsInfo
  - New members:DefaultBucket, ShortName, Description, Status
- SmartOptimizerLifecyclePolicy
  - New members:ExpiredField, ExpiredFieldFormat
- SmartOptimizerWrittenPolicy
  - New members:WrittenEnable
- TColumn
  - New members:Position, IsPartition

Release 14

Release time: 2024-08-08 15:31:41

Release updates:

Improvement to existing documentation.

New APIs:

- DropDMSTable

Modified APIs:

- UpdateDataEngineConfig
  - New input parameters:UseLakeFs, CustomResultPath

Release 13

Release time: 2024-08-06 11:00:31

Release updates:

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Improvement to existing documentation.

New APIs:

- AlterDMSDatabase
- CreateDMSDatabase
- DescribeDMSDatabase
- DropDMSDatabase

New data structures:

- Asset

Release 12

Release time: 2024-07-31 17:11:55

Release updates:

Improvement to existing documentation.

New APIs:

- AddUsersToWorkGroup
- AttachUserPolicy
- AttachWorkGroupPolicy
- BindWorkGroupsToUser
- CheckDataEngineConfigPairsValidity
- CheckDataEngineImageCanBeRollback
- CheckDataEngineImageCanBeUpgrade
- CreateCHDFSBindingProduct
- CreateStoreLocation
- CreateUser
- CreateWorkGroup
- DeleteCHDFSBindingProduct
- DeleteDataEngine
- DeleteThirdPartyAccessUser
- DeleteUser
- DeleteUsersFromWorkGroup
- DeleteWorkGroup
- DescribeAdvancedStoreLocation

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- DescribeDLCCatalogAccess
- DescribeDataEngine
- DescribeDataEngineImageVersions
- DescribeDataEnginePythonSparkImages
- DescribeDataEnginesScaleDetail
- DescribeOtherCHDFSBindingList
- DescribeStoreLocation
- DescribeSubUserAccessPolicy
- DescribeTablesName
- DescribeThirdPartyAccessUser
- DescribeUpdatableDataEngines
- DescribeUserDataEngineConfig
- DescribeUserInfo
- DescribeUserType
- DescribeUsers
- DescribeWorkGroupInfo
- DescribeWorkGroups
- DetachUserPolicy
- DetachWorkGroupPolicy
- GetOptimizerPolicy
- GrantDLCCatalogAccess
- ModifyAdvancedStoreLocation
- ModifyDataEngineDescription
- ModifyUser
- ModifyUserType
- ModifyWorkGroup
- QueryResult
- QueryTaskCostDetail
- RegisterThirdPartyAccessUser
- RenewDataEngine
- RestartDataEngine
- RevokeDLCCatalogAccess
- RollbackDataEngineImage
- SwitchDataEngineImage
- UnbindWorkGroupsFromUser
- UpdateDataEngine
- UpdateDataEngineConfig
- UpdateUserDataEngineConfig

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- UpgradeDataEngineImage

Modified APIs:

- CancelSparkSessionBatchSQL
  - New input parameters:CustomKey
- CreateDataEngine
  - New input parameters:AutoAuthorization, EngineNetworkId, EngineGeneration
- CreateSparkSessionBatchSQL
  - New input parameters:CustomKey
  - New output parameters:Statements
- CreateTask
  - New input parameters:ResourceGroupName
- CreateTasks
  - New input parameters:ResourceGroupName
- DescribeLakeFsInfo
  - New output parameters:LakeFsInfos
- DescribeSparkSessionBatchSqlLog
  - New input parameters:CustomKey
- DescribeTaskResult
  - New input parameters:IsTransformDataType
- DescribeTasks
  - New input parameters:ResourceGroupName

New data structures:

- AccessInfo
- CHDFSProductVpcInfo
- DLCCatalogAccess
- DataEngineBasicInfo
- DataEngineConfigInstanceInfo
- DataEngineImageVersion
- DataEngineInfo
- DataEngineScaleInfo
- DataEngineScaleInfoDetail
- FavorInfo
- LakeFsInfo
- MountPointAssociates
- NetworkConnection

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- OpendThirdAccessUserInfo
- OtherCHDFSBinding
- Policys
- PythonSparkImage
- ResourceInfo
- SmartOptimizerIndexPolicy
- SmartOptimizerLifecyclePolicy
- SmartOptimizerPolicy
- SmartOptimizerWrittenPolicy
- SmartPolicy
- SmartPolicyBaseInfo
- StatementInformation
- UserDetailInfo
- UserIdSetOfWorkGroupId
- UserInfo
- UserMessage
- Users
- VpcCidrBlock
- VpcInfo
- WorkGroupDetailInfo
- WorkGroupIdSetOfUserId
- WorkGroupInfo
- WorkGroupMessage
- WorkGroups

Modified data structures:

- DataEngineConfigPair
  - New members:ConfigItem, ConfigValue
- TColumn
  - New members:Precision, Scale
- TableBaseInfo
  - New members:SmartPolicy
  - **Deprecate members:** GovernPolicy, DbGovernPolicyIsDisable
- TaskResultInfo
  - New members:QueryResultTime

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Release 11

Release time: 2024-07-08 15:25:49

Release updates:

Improvement to existing documentation.

Modified data structures:

- SparkJobInfo
  - New members:EngineTypeDetail

Release 10

Release time: 2024-07-08 15:19:32

Release updates:

Improvement to existing documentation.

Modified data structures:

- TaskResponseInfo
  - New members:ResultFormat, EngineTypeDetail, ResourceGroupName

Release 9

Release time: 2023-09-19 11:17:17

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeUserRoles

Modified APIs:

- CreateDataEngine
  - **Deprecate input parameters:** DefaultDataEngine
- CreateSparkApp
  - New input parameters:IsSessionStarted

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- CreateSparkSessionBatchSQL
  - New input parameters:IsInherit
- ModifySparkApp
  - New input parameters:IsSessionStarted

New data structures:

- CosPermission
- UserRole

Modified data structures:

- CommonMetrics
  - **Modified members:** CreateTaskTime, ProcessTime, QueueTime, ExecutionTime, IsResultCacheHit, MatchedMVBytes, MatchedMVs, AffectedBytes, AffectedRows, ProcessedBytes, ProcessedRows
- SparkJobInfo
  - New members:IsSessionStarted
  - **Modified members:** JobExecutorMaxNumbers, SparkImageVersion, SessionId, DataEngineClusterType, DataEngineImageVersion, IsInherit
- TaskResponseInfo
  - **Modified members:** DriverSize, ExecutorSize, ExecutorNums, ExecutorMaxNumbers, CommonMetrics, SparkMonitorMetrics, PrestoMonitorMetrics

Release 8

Release time: 2023-06-26 17:05:33

Release updates:

Improvement to existing documentation.

New APIs:

- CancelSparkSessionBatchSQL
- CreateSparkSessionBatchSQL
- DescribeSparkSessionBatchSqlLog
- ModifySparkAppBatch

Modified APIs:

- CreateDataEngine

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- New input parameters:SessionResourceTemplate
- CreateSparkApp
  - New input parameters:IsInherit
- GenerateCreateMangedTableSql
  - New input parameters:UpsertKeys
- ModifySparkApp
  - New input parameters:IsInherit

New data structures:

- CommonMetrics
- PrestoMonitorMetrics
- SessionResourceTemplate
- SparkMonitorMetrics
- SparkSessionBatchLog
- SparkSessionBatchLogOperate

Modified data structures:

- DataGovernPolicy
  - New members:RuleType, GovernEngine
- SparkJobInfo
  - New members:IsInherit
- TableBaseInfo
  - New members:DbGovernPolicyIsDisable
- TaskResponseInfo
  - New members:ImageVersion, DriverSize, ExecutorSize, ExecutorNums, ExecutorMaxNumbers, CommonMetrics, SparkMonitorMetrics, PrestoMonitorMetrics

Release 7

Release time: 2023-04-28 10:15:13

Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateSparkApp
  - New input parameters:SessionId

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- ModifySparkApp
  - New input parameters:SessionId

Modified data structures:

- SparkJobInfo
  - New members:SessionId, DataEngineClusterType, DataEngineImageVersion

Release 6

Release time: 2023-04-11 14:29:22

Release updates:

Improvement to existing documentation.

Modified data structures:

- SparkJobInfo
  - New members:SparkImageVersion

Release 5

Release time: 2023-04-10 17:12:30

Release updates:

Improvement to existing documentation.

New APIs:

- CreateDataEngine
- DescribeEngineUsageInfo
- DescribeForbiddenTablePro
- DescribeLakeFsDirSummary
- DescribeLakeFsInfo
- SwitchDataEngine
- UpdateRowFilter

New data structures:

- CrontabResumeSuspendStrategy

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- DataEngineConfigPair
- Policy
- TagInfo

Release 4

Release time: 2023-03-17 16:36:51

Release updates:

Improvement to existing documentation.

New APIs:

- CreateInternalTable
- CreateResultDownload
- DescribeResultDownload
- GenerateCreateMangedTableSql
- ModifyGovernEventRule

Modified APIs:

- CreateSparkApp
  - New input parameters:SparkImage, SparkImageVersion, AppExecutorMaxNumbers
  - New output parameters:SparkAppId
- ModifySparkApp
  - New input parameters:SparkImage, SparkImageVersion, AppExecutorMaxNumbers

New data structures:

- DataGovernPolicy
- Execution
- Property
- TColumn
- TPartition
- TableBaseInfo

Modified data structures:

- SparkJobInfo
  - New members:SparkImage, JobExecutorMaxNumbers

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Release 3

Release time: 2023-02-03 11:20:59

Release updates:

Improvement to existing documentation.

New APIs:

- SuspendResumeDataEngine

Release 2

Release time: 2022-09-21 16:03:46

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeTasks
  - New output parameters:TasksOverview

New data structures:

- TasksOverview

Modified data structures:

- TaskResponseInfo
  - New members:TotalTime, CmdArgs
- TaskResultInfo
  - New members:TotalTime

Release 1

Release time: 2022-08-02 11:16:01

Release updates:

Improvement to existing documentation.

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New APIs:

- CancelTask
- CreateSparkApp
- CreateSparkAppTask
- CreateTask
- CreateTasks
- DeleteSparkApp
- DescribeSparkAppJob
- DescribeSparkAppJobs
- DescribeSparkAppTasks
- DescribeTaskResult
- DescribeTasks
- ModifySparkApp

New data structures:

- Column
- Filter
- KVPair
- SQLTask
- SparkJobInfo
- StreamingStatistics
- Task
- TaskResponseInfo
- TaskResultInfo
- TasksInfo

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Introduction

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Data Lake Compute is a storage-free serverless interactive federated query service, where data from object storage services, databases, data warehouses, and NoSQL data sources can be analyzed with standard SQL statements without going through ETL. You can compute and analyze scattered multi-source heterogeneous data in the cloud with no need to perform traditional hierarchical data modeling. This accelerates the preparations and reduces the costs of data analysis.

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API Category

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Data Table APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateInternalTable	Creates a managed internal table	20
DescribeLakeFsDirSummary	Queries the summary of a specified directory in a managed storage	20
DescribeLakeFsInfo	Queries managed storage information	20
QueryResult	Queries the result of obtaining tasks	200
GenerateCreateMangedTableSql	Generates SQL statements for creating a managed table	20

Task APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateSparkSessionBatchSQL	Creates and executes a Spark SQL batch task	30
CancelSparkSessionBatchSQL	Cancels a Spark SQL batch task	20
CancelTask	Cancels a task	20
CreateResultDownload	Creates a query result download task	20
CreateSparkAppTask	Starts a Spark job	20
CreateTask	Creates and executes a Spark SQL task	50
CreateTasks	Creates and executes SQL tasks in batches	20

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DeleteSparkApp	Deletes a Spark job	20
DescribeEngineUsageInfo	Queries the resource usage of a data engine	20
DescribeResultDownload	Gets a query result download task	20
DescribeSparkAppTasks	Queries the list of running task instances of a Spark application	40
DescribeTaskResult	Queries task results (used for SparkSQL, PrestoSQL, and Spark job tasks)	40
DescribeTasks	Queries the list of tasks	1000
QueryTaskCostDetail	Queries task consumption details	20
CreateSparkApp	Creates a Spark job	20
DescribeSparkAppJob	Queries the information of a Spark job	20
DescribeSparkSessionBatchSqlLog	Queries Spark SQL batch task logs	50
ModifySparkApp	Updates a Spark job	20
DescribeSparkAppJobs	Queries the list of Spark jobs	20
ModifySparkAppBatch	Modifies Spark job parameters in batches	20
DescribeJob	Obtains jobs	20
DescribeJobs	Obtains the list of job information	20
DescribeQuery	Obtains query results	20
DescribeTaskStatistics	Obtains the task statistics data	20

Metadata APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AlterDMSDatabase	Updates databases in the DMS metadata module	20

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CreateDMSDatabase	Creates databases in the DMS metadata module	20
DescribeDMSDatabase	Obtains databases in the DMS metadata module	20
DescribeTablesName	Queries the data table name list	20
DropDMSDatabase	Deletes databases in the DMS metadata module	20
DescribeForbiddenTablePro	Gets the list of disabled table attributes (new)	20
DescribeDLCCatalogAccess	Queries the permission to visit DLCCatalog	20
GrantDLCCatalogAccess	Grants permissions for visiting DLC Catalog	20
RevokeDLCCatalogAccess	Revokes permissions for visiting DLC Catalog	20
DropDMSTable	Deletes tables in the DMS metadata module.	20
CopyDLCTable	Copies a table	20
CreateDLCTable	Creates a table	20
DescribeDLCTable	Obtains the table	20
DescribeDLCTableList	Obtains the list of tables	20
DescribeDMSDatabaseList	Obtains the list of databases	20
DropDLCTable	Deletes the table	20

Service Configuration APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateCHDFSBindingProduct	Creates metadata acceleration buckets and the binding relationship between products	20

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DeleteCHDFSBindingProduct	Deletes the binding relationship between metadata acceleration buckets and products	20
DescribeOtherCHDFSBindingList	Queries the list of metadata acceleration buckets bound to other products	20
CreateStoreLocation	Modifies the storage location of results	20
DescribeStoreLocation	Queries the storage location of results	20
ModifyDataEngineDescription	Modifies the engine's description	20
RollbackDataEngineImage	Rolls back the versions of the engine image	20
SwitchDataEngine	Switches between the primary and standby clusters	20
SwitchDataEngineImage	Switches the versions of the engine image	20
UpgradeDataEngineImage	Upgrades the engine image	20
DeleteThirdPartyAccessUser	Removes users visiting through the third-party platform	20
DescribeDataEngineImageVersions	Obtains the major version image list of exclusive clusters	20
DescribeSubUserAccessPolicy	Queries the sub-user's visiting policy	20
DescribeThirdPartyAccessUser	Queries the information of users visiting through the third-party platform	20
RegisterThirdPartyAccessUser	Registers to be a user able to visit the third-party platform	20
RestartDataEngine	Restarts engines	20
UpdateUserDataEngineConfig	Modifies the custom configuration of the user's engine	20
UpdateDataEngineConfig	Modifies engine configuration	20

Permission Management APIs

API Name	Feature	Frequency Limit (maximum

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		requests per second)
AddUsersToWorkGroup	Adds users to working groups	20
AttachUserPolicy	Binds the authentication policy to the user	20
AttachWorkGroupPolicy	Binds the authentication policy to the working group	20
BindWorkGroupsToUser	Binds working groups to users	20
CreateUser	Creates users	20
CreateWorkGroup	Creates working groups	20
DeleteUser	Deletes users	20
DeleteUsersFromWorkGroup	Deletes users from working groups	20
DeleteWorkGroup	Deletes working groups	20
DescribeUserInfo	Gets detailed user information	20
DescribeUserRoles	Enumerates user roles	20
DescribeUserType	Gets the types of users	20
DescribeUsers	Obtains the user list information	20
DescribeWorkGroupInfo	Gets detailed information about working groups	20
DescribeWorkGroups	Gets a list of working groups	20
DetachUserPolicy	Unbinds the authentication policy from the user	20
DetachWorkGroupPolicy	Unbinds the authentication policy from the working group	20
ModifyUser	Modifies user information	20
ModifyUserType	Modifies the types of users	20
ModifyWorkGroup	Modifies working group information	20
UnbindWorkGroupsFromUser	Unbinds a user group from a user	20
UpdateRowFilter	Updates row filters	20

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CheckGrantedPermission	Checks the permission status	20

Data Source Connection APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CheckDataEngineImageCanBeRollback	Checks whether the cluster can be rolled back	20
CheckDataEngineImageCanBeUpgrade	Checks whether the cluster image can be upgraded	20
DescribeDataEnginePythonSparkImages	Obtains the PYSPARK image list	20

Database APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ModifyAdvancedStoreLocation	Modifies advanced settings	20
ModifyGovernEventRule	Changes data governance event thresholds	20
DescribeAdvancedStoreLocation	Queries advanced settings	20

Data Engine APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateDataEngine	Creates a data engine	20
DescribeDataEnginesScaleDetail	Views engine specification details	20
DeleteDataEngine	Deletes the data engine	20

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RenewDataEngine	Renews monthly subscriptions to the data engine	20
SuspendResumeDataEngine	Suspends or starts a data engine	20
UpdateDataEngine	Upgrades data engine configuration	20
DescribeUpdatableDataEngines	Queries the list of engines able to upgrade their configuration	20
DescribeDataEngine	Obtains detailed data engine information	20
DescribeUserDataEngineConfig	Queries user-defined engine parameters	20
CheckDataEngineConfigPairsValidity	Checks the validity of the engine's user-defined parameters	20

Data Optimization APIs

API Name	Feature	Frequency Limit (maximum requests per second)
GetOptimizerPolicy	Obtains the policy	20

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Making API Requests
Request Structure

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1. Service Address

The API supports access from either a nearby region (at dlc.tencentcloudapi.com) or a specified region (at dlc.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 "dlc.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)	dlc.tencentcloudapi.com
South China (Guangzhou)	dlc.ap-guangzhou.tencentcloudapi.com
East China (Shanghai)	dlc.ap-shanghai.tencentcloudapi.com
North China (Beijing)	dlc.ap-beijing.tencentcloudapi.com
Southwest China (Chengdu)	dlc.ap-chengdu.tencentcloudapi.com
Southwest China (Chongqing)	dlc.ap-chongqing.tencentcloudapi.com
Hong Kong, Macao, Taiwan (Hong Kong, China)	dlc.ap-hongkong.tencentcloudapi.com
Southeast Asia (Singapore)	dlc.ap-singapore.tencentcloudapi.com
Southeast Asia (Bangkok)	dlc.ap-bangkok.tencentcloudapi.com

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South Asia (Mumbai)	dlc.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	dlc.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	dlc.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	dlc.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	dlc.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	dlc.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	dlc.eu-frankfurt.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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Common Params

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Common parameters are used for all APIs authenticating requestors. Common parameters must be included in all API requests, and they will not be described in individual API documents.

The exact contents of the common parameters will vary depending on the version of the signature method you use.

Common parameters for Signature Algorithm v3

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 description of common parameter `Action` in the input parameters in r documentation. For example, the API for querying the CVM instance list i `DescribeInstances` .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data y work with belongs. For values supported for an API, see the description c parameter `Region` in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relate 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 for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter `Version` in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date i UTC time, and this value must match the value of X-TC-Timestamp (a co

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			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencen refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication informatic type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a tempora can obtain the temporary key and token by calling a CAM API. No token i 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/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
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=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
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):

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```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
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 `Action` in the input parameters in related API documentation. For example, the API for querying the CVM instance list is `DescribeInstances`.
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 `Region` 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.

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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 `Timestamp` to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key 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 `Version` 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&Sign
atureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb45
9b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId
=AKIDEXAMPLE

Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

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```
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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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
Hong Kong/Macao/Taiwan (China) (Hong Kong (China))	ap-hongkong
Southeast Asia (Jakarta)	ap-jakarta
Southeast Asia (Singapore)	ap-singapore
Europe (Frankfurt)	eu-frankfurt
East US (Virginia)	na-ashburn

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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,

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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 `AKIDz8krbsJ5yKBZQpn74WFkmLPx3******` and `Gu5t9xGARNpq86cd98joQYCN3*******`, 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=AKIDz8krbsJ5yKBZQpn74WFkmLPx3******
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-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' +
```

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```
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` 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 sever will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is `content-type;host`
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter`

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	`[{"Values": ["unnamed"], "Name": "instance-name"}]}` in this exampl The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the pay of the HTTP request, performing hexadecimal encoding, and finally converting the enco string to lowercase letters. For GET requests, `RequestPayload` is always an empt string. The calculation result in this example is `99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4`

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 `TC3-HMAC-SHA256` .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter `X-TC-Timestamp` in request header, which is the UNIX timestamp of the current time in seconds, such as `1551113065` in this example.
CredentialScope	Scope of the credential in the format of `Date/service/tc3_request` , including date, requested service and termination string (tc3_request). **`Date` is a date in UT time, whose value should match the UTC date converted by the common parameter `X-TC-Timestamp` ;** `service` is the product name, which should m the domain name of the product called. The calculation result in this example is `2015/cvm/tc3_request` .

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HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequ The calculation result in this example is `2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad`

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
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

1. Calculate the derived signature key with the following pseudocode:

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*******"
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., `Gu5t9xGARNpq86cd98joQYCN3*******` .
Date	The Date field information in `Credential` , such as `2019-02-25` in this example.

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Service	Value in the Service field in `Credential`, such as `cvm` 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 `TC3-HMAC-SHA256`.
SecretId	The SecretId in the key pair, i.e., `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`.
CredentialScope	Credential scope (see above). The calculation result in this example is `2019-02-25/cvm/tc3_request`.
SignedHeaders	Header information for signature calculation (see above), such as `content-type;host` in this example.
Signature	Signature value. The calculation result in this example is `c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff`.

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc
3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301
bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/20
19-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437
e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

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```
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&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%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.

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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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
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 *************
```

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```
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + 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" + canoni
calQueryString + "\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, string
ToSign)).toLowerCase();
System.out.println(signature);

// ************* Step 4: Concatenate the Authorization *************
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "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)
```

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```
.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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"

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": [{"Name": "instance-name", "Values": ["unnamed"
]}]}

# ************* 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" +
```

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```
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")).hexd
igest()
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.sha2
56).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

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```go
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 := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
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,
```

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```
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

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```php
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$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 = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$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;
```

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```
// 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 = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*******'

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 = ''
```

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```
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 \
```

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```
+ ' -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, Mi
```

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```
dpointRounding.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" + cre
dentialScope + "\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_requ
est"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
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);
```

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```
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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";

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\": [\"\\u672a\\u5
47d\\u540d\"], \"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);
}
}
```

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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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"

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" + "hos
t:" + endpoint + "\n"

const canonicalRequest = httpRequestMethod + "\n"
```

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```
+ 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()
```

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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;
```

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```
}
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]);
}
```

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```
return output;
}

int main()
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";

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" + canoni
calQueryString + "\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" + credentialScop
e + "\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");
```

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```
string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "------------------------" << endl;

// ************* Step 4: Concatenate the Authorization *************
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "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).

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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: `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`
- SecretKey: `Gu5t9xGARNpq86cd98joQYCN3*******`

Note: This is just an example. For actual operations, please use your own SecretId and SecretKey.

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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	`AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`
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' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******',
'Timestamp' : 1465185768,
'Version': '2017-03-12',
}
```

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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=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&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=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*******&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

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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 = 'Gu5t9xGARNpq86cd98joQYCN3*******';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins
-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5
yKBZQpn74WFkmLPx3*******&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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 zmmjn35mikh6pM3V7sUEuX4wyYM=, the final signature string request parameter (Signature) is zmmjn35mikh6pM3V7sUEuX4wyYM%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

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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=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%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.

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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.getAlg
orithm());
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. TreeM
ap 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 UnsupportedEnc
odingException {
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()) {
```

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```
// The request string needs to be URL encoded. As the Key is all in English lette
rs, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHAR
SET)).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 enable
s automatic sorting
// A random number should be used when actually calling, for example: params.put
("Nonce", new Random().nextInt(java.lang.Integer.MAX_VALUE));
params.put("Nonce", 11886); // Common parameter
// The current time of the system should be used when actually calling, for examp
le: params.put("Timestamp", System.currentTimeMillis() / 1000);
params.put("Timestamp", 1465185768); // Common parameter
params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"); // Common paramet
er
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), "Gu5t9xGARNpq86cd98joQYCN3*
******", "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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
```

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```
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 := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
```

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```
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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$param["Nonce"] = 11886;//rand();
```

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```
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;

ksort($param);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param 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
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// 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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"

method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
'Action' => 'DescribeInstances',
'InstanceIds.0' => 'ins-09dx96dg',
'Limit' => 20,
```

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```
'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, sig
n))
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> requestPa
rams, string requestMethod, string requestHost, string requestPath)
```

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```
{
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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";

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>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
```

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```
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, '.');
```

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```
strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}

function main(){
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"

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()
```

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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 s
ignature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

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- 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.
MissingParameter	A parameter is missing.

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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.

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Data Table APIs
CreateInternalTable

Last updated：2024-08-08 15:32:44

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create a managed internal table. It has been disused.

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	Common Params. The value used for this API: CreateInternalTable.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TableBaseInfo	Yes	TableBaseInfo	The basic table information.
Columns.N	Yes	Array of TColumn	The table fields.
Partitions.N	No	Array of TPartition	The table partitions.

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Properties.N	No	Array of Property	The table properties.

3. Output Parameters

Parameter Name	Type	Description
Execution	String	The SQL statements for creating the managed internal table.
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 managed internal table

Input Example

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

{
"Columns": [
{
"Comment": "xx",
"Default": "xx",
"Type": "xx",
"Name": "xx",
"NotNull": true
}
],
"TableBaseInfo": {
"TableName": "xx",
"DatasourceConnectionName": "xx",
"DatabaseName": "xx",
"TableComment": "xx"
},
```

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```
"Partitions": [
{
"Comment": "xx",
"PartitionDot": 0,
"Name": "xx",
"PartitionFormat": "xx",
"Type": "xx",
"PartitionType": "xx",
"Transform": "xx",
"TransformArgs": []
}
]
}
```

Output Example

```
{
"Response": {
"Execution": "<create sql>",
"RequestId": "RequestId"
}
}
```

5. Developer Resources

SDK

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

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Command Line Interface

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

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DescribeLakeFsDirSummary

Last updated：2024-08-08 15:32:44

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the summary of a specified directory in a managed storage.

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	Common Params. The value used for this API: DescribeLakeFsDirSummary.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

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

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		RequestId). RequestId is required for locating a problem.

4. Example

Example1 Example 1

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.DBError	A database error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.
OperationDenied	Operation denied.
ResourceNotFound	The resource does not exist.

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DescribeLakeFsInfo

Last updated：2024-08-08 15:32:43

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query managed storage information.

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	Common Params. The value used for this API: DescribeLakeFsInfo.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
LakeFsInfos	Array of LakeFsInfo	Managed storage information Note: This field may return null, indicating that no valid values can be obtained.

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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 Example 1

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.
LimitExceeded	The quota limit is reached.
MissingParameter	Missing parameters.
OperationDenied	Operation denied.
ResourceNotFound	The resource does not exist.

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QueryResult

Last updated：2024-08-08 15:32:42

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the result of obtaining tasks.

A maximum of 200 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	Common Params. The value used for this API: QueryResult.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TaskId	Yes	String	Task ID
NextToken	No	String	lastReadFile is the file read last time. lastReadOffset is where the read stopped.

3. Output Parameters

Parameter	Type	Description

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Name		
TaskId	String	Task ID
ResultSet	String	Result data
ResultSchema	Array of Column	schema
NextToken	String	Pagination information 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 Getting a Task Result

Input Example

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

{
"NextToken": "xx",
"TaskId": "xx"
}
```

Output Example

```
{
"Response": {
"ResultSchema": [
{
"Comment": "xx",
"Scale": 0,
"Name": "xx",
"Nullable": "xx",
```

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```
"Precision": 0,
"Type": "xx"
}
],
"NextToken": "xx",
"ResultSet": "xx",
"RequestId": "xx",
"TaskId": "xx"
}
}
```

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.HttpClientDoRequestFailed	The HTTP client request failed.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.

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GenerateCreateMangedTableSql

Last updated：2024-08-21 19:10:10

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to generate SQL statements for creating a managed table.

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	Common Params. The value used for this API: GenerateCreateMangedTableSql.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TableBaseInfo	Yes	TableBaseInfo	The basic table information.
Columns.N	Yes	Array of TColumn	The table fields.
Partitions.N	No	Array of TPartition	The table partitions.
Properties.N	No	Array of Property	The table properties.

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UpsertKeys.N	No	Array of String	The Upsert key for a v2 table (in Upsert mode).

3. Output Parameters

Parameter Name	Type	Description
Execution	Execution	The SQL statements for creating the managed internal table.
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 Managed Storage Internal Table

This example shows you how to create a managed storage internal table.

Input Example

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

{
"TableBaseInfo": {
"DatabaseName": "abc",
"TableName": "abc",
"DatasourceConnectionName": "abc",
"TableComment": "abc",
"Type": "abc",
"TableFormat": "abc",
"UserAlias": "abc",
"UserSubUin": "abc",
"GovernPolicy": {
"RuleType": "abc",
"GovernEngine": "abc"
},
"DbGovernPolicyIsDisable": "abc",
```

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```
"SmartPolicy": {
"BaseInfo": {
"Uin": "abc",
"PolicyType": "abc",
"Catalog": "abc",
"Database": "abc",
"Table": "abc",
"AppId": "abc"
},
"Policy": {
"Inherit": "abc",
"Resources": [
{
"AttributionType": "abc",
"ResourceType": "abc",
"Name": "abc",
"Instance": "abc",
"Favor": [
{
"Priority": 0,
"Catalog": "abc",
"DataBase": "abc",
"Table": "abc"
}
],
"Status": 0
}
],
"Written": {
"WrittenEnable": "abc"
},
"Lifecycle": {
"LifecycleEnable": "abc",
"Expiration": 0,
"DropTable": true
},
"Index": {
"IndexEnable": "abc"
}
}
}
},
"Columns": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
```


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```
"Default": "abc",
"NotNull": true,
"Precision": 0,
"Scale": 0
}
],
"Partitions": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"PartitionType": "abc",
"PartitionFormat": "abc",
"PartitionDot": 0,
"Transform": "abc",
"TransformArgs": [
"abc"
]
}
],
"Properties": [
{
"Key": "abc",
"Value": "abc"
}
],
"UpsertKeys": [
"abc"
]
}
```

Output Example

```
{
"Response": {
"Execution": {
"SQL": "<create sql>"
},
"RequestId": "RequestId"
}
}
```

5. Developer Resources

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SDK

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidColumnNameLength	The field name is set incorrectly. The field name must be less than or equal to 128 bytes.
InvalidParameter.InvalidColumnNumber	The number of fields is set incorrectly. The number of fields must be less than or equal to 4096.
InvalidParameter.InvalidDecimalType	The DecimalType setting is invalid. Precision must be greater than or equal to Scale, and Precision must be less than 38.
InvalidParameter.InvalidTableNameLength	The table name is set incorrectly. The length of the table

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	name must be less than or equal to 128 bytes.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

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Task APIs
CreateSparkSessionBatchSQL

Last updated：2024-08-08 15:32:08

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to submit a Spark SQL batch task to the job engine.

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	Common Params. The value used for this API: CreateSparkSessionBatchSQL.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineName	Yes	String	The name of the engine for executing the Spark job.
ExecuteSQL	Yes	String	Run SQL. The base64 encoding is needed.
DriverSize	No	String	The driver size. Valid values: `small` (default, 1 CU), `medium` (2 CUs), `large` (4 CUs), and `xlarge` (8 CUs).
ExecutorSize	No	String	The executor size. Valid values: `small` (default, 1 CU),

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			`medium` (2 CUs), `large` (4 CUs), and `xlarge` (8 CUs).
ExecutorNumbers	No	Integer	The executor count, which defaults to 1.
ExecutorMaxNumbers	No	Integer	The maximum executor count, which defaults to 1. This parameter applies if the "Dynamic" mode is selected. If the "Dynamic" mode is not selected, the value of this parameter is the same as that of `ExecutorNumbers` .
TimeoutInSecond	No	Integer	The session timeout period in seconds. Default value: 3600
SessionId	No	String	The unique ID of a session. If this parameter is specified, the task will be run using the specified session.
SessionName	No	String	The name of the session to create.
Arguments.N	No	Array of KVPair	The session configurations. Valid values: `1.dlc.eni` for user-defined ENI gateway information; `2.dlc.role.arn` for user-defined roleArn configurations; and `3.dlc.sql.set.config` for user-defined cluster configurations.
IsInherit	No	Integer	Whether to inherit the resource configuration of clusters; 0: not inherit (by default); 1: inherit clusters.
CustomKey	No	String	User-defined primary key, and it should be unique.

3. Output Parameters

Parameter Name	Type	Description
BatchId	String	The unique identifier of a batch task.
Statements	Array of StatementInformation	Statement task list information 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.

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4. Example

Example1 Creating and Executing Spark SQL Batch Tasks

This API (CreateSparkSessionBatchSQL) is used to submit Spark SQL batch tasks to the Spark job engine.

Input Example

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

{
"DataEngineName": "data_engine_1",
"ExecuteSQL": "c2VsZWN0IDE=",
"DriverSize": "small",
"ExecutorSize": "small",
"ExecutorNumbers": 1,
"ExecutorMaxNumbers": 1,
"TimeoutInSecond": 2,
"SessionId": "",
"SessionName": "livy-session-123",
"Arguments": [
{
"Value": "eni",
"Key": "test_eni"
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1",
"BatchId": "d3018ad4-9a7e-4f64-a3f4-f38507c69742"
}
}
```

5. Developer Resources

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SDK

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- 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	The operation failed.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the en
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again c ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.BatchSQLCustomKeyNotUnique	The custom primary key of the specified interactive S not unique.
InvalidParameter.DataEngineOnlySupportSparkBatch	The current task only supports the Spark batch job p engine.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently SparkSQL, PrestoSQL, and SparkBatch are suppor
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it c

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	supports 1: public and 2: private.
InvalidParameter.ImageParameterSubmitMethodNotMatch	The specified cluster image ParameterSubmitMetho match. Currently, only User and BackGround are su
InvalidParameter.ImageParameterTypeNotMatch	The specified cluster image ParameterType does no Currently, it only supports 1: session; 2: common; 3:
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only 1: initializing, 2: online, 3: offline.
InvalidParameter.InvalidDriverSize	The current DriverSize specification only supports small/medium/large/xlarge/m.small/m.medium/m.larg
InvalidParameter.InvalidDynamicAllocationMaxExecutors	The specified dynamic number of executors must be maximum value.
InvalidParameter.InvalidExecutorSize	The current ExecutorSize specification only supports small/medium/large/xlarge/m.small/m.medium/m.larg
InvalidParameter.InvalidFileCompressionFormat	The specified file compression format is not compliar Currently, only .tar.gz/.tar/.tgz is supported.
InvalidParameter.InvalidFilePathFormat	The specified file path format is not compliant. Curre cosn:// or lakefs:// is supported.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.InvalidSessionKindType	Currently, types supported by Session only include spark/pyspark/sparkr/sql.
InvalidParameter.InvalidStatementKindType	Currently, Statement only supports the type of sql.
InvalidParameter.InvalidWhiteListKey	There is an error in getting an allowlist. Please try ag submit a ticket to contact us.
InvalidParameter.NumberOfSQLExceedsTheLimit	The number of SQL statements submitted is limited
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SQLBase64DecodeFail	Base64 parsing of the SQL script failed.
InvalidParameter.SQLParameterPreprocessingFailed	SQL parameter preprocessing failed.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotRunning	The specified engine is not running.

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ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.ImageSessionConfigNotFound	The specified cluster image Session configuration do exist.
ResourceNotFound.ImageSessionConfigNotUnique	The specified cluster image Session configuration al exists.
ResourceNotFound.ImageVersionNotFound	The specified cluster image version does not exist.
ResourceNotFound.ResultSavePathNotFound	Obtaining the result storage path failed. Please go to Console -> Data Exploration page for settings.
ResourceNotFound.RoleArnResourceNotFound	The specified RoleArn does not exist.
ResourceNotFound.SessionInsufficientResources	There are currently no resources to create a session again later or use an annual or monthly subscription
ResourceNotFound.SessionNotFound	The session does not exist.
ResourceNotFound.SessionStateDead	The session has expired.
ResourceNotFound.ShuffleDirNotFound	The Spark Shuffle storage path cannot be found. Ple the Console -> Data Exploration page -> Storage Co to set it.
ResourceNotFound.WarehouseDirNotFound	The Warehouse storage path cannot be found. Pleas Console->Data Exploration page->Storage Configur it.

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CancelSparkSessionBatchSQL

Last updated：2024-08-08 15:32:11

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to cancel a Spark SQL batch 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	Common Params. The value used for this API: CancelSparkSessionBatchSQL.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BatchId	Yes	String	The unique identifier of a batch task.
CustomKey	No	String	User-defined primary key. If it is specified, the value should be used for querying.

3. Output Parameters

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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 Canceling a Spark SQL batch task

This example shows you how to cancel a Spark SQL batch task.

Input Example

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

{
"BatchId": "d3018ad4-9a7e-4f64-a3f4-f38507c69742"
}
```

Output Example

```
{
"Response": {
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1"
}
}
```

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 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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound	The resource does not exist.
ResourceNotFound.BatchSQLTaskNotFound	The specified interactive SQL task does not exist.
ResourceNotFound.SessionNotFound	The session does not exist.
ResourceNotFound.SessionStateDead	The session has expired.

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CancelTask

Last updated：2024-08-08 15:32:10

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to cancel a 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	Common Params. The value used for this API: CancelTask.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TaskId	Yes	String	Globally unique 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

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		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 Canceling a task

This example shows you how to cancel a task.

Input Example

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

{
"TaskId": "4ad30ca9-8b0e-499f-b4e1-d6e43ba0e564"
}
```

Output Example

```
{
"Response": {
"RequestId": "48d09166-9ddc-4734-8cea-0cdf69c7d685"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
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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	The operation failed.
FailedOperation.AnotherRequestProcessing	Another request is being processed. Try again later.
FailedOperation.HttpClientDoRequestFailed	The HTTP client request failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.InvalidTaskId	The `taskid` is invalid.
InvalidParameter.ParameterBase64DecodeFailed	Base64 parsing of the specified parameter failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.TaskAlreadyFinished	The task has ended and cannot be canceled.
ResourceNotFound.TaskAlreadyFailed	The task has failed.
ResourceNotFound.TaskAlreadyFinished	The task has been completed.

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CreateResultDownload

Last updated：2024-08-08 15:32:10

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create a query result download 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	Common Params. The value used for this API: CreateResultDownload.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TaskId	Yes	String	The result query task ID.
Format	Yes	String	The result format.
Force	No	Boolean	Whether to re-generate a file to download. This parameter applies only when the last task is `timeout` or `error` .

3. Output Parameters

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Parameter Name	Type	Description
DownloadId	String	The download 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 Example 1

Input Example

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

{
"Force": true,
"TaskId": "xx",
"Format": "xx"
}
```

Output Example

```
{
"Response": {
"DownloadId": "xx",
"RequestId": "xx"
}
}
```

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	The operation failed.
FailedOperation.NoPermission	No permission.

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CreateSparkAppTask

Last updated：2024-08-08 15:32:09

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to start a Spark job.

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	Common Params. The value used for this API: CreateSparkAppTask.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
JobName	Yes	String	Spark job name
CmdArgs	No	String	The input parameters of the Spark job, separated by space. They are generally used for periodic calls.

3. Output Parameters

Parameter	Type	Description

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Name		
BatchId	String	Batch ID
TaskId	String	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 Spark job

This example shows you how to start a Spark job.

Input Example

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

{
"JobName": "spark-app-test",
"CmdArgs": "10 test 20"
}
```

Output Example

```
{
"Response": {
"RequestId": "2ae4707a-9f72-44aa-9fd4-65cb739d6301",
"BatchId": "batch-9vsx3lh0",
"TaskId": "4a7cad6bb86211ec9c616e6f30623d72"
}
}
```

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	The operation failed.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the engine.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageParameterSubmitMethodNotMatch	The specified cluster image ParameterSubmitMethod does not match. Currently, only User and BackGround are supported.
InvalidParameter.ImageParameterTypeNotMatch	The specified cluster image ParameterType does not match. Currently, it only supports 1: session;

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	2: common; 3: cluster.
InvalidParameter.ImageSessionParametersFormatNotJson	The specified cluster image Session parameter format is not JSON.
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only supports 1: initializing, 2: online, 3: offline.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match. Currently, it only supports: 1: parentVersion; 2: childVersion; 3: pySpark.
InvalidParameter.InvalidRoleArn	The CAM role arn is invalid.
InvalidParameter.InvalidSparkAppParam	The `SparkAppParam` is invalid.
InvalidParameter.InvalidSparkConfigFormat	The specified Spark job configuration format is abnormal. Please see spark.network.timeout=120s.
InvalidParameter.InvalidTcrSparkImageFormat	The specified TCR Spark image format does not match. The example for reference is my-image/ndf/python/latest.
InvalidParameter.InvalidWhiteListKey	There is an error in getting an allowlist. Please try again or submit a ticket to contact us.
InvalidParameter.NumberOfSQLExceedsTheLimit	The number of SQL statements submitted is limited to 1~50.
InvalidParameter.ParameterBase64DecodeFailed	Base64 parsing of the specified parameter failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SQLBase64DecodeFail	Base64 parsing of the SQL script failed.
InvalidParameter.SQLParameterPreprocessingFailed	SQL parameter preprocessing failed.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.
InvalidParameter.SparkJobNotUnique	The specified Spark task already exists.
InvalidParameter.SparkJobRoleArnNotFound	The specified Spark task RoleArn does not exist.
ResourceInsufficient.SparkJobInsufficientResources	The specified spark job resources are insufficient. Please adjust the driver/executor specifications.
ResourceNotFound.DataEngineConfigInstanceNotFound	The specified cluster configuration instance does

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	not exist.
ResourceNotFound.DataEngineConfigInstanceNotUnique	The specified cluster configuration instance already exists.
ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.ImageVersionNotFound	The specified cluster image version does not exist.
ResourceNotFound.ImageVersionNotUnique	The specified cluster image version already exists.
ResourceNotFound.ResourceUsageOutOfLimit	The specified task resources exceed the limit of the remaining resources of the cluster. Please try again after adjustment.
ResourceNotFound.ShuffleDirNotFound	The Spark Shuffle storage path cannot be found. Please go to the Console -> Data Exploration page -> Storage Configuration to set it.
ResourceNotFound.WarehouseDirNotFound	The Warehouse storage path cannot be found. Please go to the Console->Data Exploration page->Storage Configuration to set it.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation.UseComputingEngine	The sub-user does not have permission to use the compute engine.

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CreateTask

Last updated：2024-08-08 15:32:07

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create and execute a SQL task. (`CreateTasks` is recommended.)

A maximum of 50 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	Common Params. The value used for this API: CreateTask.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Task	Yes	Task	Computing task. This parameter contains the task type and related configuration information.
DatabaseName	No	String	Database name. If there is a database name in the SQL statement, the database in the SQL statement will be used first; otherwise, the database specified by this parameter will be used (note: when submitting the database creation SQL statement, passed in an empty string for this field).

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DatasourceConnectionName	No	String	Name of the default data source
DataEngineName	No	String	Data engine name. If this parameter is not specified, the task will be submitted to the default engine.
ResourceGroupName	No	String	Standard spark execution task resourceGroupName

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Task ID 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 and executing a Spark task

u200cThis example shows you how to create and execute a SQL task.

Input Example

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

{
"Task": {
"SQLTask": {
"SQL": "U0VMRUNUICogRlJPTSBgdGVzdGh5d2AuYHRlc3QxMDBtYCBMSU1JVCAxMDs=",
"Config": [
{
"Key": "",
"Value": ""
}
]
```

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```
},
"SparkSQLTask": {
"SQL": "",
"Config": [
{
"Key": "",
"Value": ""
}
]
}
},
"DatabaseName": "testdb"
}
```

Output Example

```
{
"Response": {
"RequestId": "13bfd2b2-b92e-4c49-9c7e-3662b5f32165",
"TaskId": "4ad30ca9-8b0e-499f-b4e1-d6e43ba0e564"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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.NoPermissionToUseTheDataEngine	The user does not have permission to specify the engine.
FailedOperation.SQLTaskParseFailed	Syntax parsing failed. Please verify and try again.
InternalError	An internal error occurred.
InternalError.DBError	A database error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.DataEngineOnlySupportSQL	The current task only supports SQL engine operation.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageParameterNotFound	The specified cluster image parameter does not exist.
InvalidParameter.ImageParameterSubmitMethodNotMatch	The specified cluster image ParameterSubmitMethod does not match. Currently, only User and BackGround are supported.
InvalidParameter.ImageParameterTypeNotMatch	The specified cluster image ParameterType does not match. Currently, it only supports 1: session; 2: common; 3: cluster.
InvalidParameter.InvalidConfigKeyNotFound	The specified task parameter Key value does not exist.
InvalidParameter.InvalidConfigValueLengthOutLimit	The length of the specified task parameter Value

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	exceeds the limit.
InvalidParameter.InvalidConfigValueRegexpNotMatch	The specified task parameter Value does not conform to the rules.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
InvalidParameter.InvalidFailureTolerance	The task fault tolerance type is wrong. Currently, only Proceed/Terminate is supported.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.InvalidSQLConfigSQL	Parameter verification failed. Please adjust the parameters or submit a ticket to contact us.
InvalidParameter.InvalidSQLNum	The number of executed SQL statements is incorrect. The number of SQL statements must be greater than or equal to 1 and less than or equal to 50.
InvalidParameter.InvalidStoreLocation	The storage location is incorrect.
InvalidParameter.InvalidTaskType	The TaskType is incorrect. The Spark engine task type is SparkSQLTask, and the Presto engine task type is SQLTask.
InvalidParameter.InvalidWhiteListKey	There is an error in getting an allowlist. Please try again or submit a ticket to contact us.
InvalidParameter.ParameterBase64DecodeFailed	Base64 parsing of the specified parameter failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SQLBase64DecodeFail	Base64 parsing of the SQL script failed.
InvalidParameter.SQLParameterPreprocessingFailed	SQL parameter preprocessing failed.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotRunning	The specified engine is not running.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.DefaultDataEngineNotFound	No default engine can be found.
ResourceNotFound.ResultOutputPathNotFound	The result path was not found.

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ResourceUnavailable.BalanceInsufficient	The account balance is insufficient to run the SQL task.
UnauthorizedOperation.UseComputingEngine	The sub-user does not have permission to use the compute engine.
UnsupportedOperation.UnsupportedFileType	The current file format is not supported. Currently, it only supports json/csv/avro/orc/parquet.

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CreateTasks

Last updated：2024-08-08 15:32:07

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create and execute SQL tasks in batches.

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	Common Params. The value used for this API: CreateTasks.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DatabaseName	Yes	String	Database name. If there is a database name in the SQL statement, the database in the SQL statement will be used first; otherwise, the database specified by this parameter will be used (note: when submitting the database creation SQL statement, passed in an empty string for this field).
Tasks	Yes	TasksInfo	SQL task information
DatasourceConnectionName	No	String	Data source name. Default value:

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			DataLakeCatalog.
DataEngineName	No	String	Compute engine name. If this parameter is not specified, the task will be submitted to the default engine.
ResourceGroupName	No	String	Resource group name of the spark cluster

3. Output Parameters

Parameter Name	Type	Description
BatchId	String	ID of the current batch of submitted tasks
TaskIdSet	Array of String	Collection of task IDs arranged in order of execution
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 and executing SQL tasks in batch

This example shows you how to create and execute SQL tasks in batches.

Input Example

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

{
"Tasks": {
"TaskType": "SQLTask",
"SQL": "U0VMRUNUICogRlJPTSBgdGVzdGh5d2AuYHRlc3QxMDBtYCBMSU1JVCAxMDs=",
"Config": [
{
```

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```
"Key": "",
"Value": ""
}
],
"FailureTolerance": "Proceed"
},
"DatabaseName": "testdb",
"DatasourceConnectionName": "DataLakeCatalog"
}
```

Output Example

```
{
"Response": {
"BatchId": "batch-45nyt3ee",
"RequestId": "b577857e-041f-46c7-b5cf-4b3d3f50bc51",
"TaskIdSet": [
"e9663251-3a14-423a-b003-13c77c3fae11"
]
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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.NoPermissionToUseTheDataEngine	The user does not have permission to specify the engine.
FailedOperation.SQLTaskParseFailed	Syntax parsing failed. Please verify and try again.
InternalError	An internal error occurred.
InternalError.DBError	A database error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.DataEngineOnlySupportSQL	The current task only supports SQL engine operation.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageParameterNotFound	The specified cluster image parameter does not exist.
InvalidParameter.ImageParameterSubmitMethodNotMatch	The specified cluster image ParameterSubmitMethod does not match. Currently, only User and BackGround are supported.
InvalidParameter.ImageParameterTypeNotMatch	The specified cluster image ParameterType does not match. Currently, it only supports 1: session; 2: common; 3: cluster.
InvalidParameter.InvalidConfigKeyNotFound	The specified task parameter Key value does not exist.
InvalidParameter.InvalidConfigValueLengthOutLimit	The length of the specified task parameter Value

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	exceeds the limit.
InvalidParameter.InvalidConfigValueRegexpNotMatch	The specified task parameter Value does not conform to the rules.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
InvalidParameter.InvalidFailureTolerance	The task fault tolerance type is wrong. Currently, only Proceed/Terminate is supported.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.InvalidSQLNum	The number of executed SQL statements is incorrect. The number of SQL statements must be greater than or equal to 1 and less than or equal to 50.
InvalidParameter.InvalidStoreLocation	The storage location is incorrect.
InvalidParameter.InvalidTaskType	The TaskType is incorrect. The Spark engine task type is SparkSQLTask, and the Presto engine task type is SQLTask.
InvalidParameter.InvalidWhiteListKey	There is an error in getting an allowlist. Please try again or submit a ticket to contact us.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SQLBase64DecodeFail	Base64 parsing of the SQL script failed.
InvalidParameter.SQLParameterPreprocessingFailed	SQL parameter preprocessing failed.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotRunning	The specified engine is not running.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.DefaultDataEngineNotFound	No default engine can be found.
ResourceNotFound.ResultOutputPathNotFound	The result path was not found.
ResourceUnavailable.BalanceInsufficient	The account balance is insufficient to run the SQL task.
UnauthorizedOperation.UseComputingEngine	The sub-user does not have permission to use the compute engine.

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UnsupportedOperation.UnsupportedFileType	The current file format is not supported. Currently, it only supports json/csv/avro/orc/parquet.

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DeleteSparkApp

Last updated：2024-08-08 15:32:06

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete a Spark job.

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	Common Params. The value used for this API: DeleteSparkApp.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
AppName	Yes	String	The Spark job name.

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

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		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 Spark job

u200cThis example shows you how to delete a Spark job.

Input Example

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

{
"AppName": "spark-app"
}
```

Output Example

```
{
"Response": {
"RequestId": "2ae4707a-9f72-44aa-9fd4-65cb739d6301"
}
}
```

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

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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
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.

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DescribeEngineUsageInfo

Last updated：2024-08-08 15:32:06

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the resource usage of a data engine based on its 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	Common Params. The value used for this API: DescribeEngineUsageInfo.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	The data engine ID.

3. Output Parameters

Parameter Name	Type	Description

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Total	Integer	The total cluster spec.
Used	Integer	The used cluster spec.
Available	Integer	The available cluster spec.
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 resource usage of a data engine

This example shows you how to query the resource usage of a data engine.

Input Example

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

{
"DataEngineId": "abc"
}
```

Output Example

```
{
"Response": {
"Total": 0,
"Used": 0,
"Available": 0,
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.

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DescribeResultDownload

Last updated：2024-08-08 15:32:05

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to get a query result download 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	Common Params. The value used for this API: DescribeResultDownload.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DownloadId	Yes	String	The query task ID.

3. Output Parameters

Parameter Name	Type	Description

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Path	String	The file save path. Note: This field may return null, indicating that no valid values can be obtained.
Status	String	The task status. Valid values: `init` , `queue` , `format` , `compress` , `success` , `timeout` , and `error` .
Reason	String	The task exception cause. Note: This field may return null, indicating that no valid values can be obtained.
SecretId	String	The temporary secret ID. Note: This field may return null, indicating that no valid values can be obtained.
SecretKey	String	The temporary secret key. Note: This field may return null, indicating that no valid values can be obtained.
Token	String	The temporary token. 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 Example 1

Input Example

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

{
"DownloadId": "xx"
}
```

Output Example

```
{
"Response": {
"Status": "xx",
"Token": "xx",
```

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```
"SecretKey": "xx",
"Reason": "xx",
"SecretId": "xx",
"RequestId": "xx",
"Path": "xx"
}
}
```

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	The operation failed.

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DescribeSparkAppTasks

Last updated：2024-08-08 15:32:03

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the list of running task instances of a Spark job.

A maximum of 40 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	Common Params. The value used for this API: DescribeSparkAppTasks.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
JobId	Yes	String	Spark job ID
Offset	No	Integer	Paginated query offset
Limit	No	Integer	Paginated query limit
TaskId	No	String	Execution instance ID
StartTime	No	String	The update start time in the format of yyyy-MM-dd HH:mm:ss.

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EndTime	No	String	The update end time in the format of yyyy-MM-dd HH:mm:ss.
Filters.N	No	Array of Filter	Filter by this parameter, which can be `task-state` .

3. Output Parameters

Parameter Name	Type	Description
Tasks	TaskResponseInfo	Task result (this field has been disused) Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of tasks
SparkAppTasks	Array of TaskResponseInfo	List of task results 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 Querying the Running Task List of a Spark Job

This example shows you how to query the list of running tasks of a Spark job.

Input Example

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

{
"JobId": "batch_133e005d-6486-4517-8ea7-b6b97b183a6b",
"Offset": 0,
```

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```
"Limit": 10
}
```

Output Example

```
{
"Response": {
"Tasks": {
"DatabaseName": "abc",
"DataAmount": 0,
"Id": "abc",
"UsedTime": 0,
"OutputPath": "abc",
"CreateTime": "abc",
"State": 0,
"SQLType": "abc",
"SQL": "abc",
"ResultExpired": true,
"RowAffectInfo": "abc",
"DataSet": "abc",
"Error": "abc",
"Percentage": 0,
"OutputMessage": "abc",
"TaskType": "abc",
"ProgressDetail": "abc",
"UpdateTime": "abc",
"DataEngineId": "abc",
"OperateUin": "abc",
"DataEngineName": "abc",
"InputType": "abc",
"InputConf": "abc",
"DataNumber": 0,
"CanDownload": true,
"UserAlias": "abc",
"SparkJobName": "abc",
"SparkJobId": "abc",
"SparkJobFile": "abc",
"UiUrl": "abc",
"TotalTime": 0,
"CmdArgs": "abc",
"ImageVersion": "abc",
"DriverSize": "abc",
"ExecutorSize": "abc",
"ExecutorNums": 1,
"ExecutorMaxNumbers": 1
},
```

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```
"TotalCount": 0,
"SparkAppTasks": [
{
"DatabaseName": "abc",
"DataAmount": 0,
"Id": "abc",
"UsedTime": 0,
"OutputPath": "abc",
"CreateTime": "abc",
"State": 0,
"SQLType": "abc",
"SQL": "abc",
"ResultExpired": true,
"RowAffectInfo": "abc",
"DataSet": "abc",
"Error": "abc",
"Percentage": 0,
"OutputMessage": "abc",
"TaskType": "abc",
"ProgressDetail": "abc",
"UpdateTime": "abc",
"DataEngineId": "abc",
"OperateUin": "abc",
"DataEngineName": "abc",
"InputType": "abc",
"InputConf": "abc",
"DataNumber": 0,
"CanDownload": true,
"UserAlias": "abc",
"SparkJobName": "abc",
"SparkJobId": "abc",
"SparkJobFile": "abc",
"UiUrl": "abc",
"TotalTime": 0,
"CmdArgs": "abc",
"ImageVersion": "abc",
"DriverSize": "abc",
"ExecutorSize": "abc",
"ExecutorNums": 1,
"ExecutorMaxNumbers": 1
}
],
"RequestId": "abc"
}
}
```


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5. Developer Resources

SDK

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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	The operation failed.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.FiltersValuesNumberOutOfLimit	The number of specified Filter.Values parameters exceeds the limit. Currently, it should be less than or equal to 50.
InvalidParameter.InvalidTimeFormat	The specified time format is not compliant. Currently, only YYYY-mm-dd HH:MM:SS is supported.
InvalidParameter.InvalidTimeParameter	The date parameters are abnormal. For example, the end time is earlier than the start time.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SparkJobFiltersKeyTypeNotMath	The specified Spark task Filter.Key does not match.

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	Currently, only spark-app-type/user-name/spark-job-name/spark-job-id/key-word is supported.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.
InvalidParameter.SparkJobNotUnique	The specified Spark task already exists.
ResourceUnavailable.WhiteListFunction	Currently, the allowlist function is available. Please contact us to activate it.

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DescribeTaskResult

Last updated：2024-08-08 15:32:02

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the result of a task.

A maximum of 40 requests can be initiated per second for this API.

This action accepts http content encodings: gzip

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	Common Params. The value used for this API: DescribeTaskResult.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TaskId	Yes	String	Unique task ID
NextToken	No	String	The pagination information returned by the last response. This parameter can be omitted for the first response, where the data will be returned from the beginning. The data with a volume set by the `MaxResults` field is returned each time.
MaxResults	No	Integer	Maximum number of returned rows. Value range: 0–1,000.

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			Default value: 1,000.
IsTransformDataType	No	Boolean	Whether to convert the data type

3. Output Parameters

Parameter Name	Type	Description
TaskInfo	TaskResultInfo	The queried task information. If the returned value is empty, the task with the entered task ID does not exist. The task result will be returned only if the task status is `2` (succeeded). 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 Querying Task Results

This example shows you how to query task results and return 1000 rows of data each time.

Input Example

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

{
"TaskId": "9e20f9c021cb11ec835f5254006c64af",
"NextToken": ""
}
```

Output Example

```
{
"Response": {
"RequestId": "9328049f-30bc-4feb-aecf-e3b4ff2d1b00",
```

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```
"TaskInfo": {
"TaskId": "9e20f9c021cb11ec835f5254006c64af",
"DatasourceConnectionName": "CosDataCatalog",
"DatabaseName": "auth_test",
"SQL": "SELECT * FROM `auth_test`.`hive_test` LIMIT 10",
"SQLType": "DQL",
"State": 2,
"DataAmount": 850363,
"UsedTime": 1761,
"TotalTime": 2000,
"OutputPath": "cosn://dlc-nj-1258469122/test/DLCQueryResults/2021/09/30/9e20f9c02
1cb11ec835f5254006c64af/",
"CreateTime": "1632991895728",
"OutputMessage": "success",
"RowAffectInfo": "59378 rows affected (1.761000 seconds)",
"ResultSchema": [
{
"Name": "a",
"Type": "integer",
"Comment": "",
"Precision": 0,
"Scale": 0,
"Nullable": "NULLABLE"
},
{
"Name": "b",
"Type": "varchar",
"Comment": "",
"Precision": 0,
"Scale": 0,
"Nullable": "NULLABLE"
}
],
"ResultSet": "[[\"3\",\"kk\"],[\"3\",\"kk\"],[\"9143\",\" \\\"28992\\\"\"],[\"190
48\",\" \\\"11266\\\"\"],[\"16711\",\" \\\"17422\\\"\"],[\"3816\",\" \\\"18501
\\\"\"],[\"16428\",\" \\\"13774\\\"\"],[\"30190\",\" \\\"5177\\\"\"],[\"24824
\",\" \\\"19479\\\"\"],[\"9709\",\" \\\"5532\\\"\"]]",
"NextToken": "",
"Percentage": 100,
"ProgressDetail": "[{\"jobId\":\"0\",\"stages\":[{\"stageId\":\"0\",\"schedule\":
1},{\"stageId\":\"1\",\"schedule\":1},{\"stageId\":\"2\",\"schedule\":1},{\"stage
Id\":\"3\",\"schedule\":1}],\"jobState\":\"\"}]",
"DisplayFormat": "table"
}
}
}
```


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5. Developer Resources

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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	The operation failed.
FailedOperation.HttpClientDoRequestFailed	The HTTP client request failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidMaxResults	Invalid maximum number of results.
InvalidParameter.InvalidSQLTaskMaxResults	The number of SQL task results obtained at a time must be greater than 0 and less than 1,000.
InvalidParameter.InvalidTaskId	The `taskid` is invalid.
InvalidParameter.MaxResultOnlySupportHundred	You are currently only allowed to view 100 results. If you need to make an adjustment, please contact us.

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DescribeTasks

Last updated：2024-08-08 15:32:02

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the list of tasks.

A maximum of 1000 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	Common Params. The value used for this API: DescribeTasks.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Limit	No	Integer	Number of returned results. Default value: 10. Maximum value: 100.
Offset	No	Integer	Offset. Default value: 0.
Filters.N	No	Array of Filter	Filter. The following filters are supported, and the `Name` input parameter must be one of them. Up to 50 `task-id` values can be filtered, while up to 5 other parameters can be filtered in total. task-id - String - (filter by task ID). `task-id` format: e386471f-139a-4e59-877f-50ece8135b99.

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			task-state - String - (filter exactly by task status). Valid values: `0` (initial), `1` (running), `2` (succeeded), `-1` (failed). task-sql-keyword - String - (filter fuzzily by SQL statement keyword, such as `DROP TABLE`). task-operator- string (filter by sub-UIN) task-kind - string (filter by task type)
SortBy	No	String	Sorting field. Valid values: `create-time` (default value), `update-time` .
Sorting	No	String	Sorting order. Valid values: `asc` (ascending order), `desc` (descending order). Default value: `asc` .
StartTime	No	String	Start time in the format of `yyyy-mm-dd HH:MM:SS` , which is the current time seven days ago by default.
EndTime	No	String	End time in the format of `yyyy-mm-dd HH:MM:SS` , which is the current time by default. The time span is (0, 30] days. Data in the last 45 days can be queried.
DataEngineName	No	String	The data engine name for filtering.
ResourceGroupName	No	String	Resource group name of the spark engine

3. Output Parameters

Parameter Name	Type	Description
TaskList	Array of TaskResponseInfo	List of task objects.
TotalCount	Integer	Total number of instances
TasksOverview	TasksOverview	The task overview. 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.

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4. Example

Example1 Querying the list of tasks

This example shows you how to query the list of tasks.

Input Example

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

{
"Limit": 0,
"Offset": 0,
"Filters": [
{
"Name": "abc",
"Values": [
"abc"
]
}
],
"SortBy": "abc",
"Sorting": "abc",
"StartTime": "abc",
"EndTime": "abc",
"DataEngineName": "abc"
}
```

Output Example

```
{
"Response": {
"TaskList": [
{
"DatabaseName": "abc",
"DataAmount": 0,
"Id": "abc",
"UsedTime": 0,
"OutputPath": "abc",
"CreateTime": "abc",
"State": 0,
```

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```
"SQLType": "abc",
"SQL": "abc",
"ResultExpired": true,
"RowAffectInfo": "abc",
"DataSet": "abc",
"Error": "abc",
"Percentage": 0,
"OutputMessage": "abc",
"TaskType": "abc",
"ProgressDetail": "abc",
"UpdateTime": "abc",
"DataEngineId": "abc",
"OperateUin": "abc",
"DataEngineName": "abc",
"InputType": "abc",
"InputConf": "abc",
"DataNumber": 0,
"CanDownload": true,
"UserAlias": "abc",
"SparkJobName": "abc",
"SparkJobId": "abc",
"SparkJobFile": "abc",
"UiUrl": "abc",
"TotalTime": 0,
"CmdArgs": "abc",
"ImageVersion": "abc",
"DriverSize": "abc",
"ExecutorSize": "abc",
"ExecutorNums": 1,
"ExecutorMaxNumbers": 1,
"CommonMetrics": {
"CreateTaskTime": 0,
"ProcessTime": 0,
"QueueTime": 0,
"ExecutionTime": 0,
"IsResultCacheHit": true,
"MatchedMVBytes": 0,
"MatchedMVs": "abc",
"AffectedBytes": "abc",
"AffectedRows": 0,
"ProcessedBytes": 0,
"ProcessedRows": 0
},
"SparkMonitorMetrics": {
"ShuffleWriteBytesCos": 0,
"ShuffleWriteBytesTotal": 0
},
```


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```
"PrestoMonitorMetrics": {
"LocalCacheHitRate": 0,
"FragmentCacheHitRate": 0
}
}
],
"TotalCount": 1,
"TasksOverview": {
"TaskQueuedCount": 0,
"TaskInitCount": 0,
"TaskRunningCount": 0,
"TotalTaskCount": 0
},
"RequestId": "abc"
}
}
```


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
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Command Line Interface

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6. Error Code

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

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Error Code	Description
InternalError	An internal error occurred.
InternalError.DBError	A database error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.FiltersValuesNumberOutOfLimit	The number of specified Filter.Values parameters exceeds the limit. Currently, it should be less than or equal to 50.
InvalidParameter.InvalidFilterLength	The number of filter conditions is invalid. When filter conditions are specified, the number of filter conditions should be greater than or equal to 1 and less than or equal to 5.
InvalidParameter.InvalidTimeFormat	The specified time format is not compliant. Currently, only YYYY-mm-dd HH:MM:SS is supported.
InvalidParameter.ParameterBase64DecodeFailed	Base64 parsing of the specified parameter failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SQLTaskFiltersKeyTypeNotMath	The specified Filter.Key does not match. Currently, only task-id/task-sql-keyword/task-kind/task-operator/batch-id/session-id/task-state is supported.
InvalidParameter.SQLTaskNotFound	The specified SQL task does not exist.
InvalidParameter.SQLTaskSortByTypeNotMatch	The SortBy type specified in the SQL task does not match. Currently, only create-time/data-amount/used-time/resource-usage is supported.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.
InvalidParameter.TaskStateTypeNotMath	The specified task status does not match. Currently, it only supports 0: initializing, 1: running, 2: successful, 3: writing data, 4: queuing, -1: failed, and -3: deleted.
InvalidParameterValue	The parameter value is incorrect.

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QueryTaskCostDetail

Last updated：2024-08-21 19:10:01

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query task consumption 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	Common Params. The value used for this API: QueryTaskCostDetail.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
Filters.N	No	Array of Filter	Filter criteria. The following filter types are supported. The parameter Name should be one of them. The maximum number of values that can be filtered by task-id is 50. The values that can be filtered by other parameter filters should not be more than 5. task-id - String - (accurate filtering of task IDs). The example of the value of task-id is e386471f-139a-4e59-877f-50ece8135b99. task-state - String - (filtering task status); valid values: 0 (initializing), 1 (running), 2 (successful), and -1 (failed). task-sql-keyword - String - (fuzzy filtering of the keywords of SQL

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			statements); the example of the value is DROP TABLE. task-operator- string (filtering sub-UIN)
StartTime	No	String	Start time, and the format is yyyy-mm-dd HH:MM:SS. It is the current moment 45 days ago by default.
EndTime	No	String	End time, and the format is yyyy-mm-dd HH:MM:SS. The time span is longer than 0 day but shorter than or equal to 30 days. Data within the recent 45 days can be queried. It is the current moment by default.
DataEngineName	No	String	Data engine name, used for selecting
SearchAfter	No	String	Identifier on the next page
PageSize	No	Integer	Size of each 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 Querying Task Consumption Details

Input Example

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

{}
```

Output Example

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```
{
"Response": {
"RequestId": "abc"
}
}
```

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	An internal error occurred.
InternalError.DBError	A database error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.

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InvalidParameter.FiltersValuesNumberOutOfLimit	The number of specified Filter.Values parameters exceeds the limit. Currently, it should be less than or equal to 50.
InvalidParameter.InvalidFilterLength	The number of filter conditions is invalid. When filter conditions are specified, the number of filter conditions should be greater than or equal to 1 and less than or equal to 5.
InvalidParameter.InvalidTimeFormat	The specified time format is not compliant. Currently, only YYYY-mm-dd HH:MM:SS is supported.
InvalidParameter.ParameterBase64DecodeFailed	Base64 parsing of the specified parameter failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SQLTaskFiltersKeyTypeNotMath	The specified Filter.Key does not match. Currently, only task-id/task-sql-keyword/task-kind/task-operator/batch-id/session-id/task-state is supported.
InvalidParameter.SQLTaskNotFound	The specified SQL task does not exist.
InvalidParameter.SQLTaskSortByTypeNotMatch	The SortBy type specified in the SQL task does not match. Currently, only create-time/data-amount/used-time/resource-usage is supported.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.
InvalidParameter.TaskStateTypeNotMath	The specified task status does not match. Currently, it only supports 0: initializing, 1: running, 2: successful, 3: writing data, 4: queuing, -1: failed, and -3: deleted.
InvalidParameterValue	The parameter value is incorrect.

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CreateSparkApp

Last updated：2024-08-08 15:32:09

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create a Spark job.

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	Common Params. The value used for this API: CreateSparkApp.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
AppName	Yes	String	The Spark job name.
AppType	Yes	Integer	The Spark job type. Valid values: `1` for Spark JAR job and `2` for Spark streaming job.
DataEngine	Yes	String	The data engine executing the Spark job.
AppFile	Yes	String	The path of the Spark job package.
RoleArn	Yes	Integer	Data visiting policy achieved through CAM Role arn; the

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			console can obtain it through Data Job -> Job Configuration; SDK can obtain corresponding values through the DescribeUserRoles API.
AppDriverSize	Yes	String	The driver size. Valid values: `small` (default, 1 CU), `medium` (2 CUs), `large` (4 CUs), and `xlarge` (8 CUs).
AppExecutorSize	Yes	String	The executor size. Valid values: `small` (default, 1 CU), `medium` (2 CUs), `large` (4 CUs), and `xlarge` (8 CUs).
AppExecutorNums	Yes	Integer	Number of Spark job executors
Eni	No	String	This field has been disused. Use the `Datasource` field instead.
IsLocal	No	String	The source of the Spark job package. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
MainClass	No	String	The main class of the Spark job.
AppConf	No	String	Spark configurations separated by line break
IsLocalJars	No	String	The source of the dependency JAR packages of the Spark job. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppJars	No	String	The dependency JAR packages of the Spark JAR job (JAR packages), separated by comma.
IsLocalFiles	No	String	The source of the dependency files of the Spark job. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppFiles	No	String	The dependency files of the Spark job (files other than JAR and ZIP packages) separated by comma.
CmdArgs	No	String	The input parameters of the Spark job, separated by comma.
MaxRetries	No	Integer	The maximum number of retries, valid for Spark streaming tasks only.

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DataSource	No	String	The data source name.
IsLocalPythonFiles	No	String	The source of the PySpark dependencies. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppPythonFiles	No	String	The PySpark dependencies (Python files), separated by comma, with .py, .zip, and .egg formats supported.
IsLocalArchives	No	String	The source of the dependency archives of the Spark job. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppArchives	No	String	The dependency archives of the Spark job, separated by comma, with tar.gz, .tgz, and .tar formats supported.
SparkImage	No	String	The Spark image version.
SparkImageVersion	No	String	The Spark image version name.
AppExecutorMaxNumbers	No	Integer	The specified executor count (max), which defaults to 1. This parameter applies if the "Dynamic" mode is selected. If the "Dynamic" mode is not selected, the executor count is equal to `AppExecutorNums` .
SessionId	No	String	The ID of the associated Data Lake Compute query script.
IsInherit	No	Integer	Whether to inherit the task resource configuration from the cluster template. Valid values: `0` (default): No; `1` : Yes.
IsSessionStarted	No	Boolean	Whether to run the task with the session SQLs. Valid values: `false` for no and `true` for yes.

3. Output Parameters

Parameter Name	Type	Description
SparkAppId	String	The unique ID of the application. Note: This field may return null, indicating that no valid values can be obtained.

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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 Spark job

This example shows you how to create a Spark job.

Input Example

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

{
"AppName": "spark-test",
"AppType": 1,
"DataEngine": "spark-engine",
"Eni": "kafka-eni",
"IsLocal": "cos",
"AppFile": "test.jar",
"RoleArn": 12,
"MainClass": "com.test.WordCount",
"AppConf": "spark-default.properties",
"IsLocalJars": "cos",
"AppJars": "com.test2.jar",
"IsLocalFiles": "cos",
"AppFiles": "spark-default.properties",
"AppDriverSize": "small",
"AppExecutorSize": "small",
"AppExecutorNums": 1,
"AppExecutorMaxNumbers": 1
}
```

Output Example

```
{
"Response": {
"SparkAppId": "2aedsa7a-9f72-44aa-9fd4-65cb739d6301",
"RequestId": "2ae4707a-9f72-44aa-9fd4-65cb739d6301"
```

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```
}
}
```

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	The operation failed.
InternalError.InternalSystemException	The business system is abnormal. Please try again c ticket to contact us.
InvalidParameter.InvalidAppFileFormat	The specified Spark task package file format does n Currently, only .jar or .py is supported.
InvalidParameter.InvalidDriverSize	The current DriverSize specification only supports small/medium/large/xlarge/m.small/m.medium/m.larg
InvalidParameter.InvalidExecutorSize	The current ExecutorSize specification only supports small/medium/large/xlarge/m.small/m.medium/m.larg

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InvalidParameter.InvalidFilePathFormat	The specified file path format is not compliant. Curre cosn:// or lakefs:// is supported.
InvalidParameter.InvalidRoleArn	The CAM role arn is invalid.
InvalidParameter.SparkJobNotUnique	The specified Spark task already exists.
InvalidParameter.SparkJobOnlySupportSparkBatchEngine	Spark tasks can only be run using the Spark job eng
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.SessionInsufficientResources	There are currently no resources to create a session again later or use an annual or monthly subscription

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DescribeSparkAppJob

Last updated：2024-08-08 15:32:04

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

u200cThis API is used to query the information of a Spark job.

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	Common Params. The value used for this API: DescribeSparkAppJob.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
JobId	No	String	The Spark job ID. If it co-exists with `JobName`, `JobName` is invalid. At least `JobId` or `JobName` must be used.
JobName	No	String	Spark job name

3. Output Parameters

Parameter	Type	Description

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Name		
Job	SparkJobInfo	Spark job details Note: This field may return null, indicating that no valid values can be obtained.
IsExists	Boolean	Whether the queried Spark job exists
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 Spark Job Information

This example shows you how to query the information of a Spark job.

Input Example

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

{
"JobId": "batch_133e005d-6486-4517-8ea7-b6b97b183a6b",
"JobName": "spark_app"
}
```

Output Example

```
{
"Response": {
"Job": {
"JobId": "batch_e6c5ae75-fb02-4831-a5b8-88999d09003c",
"JobName": "abc",
"JobType": 1,
"DataEngine": "testjar3",
"Eni": "testeni2",
"IsLocal": "cos",
"JobFile": "cosn://danierwei-test-1305424723/sparkjar/spark-ckafka-1.0-SNAPSHOT.j
ar",
"RoleArn": 3,
```

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```
"MainClass": "org.apache.spark.examples.SparkPi",
"CmdArgs": "testArgs",
"JobConf": "",
"IsLocalJars": "abc",
"JobJars": "lakefs://4000002928ef2638d7ab6aabb088bd51b7db914729a5c43b13a998ffa975
0511f511d0ab@dlcda57-100018379117-1636704841-100017307912-1304028854/1305424723/.
system/sparkAppJar/20220513/dd3c6ad3-a746-40d8-806c-fa8b15b5e9f9/spark-examples_
2.12-3.1.2.jar",
"IsLocalFiles": "lakefs",
"JobFiles": "",
"JobDriverSize": "small",
"JobExecutorSize": "small",
"JobExecutorNums": 1,
"JobMaxAttempts": 1,
"JobCreator": "admin",
"JobCreateTime": 1652769991248,
"JobUpdateTime": 1652769991248,
"CurrentTaskId": "2aedsa7a-9ds2-44ds-9fdd-65cbds9d6301",
"JobStatus": 1,
"StreamingStat": {
"StartTime": "2022-01-01 12:12:12",
"Receivers": 0,
"NumActiveReceivers": 0,
"NumInactiveReceivers": 0,
"NumActiveBatches": 0,
"NumRetainedCompletedBatches": 0,
"NumTotalCompletedBatches": 0,
"AverageInputRate": 0,
"AverageSchedulingDelay": 0,
"AverageProcessingTime": 0,
"AverageTotalDelay": 0
},
"DataSource": "DataLakeCatalog",
"IsLocalPythonFiles": "cos",
"AppPythonFiles": "",
"IsLocalArchives": "cos",
"JobArchives": "",
"SparkImage": "Spark 3.2",
"JobPythonFiles": "cos",
"TaskNum": 1,
"DataEngineStatus": 0,
"JobExecutorMaxNumbers": 1,
"SessionId": "xxssd-dsakjj-dkslk-doeks"
},
"IsExists": true,
"RequestId": "2ae4707a-9f72-44aa-9fd4-65cb739d6301"
```


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```
}
}
```

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	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidSparkAppParam	The `SparkAppParam` is invalid.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.

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InvalidParameter.SparkJobNotUnique	The specified Spark task already exists.

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DescribeSparkSessionBatchSqlLog

Last updated：2024-08-08 15:32:03

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query Spark SQL batch task logs.

A maximum of 50 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	Common Params. The value used for this API: DescribeSparkSessionBatchSqlLog.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BatchId	Yes	String	The unique ID of a Spark SQL job.
CustomKey	No	String	User-defined primary key. If it is specified, the query should be based on the value.

3. Output Parameters

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Parameter Name	Type	Description
State	Integer	Status: 0: running; 1: successful; 2: failed; 3: cancellation; 4: timeout
LogSet	Array of SparkSessionBatchLog	The log information list. 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 Querying Spark SQL Batch Task Logs

This example shows you how to query Spark SQL batch task logs.

Input Example

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

{
"BatchId": "d3018ad4-9a7e-4f64-a3f4-f38507c69742"
}
```

Output Example

```
{
"Response": {
"State": 0,
"LogSet": [
{
"Step": "BEG",
"Time": "2023-03-20 12:12:12",
"Message": "Cluster name",
"Operate": [
{
```

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```
"Text": "dateEngine-1",
"Operate": "COPY",
"Supplement": [
{
"Key": "TASKID",
"Value": "d0ds1sad4-9d7e-4f64-a3f4-f385dcs6742"
}
]
}
]
}
],
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1"
}
}
```


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

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FailedOperation	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound	The resource does not exist.
ResourceNotFound.BatchSQLTaskNotFound	The specified interactive SQL task does not exist.
ResourceNotFound.BatchSQLTaskNotUnique	The specified interactive SQL task is not unique.

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ModifySparkApp

Last updated：2024-08-08 15:32:01

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to update a Spark job.

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	Common Params. The value used for this API: ModifySparkApp.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
AppName	Yes	String	The Spark job name.
AppType	Yes	Integer	The Spark job type. Valid values: `1` for Spark JAR job and `2` for Spark streaming job.
DataEngine	Yes	String	The data engine executing the Spark job.
AppFile	Yes	String	The path of the Spark job package.
RoleArn	Yes	Integer	The data access policy (CAM role arn).

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AppDriverSize	Yes	String	The driver size. Valid values: `small` (default, 1 CU), `medium` (2 CUs), `large` (4 CUs), and `xlarge` (8 CUs).
AppExecutorSize	Yes	String	The executor size. Valid values: `small` (default, 1 CU), `medium` (2 CUs), `large` (4 CUs), and `xlarge` (8 CUs).
AppExecutorNums	Yes	Integer	Number of Spark job executors
SparkAppId	Yes	String	The Spark job ID.
Eni	No	String	This field has been disused. Use the `Datasource` field instead.
IsLocal	No	String	The source of the Spark job package. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
MainClass	No	String	The main class of the Spark job.
AppConf	No	String	Spark configurations separated by line break
IsLocalJars	No	String	The source of the dependency JAR packages of the Spark job. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppJars	No	String	The dependency JAR packages of the Spark JAR job (JAR packages), separated by comma.
IsLocalFiles	No	String	The source of the dependency files of the Spark job. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppFiles	No	String	The dependency files of the Spark job (files other than JAR and ZIP packages), separated by comma.
IsLocalPythonFiles	No	String	The source of the PySpark dependencies. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppPythonFiles	No	String	The PySpark dependencies (Python files), separated by comma, with .py, .zip, and .egg formats supported.

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CmdArgs	No	String	The input parameters of the Spark job, separated by comma.
MaxRetries	No	Integer	The maximum number of retries, valid for Spark streaming tasks only.
DataSource	No	String	Data source name
IsLocalArchives	No	String	The source of the dependency archives of the Spark job. Valid values: `cos` for COS and `lakefs` for the local system (for use in the console, but this method does not support direct API calls).
AppArchives	No	String	The dependency archives of the Spark job, separated by comma, with tar.gz, .tgz, and .tar formats supported.
SparkImage	No	String	The Spark image version.
SparkImageVersion	No	String	The Spark image version name.
AppExecutorMaxNumbers	No	Integer	The specified executor count (max), which defaults to 1. This parameter applies if the "Dynamic" mode is selected. If the "Dynamic" mode is not selected, the executor count is equal to `AppExecutorNums` .
SessionId	No	String	The associated Data Lake Compute query script.
IsInherit	No	Integer	Whether to inherit the task resource configuration from the cluster configuration template. Valid values: `0` (default): No; `1` : Yes.
IsSessionStarted	No	Boolean	Whether to run the task with the session SQLs. Valid values: `false` for no and `true` for yes.

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.

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4. Example

Example1 Updating a Spark job

This example shows you how to update a Spark job.

Input Example

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

{
"SparkAppId": "batch_sadfafd",
"AppName": "spark-test",
"AppType": 1,
"DataEngine": "spark-engine",
"Eni": "kafka-eni",
"IsLocal": "cos",
"AppFile": "test.jar",
"RoleArn": 12,
"MainClass": "com.test.WordCount",
"AppConf": "spark-default.properties",
"IsLocalJars": "cos",
"AppJars": "com.test2.jar",
"IsLocalFiles": "cos",
"AppFiles": "spark-default.properties",
"AppDriverSize": "small",
"AppExecutorSize": "small",
"AppExecutorNums": 1,
"AppExecutorMaxNumbers": 1
}
```

Output Example

```
{
"Response": {
"RequestId": "2ae4707a-9f72-44aa-9fd4-65cb739d6301"
}
}
```

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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	The operation failed.
InternalError.InternalSystemException	The business system is abnormal. Please try again c ticket to contact us.
InvalidParameter.InvalidAppFileFormat	The specified Spark task package file format does n Currently, only .jar or .py is supported.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
InvalidParameter.InvalidDriverSize	The current DriverSize specification only supports small/medium/large/xlarge/m.small/m.medium/m.larg
InvalidParameter.InvalidExecutorSize	The current ExecutorSize specification only supports small/medium/large/xlarge/m.small/m.medium/m.larg
InvalidParameter.InvalidFileCompressionFormat	The specified file compression format is not compliar Currently, only .tar.gz/.tar/.tgz is supported.

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InvalidParameter.InvalidFilePathFormat	The specified file path format is not compliant. Curre cosn:// or lakefs:// is supported.
InvalidParameter.SQLBase64DecodeFail	Base64 parsing of the SQL script failed.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.
InvalidParameter.SparkJobOnlySupportSparkBatchEngine	Spark tasks can only be run using the Spark job eng
ResourceInsufficient.SparkJobInsufficientResources	The specified spark job resources are insufficient. Pl the driver/executor specifications.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.

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DescribeSparkAppJobs

Last updated：2024-08-08 15:32:04

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the list of Spark jobs.

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	Common Params. The value used for this API: DescribeSparkAppJobs.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SortBy	No	String	The returned results are sorted by this field.
Sorting	No	String	Descending or ascending order, such as `desc` .
Filters.N	No	Array of Filter	The filters. The following types are supported, and `Name` of the parameter passed in must be one of them: `spark-job-name` (job name), `spark-job-id` (job ID), `spark-app-type` (job type: `1` for batch, `2` for streaming, and `4` for SQL), `user-name` (creator), and `key-word` (job name or ID keywords for fuzzy search).
StartTime	No	String	The update start time in the format of yyyy-mm-dd HH:MM:SS.

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EndTime	No	String	The update end time in the format of yyyy-mm-dd HH:MM:SS.
Offset	No	Integer	The query list offset, which defaults to 0.
Limit	No	Integer	The maximum number of queries allowed in the list, which defaults to 100.

3. Output Parameters

Parameter Name	Type	Description
SparkAppJobs	Array of SparkJobInfo	Detailed list of Spark jobs
TotalCount	Integer	Total number of Spark jobs
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 Queries the list of Spark jobs

This example shows you how to query the list of Spark jobs.

Input Example

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

{
"Sorting": "desc",
"SortBy": "create-time",
"StartTime": "2022-01-01 00:00:00",
"EndTime": "2022-01-01 00:00:00",
"Filters": [
```

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```
{
"Values": [
"value"
],
"Name": "key"
}
],
"Offset": 0,
"Limit": 10
}
```

Output Example

```
{
"Response": {
"RequestId": "2ae4707a-9f72-44aa-9fd4-65cb739d6301",
"SparkAppJobs": [],
"TotalCount": 0
}
}
```

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

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.InvalidTimeFormat	The specified time format is not compliant. Currently, only YYYY-mm-dd HH:MM:SS is supported.
InvalidParameter.SparkJobFiltersKeyTypeNotMath	The specified Spark task Filter.Key does not match. Currently, only spark-app-type/user-name/spark-job-name/spark-job-id/key-word is supported.
InvalidParameter.SparkJobSortByTypeNotMatch	The specified Spark task sorting type does not match. Currently, only create-time/update-time/user-name/data-engine-name is supported.
ResourceNotFound	The resource does not exist.
ResourceNotFound.BatchSQLTaskNotFound	The specified interactive SQL task does not exist.

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ModifySparkAppBatch

Last updated：2024-08-08 15:32:00

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to modify Spark job parameters in batches.

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	Common Params. The value used for this API: ModifySparkAppBatch.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SparkAppId.N	Yes	Array of String	The list of the IDs of the Spark job tasks to be modified in batches.
DataEngine	No	String	The engine ID.
AppDriverSize	No	String	The driver size. Valid values for the standard resource type: `small`, `medium`, `large`, and `xlarge`.

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			Valid values for the memory resource type: `m.small` , `m.medium` , `m.large` , and `m.xlarge` .
AppExecutorSize	No	String	The executor size. Valid values for the standard resource type: `small` , `medium` , `large` , and `xlarge` . Valid values for the memory resource type: `m.small` , `m.medium` , `m.large` , and `m.xlarge` .
AppExecutorNums	No	Integer	The executor count. The minimum value is 1 and the maximum value is less than the cluster specification.
AppExecutorMaxNumbers	No	Integer	The maximum executor count (in dynamic configuration scenarios). The minimum value is 1 and the maximum value is less than the cluster specification. If you set `ExecutorMaxNumbers` to a value smaller than that of `ExecutorNums` , the value of `ExecutorMaxNumbers` is automatically changed to that of `ExecutorNums` .
IsInherit	No	Integer	Whether to inherit the task resource configuration from the cluster template. Valid values: `0` (default): No; `1` : Yes.

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 Spark job parameters in batches

This example shows you how to modify Spark job parameters in batches.

Input Example

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

{
"SparkAppId": [
"batch_a7dca867-b941-4294-af9e-3dsefc086f1e"
],
"DataEngine": "DataEngine-dde2f7vq",
"AppDriverSize": "small",
"AppExecutorSize": "small",
"AppExecutorNums": 1,
"AppExecutorMaxNumbers": 1,
"IsInherit": 0
}
```

Output Example

```
{
"Response": {
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SparkJobIsInheritTypeNotMatch	The specified Spark task IsInherit type does not match. Currently, it only supports: 0: Inherit; 1: Do not inherit.
ResourceInsufficient.SparkJobInsufficientResources	The specified spark job resources are insufficient. Please adjust the driver/executor specifications.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.

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DescribeTaskStatistics

Last updated：2024-08-21 19:10:20

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to describe the information on task statistics.

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	Common Params. The value used for this API: DescribeTaskStatistics.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TaskId	No	String	Task ID

3. Output Parameters

Parameter Name	Type	Description
StatisticInfo	StatisticInfo	Task statistics information.

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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 Obtaining Information on Task Statistics

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeTaskStatistics

{
"TaskId": "4ad30ca9-8b0e-499f-b4e1-d6e43ba0e564"
}
```

Output Example

```
{
"Response": {
"RequestId": "9328049f-30bc-4feb-aecf-e3b4ff2d1b00",
"StatisticInfo": {
"TaskId": "9e20f9c021cb11ec835f5254006c64af",
"TotalProcessedBytes": 850363,
"UsedTime": 1761,
"TotalTime": 2000,
"CreateTime": "1632991895728",
"EndTime": "1632991897728",
"StartTime": "1632991896728",
"RowsAffect": "59378"
}
}
}
```

5. Developer Resources

SDK

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- 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	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.TaskNotFound	The task does not exist.

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DescribeQuery

Last updated：2024-08-21 19:10:21

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the query results.

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	Common Params. The value used for this API: DescribeQuery.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TaskId	Yes	String	Task ID

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Task ID

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SQL	String	The SQL being executed currently. A task contains one SQL.
SQLType	String	The currently executed task types are divided into DDL, DML, and DQL.
State	Integer	The current status of the task is 0: initializing; 1: running; 2: executed; 3: writing data; 4: queuing; -1: task execution failed; -3: manually terminated. The task execution result is returned only when the task is successfully executed.
DataSet	String	Default data set 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 Obtaining the Query Information

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeQuery

{
"TaskId": "9e20f9c021cb11ec835f5254006c64af"
}
```

Output Example

```
{
"Response": {
"RequestId": "9328049f-30bc-4feb-aecf-e3b4ff2d1b00",
"TaskId": "9e20f9c021cb11ec835f5254006c64af",
"SQL": "SELECT * FROM `auth_test`.`hive_test` LIMIT 10",
"SQLType": "DDL",
"State": 2,
"DataSet": "{\"Schema\":[\"name\",\"age\"],\"Data\":[{\"name\":\"29\",\"age\":\"M
ichael\"}]}"
}
}
```

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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
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.TaskNotFound	The task does not exist.

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DescribeJobs

Last updated：2024-08-21 19:10:23

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the list of job information.

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	Common Params. The value used for this API: DescribeJobs.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Keyword	No	String	Query keywords
Pattern	No	String	Matching mode
Limit	No	Integer	Pagination parameters
Offset	No	Integer	Pagination parameters
Sort	No	String	Sorting fields
Asc	No	Boolean	Sorting fields, and true means the ascending order (by default) while

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			false means the descending order.

3. Output Parameters

Parameter Name	Type	Description
JobList	Array of JobResponseInfo	List of job information
TotalCount	Integer	Statistics
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 Obtaining the List of Job Information

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeJobs

{}
```

Output Example

```
{
"Response": {
"JobList": [
{
"JobName": "abc",
"StatisticInfo": {
"TaskId": "abc",
"TotalProcessedBytes": 0,
"UsedTime": 0,
```

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```
"CreateTime": 0,
"EndTime": 0,
"StartTime": 0,
"RowsAffect": 0,
"TotalTime": 0
},
"JobConfiguration": "abc",
"JobStatus": 0
}
],
"TotalCount": 0,
"RequestId": "abc"
}
}
```


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

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InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.JobNotFound	Job not found.

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DescribeJob

Last updated：2024-08-21 19:10:24

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the job information.

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	Common Params. The value used for this API: DescribeJob.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
JobId	Yes	String	Job ID

3. Output Parameters

Parameter Name	Type	Description
JobName	String	Job name

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StatisticInfo	StatisticInfo	Task statistics information. Note: This field may return null, indicating that no valid values can be obtained.
JobConfiguration	String	Job configuration
JobStatus	Integer	Job 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 Querying Job Information

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeJob

{
"JobId": "9e20f9c021cb11ec835f5254006c64af"
}
```

Output Example

```
{
"Response": {
"RequestId": "9328049f-30bc-4feb-aecf-e3b4ff2d1b00",
"JobName": "name",
"JobConfiguration": "[{\"key\":\"value\"}]",
"JobStatus": 2,
"StatisticInfo": {
"TaskId": "9e20f9c021cb11ec835f5254006c64af",
"TotalProcessedBytes": 850363,
"UsedTime": 1761,
"TotalTime": 2000,
"CreateTime": "1632991895728",
"EndTime": "1632991897728",
"StartTime": "1632991896728",
```

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```
"RowsAffect": "59378"
}
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.JobNotFound	Job not found.

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Metadata APIs
AlterDMSDatabase

Last updated：2024-08-08 15:32:40

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to update databases in the DMS metadata module.

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	Common Params. The value used for this API: AlterDMSDatabase.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
CurrentName	No	String	Current name
SchemaName	No	String	Schema name
Location	No	String	Path
Asset	No	Asset	Basic object

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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 Updating Databases in the DMS Metadata Module

Input Example

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

{
"CurrentName": "abc",
"SchemaName": "abc",
"Location": "abc",
"Asset": {
"Id": 0,
"Name": "abc",
"Guid": "abc",
"Catalog": "abc",
"Description": "abc",
"Owner": "abc",
"OwnerAccount": "abc",
"PermValues": [
{
"Key": "abc",
"Value": "abc"
}
],
"Params": [
{
"Key": "abc",
"Value": "abc"
```

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```
}
],
"BizParams": [
{
"Key": "abc",
"Value": "abc"
}
],
"DataVersion": 0,
"CreateTime": "2020-09-22T00:00:00+00:00",
"ModifiedTime": "2020-09-22T00:00:00+00:00",
"DatasourceId": 0
}
}
```

Output Example

```
{
"Response": {
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Node.js
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Command Line Interface

- Tencent Cloud CLI 3.0

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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CreateDMSDatabase

Last updated：2024-08-08 15:32:39

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create databases in the DMS metadata module.

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	Common Params. The value used for this API: CreateDMSDatabase.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Asset	No	Asset	Basic metadata object
SchemaName	No	String	Schema directory
Location	No	String	Db storage path
Name	No	String	Database name

3. Output Parameters

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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 Creating Databases in the DMS Metadata Module

Input Example

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

{
"Asset": {
"Description": "API test database",
"ModifiedTime": "2023-07-24T15:26:30+00:00",
"DataVersion": 0,
"BizParams": [
{
"Value": "",
"Key": ""
}
],
"OwnerAccount": "100016321234396",
"CreateTime": "2023-07-24T15:26:30+00:00",
"Catalog": "",
"Params": [
{
"Value": "",
"Key": ""
}
],
"PermValues": [
{
"Value": "",
"Key": ""
}
```

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```
],
"Owner": "100016334432227396",
"DatasourceId": 100,
"Guid": "123-456-789",
"Id": 1,
"Name": "api_test"
},
"SchemaName": "api_test",
"Location": "cosn://api_test",
"Name": "api_test"
}
```

Output Example

```
{
"Response": {
"RequestId": "xxx-xxx-xxx"
}
}
```

5. Developer Resources

SDK

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

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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

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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DescribeDMSDatabase

Last updated：2024-08-08 15:32:38

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain databases in the DMS metadata module.

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	Common Params. The value used for this API: DescribeDMSDatabase.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Name	No	String	Database name
SchemaName	No	String	Schema name
Pattern	No	String	Match rules

3. Output Parameters

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Parameter Name	Type	Description
Name	String	Database name Note: This field may return null, indicating that no valid values can be obtained.
SchemaName	String	Schema name Note: This field may return null, indicating that no valid values can be obtained.
Location	String	Storage address Note: This field may return null, indicating that no valid values can be obtained.
Asset	Asset	Data object 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 Obtaining Databases in the DMS Metadata Module

Input Example

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

{
"Name": "Name1",
"SchemaName": "Schema1",
"Pattern": "*"
}
```

Output Example

```
{
"Response": {
"Name": "abc",
"SchemaName": "abc",
"Location": "abc",
```

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```
"Asset": {
"Id": 0,
"Name": "abc",
"Guid": "abc",
"Catalog": "abc",
"Description": "abc",
"Owner": "abc",
"OwnerAccount": "abc",
"PermValues": [
{
"Key": "abc",
"Value": "abc"
}
],
"Params": [
{
"Key": "abc",
"Value": "abc"
}
],
"BizParams": [
{
"Key": "abc",
"Value": "abc"
}
],
"DataVersion": 0,
"CreateTime": "2020-09-22T00:00:00+00:00",
"ModifiedTime": "2020-09-22T00:00:00+00:00",
"DatasourceId": 0
},
"RequestId": "abc"
}
}
```


5. Developer Resources

SDK

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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DescribeTablesName

Last updated：2024-08-08 15:32:37

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the data table name list.

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	Common Params. The value used for this API: Describe
Version	Yes	String	Common Params. The value used for this API: 2021-01-
Region	Yes	String	Common Params. For more information, please see the
DatabaseName	Yes	String	List all the data tables in the database.
Limit	No	Integer	Quantity of returns. It is 10 by default, and the maximum
Offset	No	Integer	Data offset. It starts from 0 and is 0 by default.
Filters.N	No	Array of Filter	Filter criteria. The following filter types are supported. Th Table-name - String - (filter criteria) data table name, su table-id - String - (filter criteria) table id, such as 12342.
DatasourceConnectionName	No	String	Specified data source name to be queried, and it is Data
StartTime	No	String	Start time: It is used to filter the update time, and the forr

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EndTime	No	String	End time: It is used to filter the update time, and the form
Sort	No	String	Sorting fields, and they support CreateTime (creation tin space), RecordCount (number of rows), and Name (tabl adopted if it is not passed).
Asc	No	Boolean	Sorting fields, and false means the descending order (by
TableType	No	String	Table type, query of the table type, and the available val EXTERNAL_TABLE,INDEX_TABLE,MANAGED_TABL
TableFormat	No	String	Filter fields - table format: If no criteria are specified, all t ICEBERG: non-managed iceberg table; HIVE: non-mana

3. Output Parameters

Parameter Name	Type	Description
TableNameList	Array of String	Object list of data table names
TotalCount	Integer	Total 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 Querying the Data Table Name List

Input Example

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

{
"Limit": 0,
```

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```
"Offset": 1,
"DatabaseName": "abc",
"Filters": [
{
"Name": "abc",
"Values": [
"abc"
]
}
],
"DatasourceConnectionName": "abc",
"StartTime": "abc",
"EndTime": "abc",
"Sort": "abc",
"Asc": true,
"TableType": "abc",
"TableFormat": "abc"
}
```

Output Example

```
{
"Response": {
"TableNameList": [
"abc"
],
"TotalCount": 1,
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound.DatasourceNotFound	The data source connection does not exist. Please try again or submit a ticket to contact us.

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DropDMSDatabase

Last updated：2024-08-08 15:32:37

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete databases in the DMS metadata module.

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	Common Params. The value used for this API: DropDMSDatabase.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Name	Yes	String	Database name
DeleteData	No	Boolean	Whether to delete the data.
Cascade	No	Boolean	Whether to use cascade delete.

3. Output Parameters

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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 Databases in the DMS Metadata Module

Input Example

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

{
"Name": "Name1",
"DeleteData": false,
"Cascade": false
}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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DescribeForbiddenTablePro

Last updated：2024-08-08 15:32:38

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to get the list of disabled table attributes (new).

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	Common Params. The value used for this API: DescribeForbiddenTablePro.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

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

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		RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the list of disabled table attributes (new)

This example shows you how to get the list of disabled table attributes (new).

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidSQL	SQL parsing failed.
ResourceNotFound	The resource does not exist.

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DescribeDLCCatalogAccess

Last updated：2024-08-08 15:32:39

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the DLC Catalog authorization list.

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	Common Params. The value used for this API: DescribeDLCCatalogAccess.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Limit	No	Integer	Displayed records
Offset	No	Integer	Number of records
Filter	No	Filter	Filter criteria

3. Output Parameters

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Parameter Name	Type	Description
TotalCount	Integer	Total
Rows	Array of DLCCatalogAccess	List of the permissions granted by DLCCatalog
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 DLC Catalog Authorization List

This example shows you how to query the DLC Catalog authorization list.

Input Example

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

{}
```

Output Example

```
{
"Response": {
"TotalCount": 20,
"Rows": [
{
"VpcId": "vpc-12345",
"Product": "EMR",
"Description": "EMR production cluster",
"CreateTime": "October 1, 2024"
}
],
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
```

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```
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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GrantDLCCatalogAccess

Last updated：2024-08-08 15:32:35

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to grant permissions for visiting DLC Catalog.

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	Common Params. The value used for this API: GrantDLCCatalogAccess.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
VpcId	Yes	String	Authorized VpcId
Product	Yes	String	Product (EMR|DLC|Doris|Inlong|Wedata)
Description	No	String	Description
VpcUin	No	String	UIN of the account to which VPC belongs
VpcAppId	No	Integer	AppId of the account to which VPC belongs

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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 Granting Permissions for Accessing DLC Metadata

This example shows you how to grant permissions for accessing DLC metadata.

Input Example

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

{
"VpcId": "vpc-1234",
"Product": "EMR",
"Description": "EMR production cluster",
}
```

Output Example

```
{
"Response": {
"RequestId": "1234-4567"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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RevokeDLCCatalogAccess

Last updated：2024-08-08 15:32:35

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to revoke permissions for visiting DLC Catalog.

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	Common Params. The value used for this API: RevokeDLCCatalogAccess.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
VpcId	Yes	String	VpcID

3. Output Parameters

Parameter Name	Type	Description

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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 Revoking Permissions for Visiting DLC Catalog

This example shows you how to revoke permissions for visiting DLC Catalog.

Input Example

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

{
"VpcId": "vpc-123"
}
```

Output Example

```
{
"Response": {
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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DropDMSTable

Last updated：2024-08-08 15:33:26

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete tables in the DMS metadata module.

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	Common Params. The value used for this API: DropDMSTable.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DbName	No	String	Database name
Name	No	String	Table name
DeleteData	No	Boolean	Whether to delete the data
EnvProps	No	KVPair	Environment properties

3. Output Parameters

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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 Tables in the DMS Metadata Module

Input Example

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

{
"DbName": "abc",
"Name": "abc",
"DeleteData": true,
"EnvProps": {
"Key": "abc",
"Value": "abc"
}
}
```

Output Example

```
{
"Response": {
"RequestId": "xxx-xxx-xxx"
}
}
```

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
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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DropDLCTable

Last updated：2024-08-21 19:10:28

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete the table.

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	Common Params. The value used for this API: DropDLCTable.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineName	Yes	String	Engine name
DbName	No	String	Database name
Name	No	String	Data table name
DeleteData	No	Boolean	Whether to delete the data
ResourceGroupName	No	String	Resource group name

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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 the Table

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DropDLCTable

{
"DbName": "database1",
"Name": "table1",
"DeleteData": true,
"DataEngineName": "engine1",
"ResourceGroupName": "group1"
}
```

Output Example

```
{
"Response": {
"RequestId": "xxx-xxx-xxx"
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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DescribeDMSDatabaseList

Last updated：2024-08-21 19:10:30

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain 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	Common Params. The value used for this API: DescribeDMSDatabaseList.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Name	No	String	Database name
SchemaName	No	String	Schema name
Pattern	No	String	Match rules
Limit	No	Integer	Pagination parameters, indicating the size of a single page.
Offset	No	Integer	Pagination parameters

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Sort	No	String	Sorting fields
Asc	No	Boolean	Sorting fields: true for ascending order; false for descending order

3. Output Parameters

Parameter Name	Type	Description
DatabaseList	Array of DMSDatabaseInfo	List of database objects for the DMS
TotalCount	Integer	Total number of 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 Obtaining the List of Databases

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDMSDatabaseList

{
"Name": "Name1",
"SchemaName": "Schema1",
"Pattern": "*"
}
```

Output Example

```
{
"Response": {
"DatabaseList": [
{
```

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```
"Name": "table1",
"SchemaName": "schema1",
"Location": "cosn://test",
"Asset": {
"Id": 0,
"Name": "table1",
"Guid": "abc",
"Catalog": "catalog",
"Description": "test",
"Owner": "abc",
"OwnerAccount": "abc",
"PermValues": [
{
"Key": "abc",
"Value": "abc"
}
],
"Params": [
{
"Key": "abc",
"Value": "abc"
}
],
"BizParams": [
{
"Key": "abc",
"Value": "abc"
}
],
"DataVersion": 1,
"CreateTime": "2020-09-22T00:00:00+00:00",
"ModifiedTime": "2020-09-22T00:00:00+00:00",
"DatasourceId": 0
}
}
],
"TotalCount": 0,
"RequestId": "abc"
}
}
```


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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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DescribeDLCTableList

Last updated：2024-08-21 19:10:31

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the list of tables.

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	Common Params. The value used for this API: DescribeDLCTableList.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DbName	No	String	Database name
Catalog	No	String	Catalog name
Filters	No	Filter	Query the list's filter criteria.
Type	No	String	Table type
StartTime	No	String	Start time

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EndTime	No	String	End time
Limit	No	Integer	Pagination parameters
Offset	No	Integer	Pagination parameters
Sort	No	String	Sorting fields
Asc	No	Boolean	Sorting rules: true for ascending order; false for descending order
TableFormat	No	String	Data format type: hive, iceberg, etc.

3. Output Parameters

Parameter Name	Type	Description
TableList	Array of DLCTable	DLC metadata list information Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Statistical value
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 Obtaining the List of Tables

Input Example

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

{
"DbName": "abc",
"Catalog": "abc",
"Filters": {
"Name": "abc",
```

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```
"Values": [
"abc"
]
},
"Type": "abc",
"StartTime": "abc",
"EndTime": "abc",
"Limit": 0,
"Offset": 0,
"Sort": "abc",
"Asc": true,
"TableFormat": "abc"
}
```

Output Example

```
{
"Response": {
"TableList": [
{
"TableBaseInfo": {
"DatabaseName": "abc",
"TableName": "abc",
"DatasourceConnectionName": "abc",
"TableComment": "abc",
"Type": "abc",
"TableFormat": "abc",
"UserAlias": "abc",
"UserSubUin": "abc",
"GovernPolicy": {
"RuleType": "abc",
"GovernEngine": "abc"
},
"DbGovernPolicyIsDisable": "abc",
"SmartPolicy": {
"BaseInfo": {
"Uin": "abc",
"PolicyType": "abc",
"Catalog": "abc",
"Database": "abc",
"Table": "abc",
"AppId": "abc"
},
"Policy": {
"Inherit": "abc",
"Resources": [
```

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```
{
"AttributionType": "abc",
"ResourceType": "abc",
"Name": "abc",
"Instance": "abc",
"Favor": [
{
"Priority": 0,
"Catalog": "abc",
"DataBase": "abc",
"Table": "abc"
}
],
"Status": 0
}
],
"Written": {
"WrittenEnable": "abc"
},
"Lifecycle": {
"LifecycleEnable": "abc",
"Expiration": 0,
"DropTable": true,
"ExpiredField": "abc",
"ExpiredFieldFormat": "abc"
},
"Index": {
"IndexEnable": "abc"
}
}
}
},
"Columns": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"Default": "abc",
"NotNull": true,
"Precision": 0,
"Scale": 0,
"Position": 0,
"IsPartition": true
}
],
"Partitions": [
{
```


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```
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"PartitionType": "abc",
"PartitionFormat": "abc",
"PartitionDot": 0,
"Transform": "abc",
"TransformArgs": [
"abc"
]
}
],
"Location": "abc",
"Properties": [
{
"Key": "abc",
"Value": "abc"
}
],
"ModifiedTime": "abc",
"CreateTime": "abc",
"InputFormat": "abc",
"StorageSize": 0,
"RecordCount": 0,
"MapMaterializedViewName": "abc",
"HeatValue": 0,
"ExternalDataConfiguration": {
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"Params": [],
"SerdeParams": [],
"SortColumns": [],
"BucketCols": [
"abc"
],
"SortCols": {
"Col": "abc",
"Order": 0
},
"Cols": [
```


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```
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"IsPartition": true
}
]
},
"ViewOriginalText": "abc",
"ViewExpandedText": "abc",
"Retention": 0,
"LifeTime": 0,
"Partitions": [
{
"DatabaseName": "abc",
"SchemaName": "abc",
"TableName": "abc",
"DataVersion": 0,
"Name": "abc",
"Params": [],
"Values": [
"abc"
],
"StorageSize": 0,
"RecordCount": 0,
"CreateTime": "2020-09-22T00:00:00+00:00",
"ModifiedTime": "2020-09-22T00:00:00+00:00",
"LastAccessTime": "2020-09-22T00:00:00+00:00",
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"Params": [],
"SerdeParams": [],
"SortColumns": [],
"BucketCols": [
"abc"
],
"SortCols": {
"Col": "abc",
"Order": 0
```


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```
},
"Cols": [
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"IsPartition": true
}
]
}
}
]
}
}
],
"TotalCount": 0,
"RequestId": "abc"
}
}
```


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
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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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	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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DescribeDLCTable

Last updated：2024-08-21 19:10:32

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the table.

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	Common Params. The value used for this API: DescribeDLCTable.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DbName	No	String	Database name
Name	No	String	Data table name
Catalog	No	String	Catalog name
Keyword	No	String	Keyword
Pattern	No	String	Match rules
Type	No	String	Table type

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3. Output Parameters

Parameter Name	Type	Description
DLCTable	DLCTable	Data table information object 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 Obtaining the Table

Input Example

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

{
"DbName": "api_test",
"Catalog": "",
"Name": "test",
"Keyword": "",
"Pattern": "*",
"Type": " INTERNAL_TABLE"
}
```

Output Example

```
{
"Response": {
"DLCTable": {
"TableBaseInfo": {
"DatabaseName": "abc",
"TableName": "abc",
"DatasourceConnectionName": "abc",
"TableComment": "abc",
```

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```
"Type": "abc",
"TableFormat": "abc",
"UserAlias": "abc",
"UserSubUin": "abc",
"GovernPolicy": {
"RuleType": "abc",
"GovernEngine": "abc"
},
"DbGovernPolicyIsDisable": "abc",
"SmartPolicy": {
"BaseInfo": {
"Uin": "abc",
"PolicyType": "abc",
"Catalog": "abc",
"Database": "abc",
"Table": "abc",
"AppId": "abc"
},
"Policy": {
"Inherit": "abc",
"Resources": [
{
"AttributionType": "abc",
"ResourceType": "abc",
"Name": "abc",
"Instance": "abc",
"Favor": [
{
"Priority": 0,
"Catalog": "abc",
"DataBase": "abc",
"Table": "abc"
}
],
"Status": 0
}
],
"Written": {
"WrittenEnable": "abc"
},
"Lifecycle": {
"LifecycleEnable": "abc",
"Expiration": 0,
"DropTable": true,
"ExpiredField": "abc",
"ExpiredFieldFormat": "abc"
},
```


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```
"Index": {
"IndexEnable": "abc"
}
}
}
},
"Columns": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"Default": "abc",
"NotNull": true,
"Precision": 0,
"Scale": 0,
"Position": 0,
"IsPartition": true
}
],
"Partitions": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"PartitionType": "abc",
"PartitionFormat": "abc",
"PartitionDot": 0,
"Transform": "abc",
"TransformArgs": [
"abc"
]
}
],
"Location": "abc",
"Properties": [
{
"Key": "abc",
"Value": "abc"
}
],
"ModifiedTime": "abc",
"CreateTime": "abc",
"InputFormat": "abc",
"StorageSize": 0,
"RecordCount": 0,
"MapMaterializedViewName": "abc",
"HeatValue": 0,
```


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```
"ExternalDataConfiguration": {
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"Params": [],
"SerdeParams": [],
"SortColumns": [],
"BucketCols": [
"abc"
],
"SortCols": {
"Col": "abc",
"Order": 0
},
"Cols": [
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"IsPartition": true
}
]
},
"ViewOriginalText": "abc",
"ViewExpandedText": "abc",
"Retention": 0,
"LifeTime": 0,
"Partitions": [
{
"DatabaseName": "abc",
"SchemaName": "abc",
"TableName": "abc",
"DataVersion": 0,
"Name": "abc",
"Params": [],
"Values": [
"abc"
],
"StorageSize": 0,
"RecordCount": 0,
```


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```
"CreateTime": "2020-09-22T00:00:00+00:00",
"ModifiedTime": "2020-09-22T00:00:00+00:00",
"LastAccessTime": "2020-09-22T00:00:00+00:00",
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"Params": [],
"SerdeParams": [],
"SortColumns": [],
"BucketCols": [
"abc"
],
"SortCols": {
"Col": "abc",
"Order": 0
},
"Cols": [
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"IsPartition": true
}
]
}
}
]
}
},
"RequestId": "abc"
}
}
```


5. Developer Resources

SDK

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- 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	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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CreateDLCTable

Last updated：2024-08-21 19:10:34

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create a table.

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	Common Params. The value used for this API: CreateDLCTable.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
TableBaseInfo	Yes	TableBaseInfo	Data table configuration information
TableType	Yes	String	Table type
Columns.N	No	Array of TColumn	Data table column information
Partitions.N	No	Array of TPartition	Data table partition information
Properties.N	No	Array of Property	Data table attribute information

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ExternalDataConfiguration	No	ExternalDataConfiguration	External table configuration information
DataEngineName	No	String	Engine name
ResourceGroupname	No	String	Resource group name

3. Output Parameters

Parameter Name	Type	Description
DLCTable	DLCTable	DLC table information object Note: This field may return null, indicating that no valid values can be obtained.
Execution	String	The SQL statement for creating a managed storage internal table
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 Table

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateDLCTable

{
"TableBaseInfo": {
"DatabaseName": "abc",
"TableName": "abc",
"DatasourceConnectionName": "abc",
"TableComment": "abc",
"Type": "abc",
"TableFormat": "abc",
"UserAlias": "abc",
"UserSubUin": "abc",
```

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```
"GovernPolicy": {
"RuleType": "abc",
"GovernEngine": "abc"
},
"DbGovernPolicyIsDisable": "abc",
"SmartPolicy": {
"BaseInfo": {
"Uin": "abc",
"PolicyType": "abc",
"Catalog": "abc",
"Database": "abc",
"Table": "abc",
"AppId": "abc"
},
"Policy": {
"Inherit": "abc",
"Resources": [
{
"AttributionType": "abc",
"ResourceType": "abc",
"Name": "abc",
"Instance": "abc",
"Favor": [
{
"Priority": 0,
"Catalog": "abc",
"DataBase": "abc",
"Table": "abc"
}
],
"Status": 0
}
],
"Written": {
"WrittenEnable": "abc"
},
"Lifecycle": {
"LifecycleEnable": "abc",
"Expiration": 0,
"DropTable": true,
"ExpiredField": "abc",
"ExpiredFieldFormat": "abc"
},
"Index": {
"IndexEnable": "abc"
}
}
```


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```
}
},
"TableType": "abc",
"Columns": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"Default": "abc",
"NotNull": true,
"Precision": 0,
"Scale": 0
}
],
"Partitions": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"PartitionType": "abc",
"PartitionFormat": "abc",
"PartitionDot": 0,
"Transform": "abc",
"TransformArgs": [
"abc"
]
}
],
"Properties": [
{
"Key": "abc",
"Value": "abc"
}
],
"ExternalDataConfiguration": {
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"BucketCols": [
"abc"
],
```


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```
"SerdeParams": [
{
"Key": "abc",
"Value": "abc"
}
],
"Params": [
{
"Key": "abc",
"Value": "abc"
}
],
"SortCols": {
"Col": "abc",
"Order": 0
},
"Cols": [
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"Params": [
{
"Key": "abc",
"Value": "abc"
}
],
"IsPartition": true
}
],
"SortColumns": [
{
"Col": "abc",
"Order": 0
}
]
},
"ViewOriginalText": "abc",
"ViewExpandedText": "abc",
"Retention": 0,
"LifeTime": 0,
"Partitions": [
{
"DatabaseName": "abc",
"SchemaName": "abc",
"TableName": "abc",
```


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```
"DataVersion": 0,
"Name": "abc",
"Values": [
"abc"
],
"StorageSize": 0,
"RecordCount": 0,
"CreateTime": "2020-09-22T00:00:00+00:00",
"ModifiedTime": "2020-09-22T00:00:00+00:00",
"LastAccessTime": "2020-09-22T00:00:00+00:00",
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"BucketCols": [
"abc"
],
"SortCols": {
"Col": "abc",
"Order": 0
},
"Cols": [
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"IsPartition": true
}
]
}
}
]
},
"DataEngineName": "abc",
"ResourceGroupname": "abc"
}
```


Output Example

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```
{
"Response": {
"DLCTable": {
"TableBaseInfo": {
"DatabaseName": "abc",
"TableName": "abc",
"DatasourceConnectionName": "abc",
"TableComment": "abc",
"Type": "abc",
"TableFormat": "abc",
"UserAlias": "abc",
"UserSubUin": "abc",
"GovernPolicy": {
"RuleType": "abc",
"GovernEngine": "abc"
},
"DbGovernPolicyIsDisable": "abc",
"SmartPolicy": {
"BaseInfo": {
"Uin": "abc",
"PolicyType": "abc",
"Catalog": "abc",
"Database": "abc",
"Table": "abc",
"AppId": "abc"
},
"Policy": {
"Inherit": "abc",
"Resources": [
{
"AttributionType": "abc",
"ResourceType": "abc",
"Name": "abc",
"Instance": "abc",
"Favor": [
{
"Priority": 0,
"Catalog": "abc",
"DataBase": "abc",
"Table": "abc"
}
],
"Status": 0
}
],
"Written": {
```


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```
"WrittenEnable": "abc"
},
"Lifecycle": {
"LifecycleEnable": "abc",
"Expiration": 0,
"DropTable": true,
"ExpiredField": "abc",
"ExpiredFieldFormat": "abc"
},
"Index": {
"IndexEnable": "abc"
}
}
}
},
"Columns": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"Default": "abc",
"NotNull": true,
"Precision": 0,
"Scale": 0,
"Position": 0,
"IsPartition": true
}
],
"Partitions": [
{
"Name": "abc",
"Type": "abc",
"Comment": "abc",
"PartitionType": "abc",
"PartitionFormat": "abc",
"PartitionDot": 0,
"Transform": "abc",
"TransformArgs": [
"abc"
]
}
],
"Location": "abc",
"Properties": [
{
"Key": "abc",
"Value": "abc"
```


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```
}
],
"ModifiedTime": "abc",
"CreateTime": "abc",
"InputFormat": "abc",
"StorageSize": 0,
"RecordCount": 0,
"MapMaterializedViewName": "abc",
"HeatValue": 0,
"ExternalDataConfiguration": {
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"Params": [],
"SerdeParams": [],
"SortColumns": [],
"BucketCols": [
"abc"
],
"SortCols": {
"Col": "abc",
"Order": 0
},
"Cols": [
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"IsPartition": true
}
]
},
"ViewOriginalText": "abc",
"ViewExpandedText": "abc",
"Retention": 0,
"LifeTime": 0,
"Partitions": [
{
"DatabaseName": "abc",
"SchemaName": "abc",
```


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```
"TableName": "abc",
"DataVersion": 0,
"Name": "abc",
"Params": [],
"Values": [
"abc"
],
"StorageSize": 0,
"RecordCount": 0,
"CreateTime": "2020-09-22T00:00:00+00:00",
"ModifiedTime": "2020-09-22T00:00:00+00:00",
"LastAccessTime": "2020-09-22T00:00:00+00:00",
"Sds": {
"Location": "abc",
"InputFormat": "abc",
"OutputFormat": "abc",
"NumBuckets": 0,
"Compressed": true,
"StoredAsSubDirectories": true,
"SerdeLib": "abc",
"SerdeName": "abc",
"Params": [],
"SerdeParams": [],
"SortColumns": [],
"BucketCols": [
"abc"
],
"SortCols": {
"Col": "abc",
"Order": 0
},
"Cols": [
{
"Name": "abc",
"Description": "abc",
"Type": "abc",
"Position": 0,
"IsPartition": true
}
]
}
}
]
}
},
"Execution": "create table `table1` ()",
"RequestId": "abc"
```


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```
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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CopyDLCTable

Last updated：2024-08-21 19:10:36

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to copy a table.

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	Common Params. The value used for this API: CopyDLCTable.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SourceData.N	Yes	Array of DMSSourceDatabaseInfo	Description of the source data table name
DestinationDatabaseName	Yes	String	Target database name
DestinationTableName	Yes	String	Target data table name
DataEngineName	Yes	String	Engine name

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IsCreateTable	Yes	Boolean	Whether to create a new table
Catalog	No	String	Catalog name
ResourceGroupName	No	String	Resource group name

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Task ID 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 Copying a Table

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CopyDLCTable

{
"SourceData": [
{
"SourceDatabaseName": "db1",
"SourceTableNameList": [
"table1"
]
}
],
"Catalog": "catalog",
"DestinationDatabaseName": "db2",
"DestinationTableName": "table2",
"DataEngineName": "data_engine_1",
```

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```
"ResourceGroupName": "ResourceGroupName1",
"IsCreateTable": true
}
```

Output Example

```
{
"Response": {
"TaskId": "123-abc",
"RequestId": "123-abc"
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.

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InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

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Service Configuration APIs
CreateCHDFSBindingProduct

Last updated：2024-08-08 15:32:22

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create metadata acceleration buckets and the binding relationship between products.

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	Common Params. The value used for this API: CreateCHDFSBindingProduct.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
MountPoint	Yes	String	Names of metadata acceleration buckets to be bound
BucketType	Yes	String	Types of buckets which are divided into cos and lakefs
ProductName	Yes	String	Product name
EngineName	No	String	Engine name. When ProductName selects DLC products, this parameter must be specified. When ProductName selects other

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			products, it can be unspecified.
VpcInfo.N	No	Array of VpcInfo	VPC information. When the product name is other, this parameter must be specified.

3. Output Parameters

Parameter Name	Type	Description
MountPointAssociates	Array of MountPointAssociates	Binding information 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 Example

This example shows you the example.

Input Example

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

{
"MountPoint": "abc",
"BucketType": "abc",
"ProductName": "abc",
"EngineName": "abc"
}
```

Output Example

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```
{
"Response": {
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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- 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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.

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DeleteCHDFSBindingProduct

Last updated：2024-08-08 15:32:20

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete the binding relationship between metadata acceleration buckets and products.

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	Common Params. The value used for this API: DeleteCHDFSBindingProduct.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
MountPoint	Yes	String	Names of metadata acceleration buckets to be unbound
BucketType	Yes	String	Types of buckets which are divided into cos and lakefs
ProductName	Yes	String	Product name
EngineName	No	String	Engine name. When ProductName selects DLC products, this parameter must be specified. When ProductName selects other products, it can be unspecified.

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VpcInfo.N	No	Array of VpcInfo	VPC information. When ProductName is other, this parameter must be specified.

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 Example

This example shows you the example.

Input Example

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

{
"MountPoint": "abc",
"BucketType": "abc",
"ProductName": "abc",
"EngineName": "abc"
}
```

Output Example

```
{
"Response": {
"RequestId": "abc"
}
}
```

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5. Developer Resources

SDK

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- 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	The operation failed.
InternalError	An internal error occurred.

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DescribeOtherCHDFSBindingList

Last updated：2024-08-08 15:32:19

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the list of metadata acceleration buckets bound to other products.

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	Common Params. The value used for this API: DescribeOtherCHDFSBindingList.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BucketId	Yes	String	Bucket name

3. Output Parameters

Parameter Name	Type	Description
OtherCHDFSBindingList	Array of	List not bound to DLC products

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	OtherCHDFSBinding	
Total	Integer	Total 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 Example

This example shows you the example.

Input Example

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

{
"BucketId": "abc"
}
```

Output Example

```
{
"Response": {
"OtherCHDFSBindingList": [
{
"ProductName": "abc",
"SuperUser": [
"abc"
],
"VpcInfo": [
{
"VpcId": "abc",
"VpcName": "abc",
"VpcCidrBlock": [
{
"CidrId": "abc",
```

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```
"CidrAddr": "abc"
}
]
}
],
"IsBind": true
}
],
"Total": 0,
"RequestId": "abc"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
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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	The operation failed.

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InternalError	An internal error occurred.

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CreateStoreLocation

Last updated：2024-08-08 15:32:21

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to add or overwrite the storage location of results.

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	Common Params. The value used for this API: CreateStoreLocation.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
StoreLocation	Yes	String	COS path for calculation results storage, such as cosn://bucketname/

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

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		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 or Modifying the Calculation Result Storage Path

Input Example

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

{
"StoreLocation": "cosn://ricky-1301xxx708/test2/"
}
```

Output Example

```
{
"Response": {
"RequestId": "4aa0c835-d58e-4faa-b7d9-be9b34a9e931"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidStoreLocation	The storage location is incorrect.

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DescribeStoreLocation

Last updated：2024-08-08 15:32:18

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the storage location of calculation results.

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	Common Params. The value used for this API: DescribeStoreLocation.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
StoreLocation	String	Return the path of the location where results are stored and which was set by the user. If it is not set, the null character string, i.e. "", will be returned. Note: This field may return null, indicating that no valid values can be obtained.

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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 Calculation Result Storage Path

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "e54c6a1d-c56c-4412-b327-299732cfcd1c",
"StoreLocation": "cosn://ricky-1301xxx708/test1/"
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.

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ModifyDataEngineDescription

Last updated：2024-08-08 15:32:16

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to modify the engine's description.

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	Common Params. The value used for this API: ModifyDataEngineDescription.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineName	Yes	String	Name of the engine to be modified
Message	Yes	String	Engine description and its maximum length is 250 characters.

3. Output Parameters

Parameter Name	Type	Description

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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 Engine Description

Input Example

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

{
"Message": "test-message",
"DataEngineName": "DataEngine-xxx"
}
```

Output Example

```
{
"Response": {
"RequestId": "jslaciaif-1lfsva9fal-12r1fca9fasef4"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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	An internal error occurred.
InternalError.DBError	A database error occurred.
InvalidParameter.InvalidDataEngineDescription	The engine description information is invalid.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
UnauthorizedOperation.ModifyComputingEngine	Sub-users cannot modify engine configuration.

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RollbackDataEngineImage

Last updated：2024-08-08 15:32:15

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to roll back the versions of the engine image.

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	Common Params. The value used for this API: RollbackDataEngineImage.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	Engine ID
FromRecordId	No	String	FromRecordId parameters returned by the API for checking the availability of rolling back
ToRecordId	No	String	ToRecordId parameters returned by the API for checking the availability of rolling back

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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 Upgrading Engine Image Version

Input Example

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

{
"DataEngineId": "DataEngine-xx",
"FromRecordId": "xxxxxx",
"ToRecordId": "xxxxxx"
}
```

Output Example

```
{
"Response": {
"RequestId": "abv"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the er
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again contact us.
InvalidParameter.DataEngineExecTypeNotMatch	The parameter ExecType passing to the specified cl Currently, only SQL or BATCH is supported.
InvalidParameter.DataEngineImageOperateNotMatch	The specified cluster image operation does not mat InitImage/UpgradeImage/SwitchImage/RollbackIma is supported.
InvalidParameter.DataEnginePayModeTypeNotMatch	The specified cluster payment type does not match. supports 0: postpaid and 1: prepaid.
InvalidParameter.DataEngineTypeNotMatch	The specified cluster type does not match. Currently is supported.

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InvalidParameter.ImageClusterParametersFormatNotJson	The specified cluster image Cluster parameter forma
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it c public and 2: private.
InvalidParameter.ImageParameterNotFound	The specified cluster image parameter does not exis
InvalidParameter.ImageSessionParametersFormatNotJson	The specified cluster image Session parameter form
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only initializing, 2: online, 3: offline.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not r only supports: 1: parentVersion; 2: childVersion; 3: p
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound.DataEngineConfigInstanceNotFound	The specified cluster configuration instance does no
ResourceNotFound.DataEngineConfigInstanceNotUnique	The specified cluster configuration instance already
ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotMultiVersion	The specified cluster is not a multi-version type and this operation.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.ImageSessionConfigNotFound	The specified cluster image Session configuration d
ResourceNotFound.ImageSessionConfigNotUnique	The specified cluster image Session configuration al
ResourceNotFound.ImageVersionNotActivity	The specified cluster image is not activated.
ResourceNotFound.ImageVersionNotUnique	The specified cluster image version already exists.

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SwitchDataEngine

Last updated：2024-08-08 15:32:14

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to switch between the primary and standby clusters.

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	Common Params. The value used for this API: SwitchDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineName	Yes	String	The name of the primary cluster.
StartStandbyCluster	Yes	Boolean	Whether to start the standby cluster.

3. Output Parameters

Parameter Name	Type	Description

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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 test

Input Example

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

{
"DataEngineName": "test",
"StartStandbyCluster": false
}
```

Output Example

```
{
"Response": {
"RequestId": "2f67771a-a384-4b4e-86a5-146d8829ae2d"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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SwitchDataEngineImage

Last updated：2024-08-08 15:32:14

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to switch the versions of the engine image.

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	Common Params. The value used for this API: SwitchDataEngineImage.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	Engine ID
NewImageVersionId	Yes	String	New image version ID

3. Output Parameters

Parameter Name	Type	Description

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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 Engine Image Version

Input Example

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

{
"DataEngineId": "DataEngine-xx",
"NewImageVersionId": "xxxxxx"
}
```

Output Example

```
{
"Response": {
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
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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	The operation failed.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the engine.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.DataEngineExecTypeNotMatch	The parameter ExecType passing to the specified cluster is invalid. Currently, only SQL or BATCH is supported.
InvalidParameter.DataEnginePayModeTypeNotMatch	The specified cluster payment type does not match. Currently, it only supports 0: postpaid and 1: prepaid.
InvalidParameter.ImageClusterParametersFormatNotJson	The specified cluster image Cluster parameter format is not JSON.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageParameterNotFound	The specified cluster image parameter does not exist.

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InvalidParameter.ImageSessionParametersFormatNotJson	The specified cluster image Session parameter format is not JSON.
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only supports 1: initializing, 2: online, 3: offline.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match. Currently, it only supports: 1: parentVersion; 2: childVersion; 3: pySpark.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound.DataEngineConfigInstanceNotFound	The specified cluster configuration instance does not exist.
ResourceNotFound.DataEngineConfigInstanceNotUnique	The specified cluster configuration instance already exists.
ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotMultiVersion	The specified cluster is not a multi-version type and does not support this operation.
ResourceNotFound.ImageSessionConfigNotFound	The specified cluster image Session configuration does not exist.
ResourceNotFound.ImageSessionConfigNotUnique	The specified cluster image Session configuration already exists.
ResourceNotFound.ImageVersionNotActivity	The specified cluster image is not activated.
ResourceNotFound.ImageVersionNotFound	The specified cluster image version does not exist.

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UpgradeDataEngineImage

Last updated：2024-08-08 15:32:11

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to upgrade the engine image.

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	Common Params. The value used for this API: UpgradeDataEngineImage.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	Engine ID

3. Output Parameters

Parameter Name	Type	Description

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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 the Engine Image Version

Input Example

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

{
"DataEngineId": "DataEngine-xx"
}
```

Output Example

```
{
"Response": {
"RequestId": "abc"
}
}
```

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	The operation failed.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the engine.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.DataEngineExecTypeNotMatch	The parameter ExecType passing to the specified cluster is invalid. Currently, only SQL or BATCH is supported.
InvalidParameter.DataEnginePayModeTypeNotMatch	The specified cluster payment type does not match. Currently, it only supports 0: postpaid and 1: prepaid.
InvalidParameter.ImageClusterParametersFormatNotJson	The specified cluster image Cluster parameter format is not JSON.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageParameterNotFound	The specified cluster image parameter does not exist.

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InvalidParameter.ImageSessionParametersFormatNotJson	The specified cluster image Session parameter format is not JSON.
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only supports 1: initializing, 2: online, 3: offline.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match. Currently, it only supports: 1: parentVersion; 2: childVersion; 3: pySpark.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound.DataEngineConfigInstanceNotFound	The specified cluster configuration instance does not exist.
ResourceNotFound.DataEngineConfigInstanceNotUnique	The specified cluster configuration instance already exists.
ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotMultiVersion	The specified cluster is not a multi-version type and does not support this operation.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.ImageSessionConfigNotFound	The specified cluster image Session configuration does not exist.
ResourceNotFound.ImageSessionConfigNotUnique	The specified cluster image Session configuration already exists.
ResourceNotFound.ImageVersionNotFound	The specified cluster image version does not exist.

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DeleteThirdPartyAccessUser

Last updated：2024-08-08 15:32:20

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to remove visits through the third-party platform.

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	Common Params. The value used for this API: DeleteThirdPartyAccessUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

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

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		RequestId). RequestId is required for locating a problem.

4. Example

Example1 Example One

This example shows you how to delete a registered user.

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "1584c994-e31c-4fb8-9a71-03b07c8fb729"
}
}
```

Example2 Instance One

This example shows you how to register to be a third-party access user.

Input Example

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

{}
```

Output Example

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```
{
"Response": {
"RequestId": "7be43271-5667-4fd4-b37a-030955cbc56f"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.

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DescribeDataEngineImageVersions

Last updated：2024-08-08 15:32:19

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the major version image list of exclusive clusters.

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	Common Params. The value used for this API: DescribeDataEngineImageVersions.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
EngineType	Yes	String	Types of engines: SQL, SparkBatch, StandardSpark, and StandardPresto
Sort	No	String	
Asc	No	Boolean	

3. Output Parameters

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Parameter Name	Type	Description
ImageParentVersions	Array of DataEngineImageVersion	Major version of the image information list of clusters
Total	Integer	Total
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 the Major Version Image List of Dedicated Clusters

This API is used to get the major version image list of dedicated clusters.

Input Example

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

{
"EngineType": "SQL"
}
```

Output Example

```
{
"Response": {
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1",
"Total": 1,
"ImageParentVersions": [
{
"UpdateTime": "2020-01-01:00:00:00",
"Description": "Test",
"IsSharedEngine": 1,
"ImageVersionId": "d3018ad4-9a7e-4f64-a3f4-f38507c69742",
"IsPublic": 1,
"State": 1,
```

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```
"InsertTime": "2020-01-01:00:00:00",
"ImageVersion": "SuperSQL",
"EngineType": "SparkSQL"
}
]
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.

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InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match. Currently, it only supports: 1: parentVersion; 2: childVersion; 3: pySpark.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ImageVersionNotActivity	The specified cluster image is not activated.

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DescribeSubUserAccessPolicy

Last updated：2024-08-08 15:32:18

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the sub-user's visiting policy for users accessing through the third-party platform.

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	Common Params. The value used for this API: DescribeSubUserAccessPolicy.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
PolicyDocument	String	Sub-user's visiting policy

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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 Instance One

This example shows you how to query the sub-user policy.

Input Example

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

{}
```

Output Example

```
{
"Response": {
"PolicyDocument": "{\"statement\":[{\"action\":[\"cos:*\"],\"effect\":\"allow
\",\"resource\":[\"qcs::cos:ap-beijing:uid/123456:test_bucket/*\",\"qcs::cos:ap-b
eijing:uid/123456:test_bucket/*\",\"qcs::cos:ap-beijing:uid/123456:test_bucket/*
\"]}],\"version\":\"2.0\"}",
"RequestId": "799cd718-d0da-4f7c-a0c1-104205dc6d8f"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.

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DescribeThirdPartyAccessUser

Last updated：2024-08-08 15:32:17

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the information of users visiting through the third-party platform.

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	Common Params. The value used for this API: DescribeThirdPartyAccessUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
UserInfo	OpendThirdAccessUserInfo	User information

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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 Instance One

This example shows you how to query the information about registered third-party access users.

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "584515f3-835f-459d-b93b-d6c6f64c0daa",
"UserInfo": {
"AppId": "123456",
"CreateTime": "2024-05-22T09:49:56+08:00",
"Id": 5,
"Uin": "123456"
}
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.

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RegisterThirdPartyAccessUser

Last updated：2024-08-08 15:32:16

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to enable visits to the third-party platform.

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	Common Params. The value used for this API: RegisterThirdPartyAccessUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

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

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		RequestId). RequestId is required for locating a problem.

4. Example

Example1 Example One

This example shows you how to register as a visitor.

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "346d80be-643f-4980-ad5d-d59f419a120e"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.

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RestartDataEngine

Last updated：2024-08-08 15:32:15

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to restart engines.

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	Common Params. The value used for this API: RestartDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	Engine ID
ForcedOperation	No	Boolean	Whether to restart by force and ignore tasks

3. Output Parameters

Parameter	Type	Description

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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 Restarting a Cluster

This example shows you how to restart a cluster.

Input Example

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

{
"DataEngineId": "abc",
"ForcedOperation": true
}
```

Output Example

```
{
"Response": {
"RequestId": "abc"
}
}
```

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	The operation failed.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the engine.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotRunning	The specified engine is not running.
ResourceNotFound.DefaultDataEngineNotFound	No default engine can be found.

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UpdateUserDataEngineConfig

Last updated：2024-08-08 15:32:12

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to modify the custom configuration of the user's engine.

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	Common Params. The value used for this API: UpdateUserDataEngineConfig.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	Engine ID
DataEngineConfigPairs.N	No	Array of DataEngineConfigPair	Collection of user-defined engine configuration items. This parameter needs to input all the configuration items users should add. For example, if there is a configuration item named k1:v1 while k2:v2

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			needs to be added, [k1:v1,k2:v2] should be passed.
SessionResourceTemplate	No	SessionResourceTemplate	Template of the resource configuration of the job engine

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 Modifing User Cluster Custom Configuration

This example shows you how to modify user cluster custom configuration.

Input Example

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

{
"DataEngineId": "abc",
"DataEngineConfigPairs": [
{
"ConfigItem": "abc",
"ConfigValue": "abc"
}
],
"SessionResourceTemplate": {
"DriverSize": "abc",
"ExecutorSize": "abc",
"ExecutorNums": 1,
"ExecutorMaxNumbers": 1
```

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```
}
}
```

Output Example

```
{
"Response": {
"RequestId": "asdfwdsf"
}
}
```

5. Developer Resources

SDK

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- 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	The operation failed.
InternalError	An internal error occurred.

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InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.DataEngineConfigPairsDuplicate	The specified cluster parameter already exists
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageParameterSubmitMethodNotMatch	The specified cluster image ParameterSubmitMethod does not match. Currently, only User and BackGround are supported.
InvalidParameter.ImageParameterTypeNotMatch	The specified cluster image ParameterType does not match. Currently, it only supports 1: session; 2: common; 3: cluster.
InvalidParameter.InvalidDataEngineConfigPairs	The specified cluster parameters are invalid. Please verify and try again.
InvalidParameter.InvalidWhiteListKey	There is an error in getting an allowlist. Please try again or submit a ticket to contact us.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound.DataEngineConfigInstanceNotFound	The specified cluster configuration instance does not exist.
ResourceNotFound.DataEngineConfigInstanceNotUnique	The specified cluster configuration instance already exists.
ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotMultiVersion	The specified cluster is not a multi-version type and does not support this operation.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.DataEngineTypeOnlySupportBatch	The specified cluster is not a Spark batch job type and does not support this operation.
ResourceNotFound.DefaultDataEngineNotFound	No default engine can be found.

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ResourceNotFound.ImageSessionConfigNotFound	The specified cluster image Session configuration does not exist.
ResourceNotFound.ImageSessionConfigNotUnique	The specified cluster image Session configuration already exists.

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UpdateDataEngineConfig

Last updated：2024-08-08 15:32:13

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to trigger the modification of the engine configuration by the user through a certain operation.

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	Common Params. The value used for this API: UpdateDataEngineConfig.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineIds.N	Yes	Array of String	Engine ID
DataEngineConfigCommand	Yes	String	Commands of engine configuration. UpdateSparkSQLLakefsPath (updates the configuration of the native table) and UpdateSparkSQLResultPath (updates the configuration of the result path) are supported.
UseLakeFs	No	Boolean	Whether to use lakeFS as result storage

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CustomResultPath	No	String	User-defined result path

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 Updating the Result Bucket Configuration Information for the Specified Engine

This example shows you how to update the result bucket configuration information for the specified engine.

Input Example

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

{
"DataEngineIds": [
"DataEngine-xxx"
],
"DataEngineConfigCommand": "UpdateSparkSQLResultPath"
}
```

Output Example

```
{
"Response": {
"RequestId": "abc"
}
}
```

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5. Developer Resources

SDK

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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	The operation failed.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the engine.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.DataEngineExecTypeNotMatch	The parameter ExecType passing to the specified cluster is invalid. Currently, only SQL or BATCH is supported.
InvalidParameter.DataEnginePayModeTypeNotMatch	The specified cluster payment type does not match. Currently, it only supports 0: postpaid and 1: prepaid.

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InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound.DataEngineConfigInstanceNotFound	The specified cluster configuration instance does not exist.
ResourceNotFound.DataEngineConfigInstanceNotUnique	The specified cluster configuration instance already exists.
ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotMultiVersion	The specified cluster is not a multi-version type and does not support this operation.

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Permission Management APIs
AddUsersToWorkGroup

Last updated：2024-08-08 15:32:34

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to add users to working groups.

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	Common Params. The value used for this API: AddUsersToWorkGroup.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
AddInfo	Yes	UserIdSetOfWorkGroupId	Information about working groups and users to be operated

3. Output Parameters

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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 Adding Users to a Working Group

Input Example

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

{
"AddInfo": {
"WorkGroupId": 122,
"UserIds": [
"10003237654"
]
}
}
```

Output Example

```
{
"Response": {
"RequestId": "c8900a05-8939-4b47-a3ab-3f3e92e439b7"
}
}
```

5. Developer Resources

SDK

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- 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	An internal error occurred.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
InvalidParameter.InvalidUserName	The username is invalid.
UnauthorizedOperation.AddUsersToWorkgroup	Sub-users are not administrators and cannot add users to working groups.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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AttachUserPolicy

Last updated：2024-08-08 15:32:34

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to bind the authentication policy to the user.

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	Common Params. The value used for this API: AttachUserPolicy.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	Yes	String	User ID, which is the same as the sub-user UIN. The CreateUser API is needed to create a user at first. The DescribeUsers API can be used for viewing.
PolicySet.N	No	Array of Policy	Collection of authentication policies

3. Output Parameters

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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 Binding the Authentication Policy to Users

Input Example

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

{
"UserId": "1248065439",
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "1287310-badou889lodj-1231jk12"
}
}
```

5. Developer Resources

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SDK

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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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
FailedOperation.GrantPolicyFailed	Authorization failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidUserName	The username is invalid.
InvalidParameter.InvalidUserType	The user type is invalid.
ResourcesSoldOut.UnauthorizedGrantPolicy	There is no permission authorization policy.

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UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific permissions.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.
UnsupportedOperation.ModifyOwnerUnsupported	The root account cannot be modified.

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AttachWorkGroupPolicy

Last updated：2024-08-08 15:32:33

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to bind an authentication policy to a working group.

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	Common Params. The value used for this API: AttachWorkGroupPolicy.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
WorkGroupId	Yes	Integer	Working group IDs
PolicySet.N	No	Array of Policy	Collection of policies to be bound

3. Output Parameters

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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 Binding the Authentication Policy to the Working Group

Input Example

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

{
"WorkGroupId": 112,
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "0ebb0fdc-0cbd-4408-9f08-ee75a7d6d80f"
}
}
```

5. Developer Resources

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SDK

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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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
FailedOperation.GrantPolicyFailed	Authorization failed.
FailedOperation.RevokePolicyFailed	Canceling authorization failed.
InternalError	An internal error occurred.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific permissions.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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BindWorkGroupsToUser

Last updated：2024-08-08 15:32:32

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to bind working groups to users.

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	Common Params. The value used for this API: BindWorkGroupsToUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
AddInfo	Yes	WorkGroupIdSetOfUserId	Information about bound working groups and users

3. Output Parameters

Parameter Name	Type	Description

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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 Binding Working Groups to Users

Input Example

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

{
"AddInfo": {
"UserId": "10003237654",
"WorkGroupIds": [
112
]
}
}
```

Output Example

```
{
"Response": {
"RequestId": "27633f02-4b56-4963-91a4-7fabe4b82cba"
}
}
```

5. Developer Resources

SDK

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- 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	An internal error occurred.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
InvalidParameter.InvalidUserName	The username is invalid.
UnauthorizedOperation.BindWorkgroupsToUser	Sub-users are not administrators and cannot bind working groups to users.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.
UnsupportedOperation.ModifyOwnerUnsupported	The root account cannot be modified.

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CreateUser

Last updated：2024-08-08 15:32:32

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create users.

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	Common Params. The value used for this API: CreateUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	Yes	String	Sub-user UIN that needs to be granted permissions. It can be checked through the upper right corner of Tencent Cloud Console → Account Information → Account ID.
UserDescription	No	String	User description, which can make it easy to identify different users.
PolicySet.N	No	Array of Policy	Collections of permissions bound to users

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UserType	No	String	Types of users. ADMIN: administrators; COMMON: general users. When the type of user is administrator, the collections of permissions and bound working groups cannot be set. Administrators own all the permissions by default. If the parameter is not filled in, it will be COMMON by default.
WorkGroupIds.N	No	Array of Integer	Collection of IDs of working groups bound to users
UserAlias	No	String	User alias, and its characters are less than 50.

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 Creating a User

Input Example

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

{
"UserDescription": "Test User",
"UserAlias": "Testname",
"UserId": "1248065439",
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
```

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```
"Database": "DatabaseName"
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "1287310-badou889lodj-1231jk12"
}
}
```

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
FailedOperation	The operation failed.

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FailedOperation.GrantPolicyFailed	Authorization failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.DuplicateUserName	The username is duplicated.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidDescription	The description information is invalid.
InvalidParameter.InvalidUserAlias	The username is invalid.
InvalidParameter.InvalidUserName	The username is invalid.
InvalidParameter.InvalidUserType	The user type is invalid.
ResourcesSoldOut	The resource is sold out.
ResourcesSoldOut.UnauthorizedGrantPolicy	There is no permission authorization policy.
ResourcesSoldOut.UnauthorizedOperation	There is no permission to operate.
UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific permissions.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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CreateWorkGroup

Last updated：2024-08-08 15:32:31

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create working groups.

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	Common Params. The value used for this API: CreateWorkGroup.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
WorkGroupName	Yes	String	Working group name
WorkGroupDescription	No	String	Working group description
PolicySet.N	No	Array of Policy	Collections of authentication policies bound to working groups
UserIds.N	No	Array of String	Collection of IDs of users to be bound to working groups

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3. Output Parameters

Parameter Name	Type	Description
WorkGroupId	Integer	Working group ID which is globally unique
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 Working Groups

Input Example

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

{
"WorkGroupName": "Group1",
"WorkGroupDescription": "testGroup",
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
}
]
}
```

Output Example

```
{
"Response": {
"WorkGroupId": 1,
"RequestId": "1287310-badou889lodj-1231jk12"
```

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```
}
}
```

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.GrantPolicyFailed	Authorization failed.
InternalError	An internal error occurred.
InvalidParameter.DuplicateGroupName	The working group name is duplicated.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidDescription	The description information is invalid.
InvalidParameter.InvalidWorkGroupName	The working group name is invalid.
ResourcesSoldOut	The resource is sold out.

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ResourcesSoldOut.UnauthorizedGrantPolicy	There is no permission authorization policy.
ResourcesSoldOut.UnauthorizedOperation	There is no permission to operate.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.CreateWorkgroup	Sub-users are not administrators and cannot create working groups.
UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific permissions.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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DeleteUser

Last updated：2024-08-08 15:32:31

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete users.

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	Common Params. The value used for this API: DeleteUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserIds.N	Yes	Array of String	ID of the user to be deleted

3. Output Parameters

Parameter Name	Type	Description

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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 user

Input Example

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

{
"UserIds": [
"10003237654"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "1081f6e9-2687-4426-a4fc-8ea3c6d285eb"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go

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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	The operation failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.RevokePolicyFailed	Canceling authorization failed.
InternalError	An internal error occurred.
InvalidParameter.InvalidUserName	The username is invalid.
ResourcesSoldOut.UnauthorizedRevokePolicy	There is no permission to reclaim permissions.
UnauthorizedOperation.DeleteUser	Sub-users are not administrators and cannot delete users.
UnauthorizedOperation.RevokePolicy	Sub-users do not have the authority to revoke specific permissions.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.
UnsupportedOperation.ModifyOwnerUnsupported	The root account cannot be modified.

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DeleteUsersFromWorkGroup

Last updated：2024-08-08 15:32:30

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete users from working groups.

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	Common Params. The value used for this API: DeleteUsersFromWorkGroup.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
AddInfo	Yes	UserIdSetOfWorkGroupId	User information to be deleted

3. Output Parameters

Parameter Name	Type	Description

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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 a User from a Working Group

Input Example

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

{
"AddInfo": {
"WorkGroupId": 112,
"UserIds": [
"10003237654"
]
}
}
```

Output Example

```
{
"Response": {
"RequestId": "1fd1d314-00e1-421b-9838-6e6b6c9c5419"
}
}
```

5. Developer Resources

SDK

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- 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	An internal error occurred.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
UnauthorizedOperation.DeleteUsersFromWorkgroup	Sub-users are not administrators and cannot unbind users from working groups.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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DeleteWorkGroup

Last updated：2024-08-08 15:32:29

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete working groups.

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	Common Params. The value used for this API: DeleteWorkGroup.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
WorkGroupIds.N	Yes	Array of Integer	Collection of IDs of working groups to be deleted

3. Output Parameters

Parameter Name	Type	Description

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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 Working Groups

Input Example

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

{
"WorkGroupIds": [
112
]
}
```

Output Example

```
{
"Response": {
"RequestId": "ba481e7d-e3cc-437c-b2dc-94f431a3d106"
}
}
```

5. Developer Resources

SDK

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- 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.RevokePolicyFailed	Canceling authorization failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
UnauthorizedOperation.DeleteWorkgroup	Sub-users are not administrators and cannot delete working groups.
UnauthorizedOperation.RevokePolicy	Sub-users do not have the authority to revoke specific permissions.

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DescribeUserInfo

Last updated：2024-08-08 15:32:29

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to get detailed user information.

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	Common Params. The value used for this API: DescribeUserInfo.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	No	String	User ID
Type	No	String	Type of queried information. Group: working group; DataAuth: data permission; EngineAuth: engine permission
Filters.N	No	Array of Filter	Filter criteria that are queried When the type is Group, the fuzzy search is supported as the key is workgroup-name. When the type is DataAuth, the keys supported are:

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			policy-type: types of permissions; policy-source: data sources; data-name: fuzzy search of the database and table. When the type is EngineAuth, the keys supported are: policy-type: types of permissions; policy-source: data sources; engine-name: fuzzy search of the database and table.
SortBy	No	String	Sort fields. When the type is Group, the create-time and group-name are supported. When the type is DataAuth, create-time is supported. When the type is EngineAuth, create-time is supported.
Sorting	No	String	Sorting methods: desc means in order; asc means in reverse order; it is asc by default.
Limit	No	Integer	Quantity of returns. It is 20 by default, and the maximum value is 100.
Offset	No	Integer	Offset, which is 0 by default.

3. Output Parameters

Parameter Name	Type	Description
UserInfo	UserDetailInfo	Detailed user information 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.

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4. Example

Example1 Getting Detailed User Information

Input Example

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

{}
```

Output Example

```
{
"Response": {
"UserInfo": {
"UserId": "123108743",
"UserAlias": "testname",
"UserType": "ADMIN",
"UserDescription": "test",
"Type": "Group"
},
"RequestId": "1231sad-sadsd121-fvmkl23-f124"
}
}
```

5. Developer Resources

SDK

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- 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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidFilterKey	The filter condition is not supported.
InvalidParameter.InvalidInfoType	The requested message type is invalid.
InvalidParameter.InvalidSortByType	The sorting type is not supported.
InvalidParameter.InvalidUserName	The username is invalid.
InvalidParameter.InvalidUserType	The user type is invalid.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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DescribeUserRoles

Last updated：2024-08-08 15:32:28

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to enumerate user roles.

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	Common Params. The value used for this API: DescribeUserRoles.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Limit	Yes	Integer	The number limit of enumerated user roles.
Offset	Yes	Integer	The offset for starting enumeration.
Fuzzy	No	String	Fuzzy enumeration by arn.
SortBy	No	String	The field for sorting the returned results.
Sorting	No	String	The sorting order, descending or ascending, such as `desc` .

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of user roles meeting the enumeration conditions.
UserRoles	Array of UserRole	The user roles.
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 test

Input Example

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

{
"Limit": 0,
"Offset": 0,
"Fuzzy": "abc",
"SortBy": "abc",
"Sorting": "abc"
}
```

Output Example

```
{
"Response": {
"Total": 0,
"UserRoles": [
{
"RoleId": 0,
"AppId": "abc",
```

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```
"Uin": "abc",
"Arn": "abc",
"ModifyTime": 0,
"Desc": "abc",
"RoleName": "abc",
"Creator": "abc",
"CosPermissionList": [
{
"CosPath": "abc",
"Permissions": [
"abc"
]
}
],
"PermissionJson": "abc"
}
],
"RequestId": "abc"
}
}
```

Example2 Listing User Role Information

Input Example

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

{
"Fuzzy": "1",
"Limit": 0,
"Offset": 0
}
```

Output Example

```
{
"Response": {
"Total": 1,
"UserRoles": [
{
"RoleId": 0,
```

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```
"AppId": "1234",
"Uin": "1234",
"ModifyTime": 1650424290,
"Arn": "11",
"Desc": "test role"
}
],
"RequestId": "2ae4707a-9f72-44aa-9fd4-65cb739d6301"
}
}
```


5. Developer Resources

SDK

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- 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	The operation failed.

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DescribeUserType

Last updated：2024-08-08 15:32:28

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to get the types of users.

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	Common Params. The value used for this API: DescribeUserType.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	No	String	User ID (UIN). If it is not specified, it will be the sub-UIN of the caller by default.

3. Output Parameters

Parameter Name	Type	Description

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UserType	String	Types of users. ADMIN: administrators; COMMON: general users 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 Getting the User Type

Input Example

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

{}
```

Output Example

```
{
"Response": {
"UserType": "ADMIN",
"RequestId": "1312-j1jf1920fl023na9sa-vanc"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
ResourceNotFound	The resource does not exist.

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DescribeUsers

Last updated：2024-08-08 15:32:27

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the user list.

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	Common Params. The value used for this API: DescribeUsers.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	No	String	Specify the UIN of the sub-user to be queried. Users need to create it through the CreateUser API.
Offset	No	Integer	Offset, which is 0 by default.
Limit	No	Integer	Quantity of returns. It is 20 by default, and the maximum value is 100.
SortBy	No	String	Sorting fields, which support the following type: create-time
Sorting	No	String	Sorting methods: desc means in order; asc means in reverse order; it is asc by default.

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Filters.N	No	Array of Filter	Filter criteria. The following filter types are supported. User-type means the filtering is based on the types of users, and user-keyword means the filtering is based on the names of users.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total queried number of users queried
UserSet	Array of UserInfo	Collection of the queried information of the authorized user
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 the User List

Input Example

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

{
"Limit": 10,
"Sorting": "create-time",
"UserId": "1248065439",
"SortBy": "desc",
"Offset": 0
}
```

Output Example

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```
{
"Response": {
"TotalCount": 1,
"UserSet": [
{
"Creator": "1248065439",
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
}
],
"UserId": "1248065439",
"UserType": "ADMIN",
"UserAlias": "xxxname",
"IsOwner": true,
"UserDescription": "Test User",
"WorkGroupSet": [
{
"WorkGroupId": 0,
"WorkGroupName": "Group1",
"CreateTime": "2021-07-28 16:19:32",
"WorkGroupDescription": "test group",
"Creator": "1248065439"
}
],
"CreateTime": "2021-07-28 16:19:32"
}
],
"RequestId": "1287310-badou889lodj-1231jk12"
}
}
```


5. Developer Resources

SDK

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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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidOffset	The Offset value is invalid.
InvalidParameter.InvalidSortByType	The sorting type is not supported.

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DescribeWorkGroupInfo

Last updated：2024-08-08 15:32:27

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to get detailed information about working groups.

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	Common Params. The value used for this API: DescribeWorkGroupInfo.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
WorkGroupId	No	Integer	Working group IDs
Type	No	String	Types of queried information. User: user information; DataAuth: data permissions; EngineAuth: engine permissions
Filters.N	No	Array of Filter	Filter criteria that are queried When the type is User, the fuzzy search is supported as the key is user-name.

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			When the type is DataAuth, the keys supported are: policy-type: types of permissions; policy-source: data sources; data-name: fuzzy search of the database and table. When the type is EngineAuth, the keys supported are: policy-type: types of permissions; policy-source: data sources; engine-name: fuzzy search of the database and table.
SortBy	No	String	Sort fields. When the type is User, create-time and user-name are supported. When the type is DataAuth, create-time is supported. When the type is EngineAuth, create-time is supported.
Sorting	No	String	Sorting methods: desc means in order; asc means in reverse order; it is asc by default.
Limit	No	Integer	Quantity of returns. It is 20 by default, and the maximum value is 100.
Offset	No	Integer	Offset, which is 0 by default.

3. Output Parameters

Parameter Name	Type	Description
WorkGroupInfo	WorkGroupDetailInfo	Details about working groups 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.

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4. Example

Example1 Getting Workgroup Details

Input Example

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

{}
```

Output Example

```
{
"Response": {
"WorkGroupInfo": {
"WorkGroupId": 12,
"WorkGroupName": "testGroup",
"Type": "User"
},
"RequestId": "gsdf-213kjs9sf-f11fafsaf-12e1k"
}
}
```

5. Developer Resources

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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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidFilterKey	The filter condition is not supported.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
InvalidParameter.InvalidInfoType	The requested message type is invalid.
InvalidParameter.InvalidSortByType	The sorting type is not supported.

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DescribeWorkGroups

Last updated：2024-08-08 15:32:26

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to get a list of working groups.

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	Common Params. The value used for this API: DescribeWorkGroups.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
WorkGroupId	No	Integer	IDs of working groups that are queried. If it is not filled in or is 0, this means no need for filtering.
Filters.N	No	Array of Filter	Filter criteria. Only the fuzzy search according to working group names is supported. The key is workgroup-name.
Offset	No	Integer	Offset, which is 0 by default.
Limit	No	Integer	Quantity of returns. It is 20 by default, and the maximum value is 100.

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SortBy	No	String	Sorting fields, which support the following type: create-time
Sorting	No	String	Sorting methods; desc means in order; asc means in reverse order; it is asc by default.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The total number of working groups
WorkGroupSet	Array of WorkGroupInfo	Collection of working group information
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 a List of Working Groups

Input Example

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

{
"Sorting": "desc",
"WorkGroupId": 1,
"Limit": 0,
"SortBy": "create-time",
"Filters": [
{
"Values": [
"workgroup-name"
],
```

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```
"Name": "Group1"
}
],
"Offset": 0
}
```

Output Example

```
{
"Response": {
"WorkGroupSet": [
{
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
}
],
"WorkGroupId": 1,
"Creator": "1248065439",
"UserNum": 1,
"WorkGroupDescription": "test group",
"WorkGroupName": "Group1",
"UserSet": [
{
"UserDescription": "test user",
"UserAlias": "testname",
"UserId": "1248065439",
"CreateTime": "2021-07-28 16:19:32",
"Creator": "1248065439"
}
],
"CreateTime": "2021-07-28 16:19:32"
}
],
"TotalCount": 1,
"RequestId": "1287310-badou889lodj-1231jk12"
}
}
```

5. Developer Resources

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Command Line Interface

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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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidFilterKey	The filter condition is not supported.
InvalidParameter.InvalidOffset	The Offset value is invalid.
InvalidParameter.InvalidSortByType	The sorting type is not supported.
InvalidParameter.InvalidSorting	Invalid Sorting

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DetachUserPolicy

Last updated：2024-08-08 15:32:26

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to unbind the authentication policy from the user.

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	Common Params. The value used for this API: DetachUserPolicy.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	Yes	String	User ID, which matches Uin on the CAM side.
PolicySet.N	No	Array of Policy	Collection of unbound permissions

3. Output Parameters

Parameter	Type	Description

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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 Unbinding User Authentication Policy

Input Example

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

{
"UserId": "1248065439",
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "79a91d1b-c00d-4b4f-b1da-0fbf339efa9a"
}
}
```

5. Developer Resources

SDK

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- 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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
FailedOperation.GrantPolicyFailed	Authorization failed.
FailedOperation.RevokePolicyFailed	Canceling authorization failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidUserName	The username is invalid.
UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific permissions.

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UnauthorizedOperation.ProhibitedOperationAdmin	Prohibited operation admin
UnauthorizedOperation.RevokePolicy	Sub-users do not have the authority to revoke specific permissions.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.
UnsupportedOperation.ModifyOwnerUnsupported	The root account cannot be modified.

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DetachWorkGroupPolicy

Last updated：2024-08-08 15:32:25

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to unbind the authentication policy from the working group.

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	Common Params. The value used for this API: DetachWorkGroupPolicy.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
WorkGroupId	Yes	Integer	Working group ID
PolicySet.N	No	Array of Policy	Collection of unbound permissions

3. Output Parameters

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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 Unbinding the Authentication Policy from the Working Group

Input Example

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

{
"WorkGroupId": 112,
"PolicySet": [
{
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "94899a6b-a3e0-4d61-ad83-b51cb2473305"
}
}
```

5. Developer Resources

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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.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
FailedOperation.GrantPolicyFailed	Authorization failed.
FailedOperation.RevokePolicyFailed	Canceling authorization failed.
InternalError	An internal error occurred.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific permissions.
UnauthorizedOperation.RevokePolicy	Sub-users do not have the authority to revoke specific permissions.

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ModifyUser

Last updated：2024-08-08 15:32:24

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to modify user information.

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	Common Params. The value used for this API: ModifyUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	Yes	String	User ID which matches UIN on the CAM side
UserDescription	Yes	String	User description

3. Output Parameters

Parameter Name	Type	Description

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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 User Information

Input Example

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

{
"UserDescription": "my-test-user",
"UserId": "10003237654"
}
```

Output Example

```
{
"Response": {
"RequestId": "89d31413-a210-4553-8fdc-d2d17a1e2138"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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	An internal error occurred.
ResourcesSoldOut.UnauthorizedOperation	There is no permission to operate.
UnauthorizedOperation.ModifyUserInfo	Sub-users are not administrators and cannot modify user information.
UnsupportedOperation.ModifyOwnerUnsupported	The root account cannot be modified.

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ModifyUserType

Last updated：2024-08-08 15:32:24

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to modify the types of users. Only users who are also administrators can call this API to conduct the operation.

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	Common Params. The value used for this API: ModifyUserType.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
UserId	Yes	String	User ID
UserType	Yes	String	Types that users modify. ADMIN: administrators; COMMON: general users.

3. Output Parameters

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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 User Types

Input Example

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

{
"UserType": "xx",
"UserId": "xx"
}
```

Output Example

```
{
"Response": {
"RequestId": "ks1141-dasd8ca1-acds81fa"
}
}
```

5. Developer Resources

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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.GetUserInfoFailed	Obtaining user information failed. Please try again or submit a ticket to contact us.
FailedOperation.GrantPolicyFailed	Authorization failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidUserName	The username is invalid.
InvalidParameter.InvalidUserType	The user type is invalid.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific permissions.
UnauthorizedOperation.ModifyUserType	Sub-users are not administrators and cannot modify user types.
UnauthorizedOperation.RevokePolicy	Sub-users do not have the authority to revoke specific permissions.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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UnsupportedOperation.ModifyOwnerUnsupported	The root account cannot be modified.

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ModifyWorkGroup

Last updated：2024-08-08 15:32:23

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to modify working group information.

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	Common Params. The value used for this API: ModifyWorkGroup.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
WorkGroupId	Yes	Integer	Working group IDs
WorkGroupDescription	Yes	String	Working group description, and the upper limit of the number of its characters is 50.

3. Output Parameters

Parameter	Type	Description

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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 Modifying Workgroup Information

This example shows you how to modify workgroup information.

Input Example

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

{
"WorkGroupId": 112,
"WorkGroupDescription": "my-test-2"
}
```

Output Example

```
{
"Response": {
"RequestId": "6fd5c288-cfa1-4c7b-9229-7780d0a3e96f"
}
}
```

5. Developer Resources

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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	An internal error occurred.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
UnauthorizedOperation.ModifyWorkgroupInfo	Sub-users are not administrators and cannot modify working group information.

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UnbindWorkGroupsFromUser

Last updated：2024-08-08 15:32:23

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to unbind a user group from a user.

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	Common Params. The value used for this API: UnbindWorkGroupsFromUser.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
AddInfo	Yes	WorkGroupIdSetOfUserId	Association between the IDs of unbound working groups and user IDs

3. Output Parameters

Parameter	Type	Description

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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 Unbinding User Groups from a User

Input Example

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

{
"AddInfo": {
"UserId": "1000323",
"WorkGroupIds": [
112
]
}
}
```

Output Example

```
{
"Response": {
"RequestId": "edb8ceac-68c9-4acf-9a38-ea26abc61dfc"
}
}
```

5. Developer Resources

SDK

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- 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	An internal error occurred.
InvalidParameter.DuplicateUserName	The username is duplicated.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
UnauthorizedOperation.UnbindWorkgroupsFromUser	Sub-users are not administrators and cannot unbind working groups and users.
UnauthorizedOperation.UserNotExist	The sub-user does not exist.

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UpdateRowFilter

Last updated：2024-08-08 15:32:22

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to update row filters. Please note that it updates filters only but not catalogs, databases, or tables.

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	Common Params. The value used for this API: UpdateRowFilter.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
PolicyId	Yes	Integer	The ID of the row filter policy, which can be obtained using the `DescribeUserInfo` or `DescribeWorkGroupInfo` API.
Policy	Yes	Policy	The new filter policy.

3. Output Parameters

Parameter	Type	Description

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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 Updating the row filter policy

Input Example

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

{
"Policy": {
"Table": "TableName",
"Catalog": "COSDataCatalog",
"Operation": "ALL",
"Database": "DatabaseName"
},
"PolicyId": 0
}
```

Output Example

```
{
"Response": {
"RequestId": "1287310-badou889lodj-1231jk12"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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CheckGrantedPermission

Last updated：2024-08-21 19:10:26

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to check the permission 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	Common Params. The value used for this API: CheckGrantedPermission.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
CheckPermission.N	No	Array of CheckPermission	Permission check

3. Output Parameters

Parameter Name	Type	Description

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PermissionResponses	Array of PermissionResponseInfo	Permission 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 Checking the Permission Status

Input Example

```
POST / HTTP/1.1
Host: dlc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CheckGrantedPermission

{
"CheckPermission": [
{
"AccessType": "abc",
"ResourceBaseInfo": {
"Catalog": "abc",
"Schema": "abc",
"Table": "abc",
"View": "abc"
}
}
]
}
```

Output Example

```
{
"Response": {
"PermissionResponses": [
{
"AccessType": "abc",
"ResourceBaseInfo": {
"Catalog": "abc",
"Schema": "abc",
```

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```
"Table": "abc",
"View": "abc",
"Database": "abc",
"Function": "abc"
},
"Allowed": true
}
],
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.

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ResourceNotFound	The resource does not exist.

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Database APIs
ModifyAdvancedStoreLocation

Last updated：2024-08-08 15:32:41

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to modify the advanced settings of the SQL query interface.

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	Common Params. The value used for this API: ModifyAdvancedStoreLocation.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
StoreLocation	Yes	String	COS path for saving querying results
Enable	Yes	Integer	Whether to enable advanced settings. 0 means no while 1 means yes.

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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 Advanced Settings

Input Example

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

{
"StoreLocation": "",
"Enable": 0
}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
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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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidStoreLocation	The storage location is incorrect.

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ModifyGovernEventRule

Last updated：2024-08-08 15:32:41

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to change data governance event thresholds.

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	Common Params. The value used for this API: ModifyGovernEventRule.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

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

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		RequestId). RequestId is required for locating a problem.

4. Example

Example1 Example 1

Input Example

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

{}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.DBError	A database error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.
LimitExceeded	The quota limit is reached.
OperationDenied	Operation denied.
ResourceNotFound	The resource does not exist.
UnknownParameter	Unknown parameter error.

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DescribeAdvancedStoreLocation

Last updated：2024-08-08 15:32:42

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the advanced settings of the SQL query interface.

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	Common Params. The value used for this API: DescribeAdvancedStoreLocation.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
Enable	Integer	Whether to enable advanced settings. 0 means no while 1 means yes.

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StoreLocation	String	COS path of saving querying results
HasLakeFs	Boolean	Whether there is permission for managed storage
LakeFsStatus	String	Managed storage status. The value is meaningful only when HasLakeFs is equal to true. 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 Querying Advanced Settings

Input Example

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

{}
```

Output Example

```
{
"Response": {
"StoreLocation": "xx",
"HasLakeFs": false,
"Enable": 1,
"LakeFsStatus": "xx",
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InvalidParameter	The parameter is incorrect.
MissingParameter	Missing parameters.

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Data Source Connection APIs CheckDataEngineImageCanBeRollback

Last updated：2024-08-08 15:32:46

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to check whether the cluster can be rolled back.

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	Common Params. The value used for this API: CheckDataEngineImageCanBeRollback.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	Unique engine ID

3. Output Parameters

Parameter	Type	Description

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Name		
ToRecordId	String	Log record ID after rolling back
FromRecordId	String	Log record ID before rolling back
IsRollback	Boolean	Whether it can be rolled back
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 Checking Whether the Cluster Can Be Rolled Back

Input Example

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

{
"DataEngineId": "DataEngine-1"
}
```

Output Example

```
{
"Response": {
"FromRecordId": "d3018ad4-9a7e-4f64-a3f4-f38507c69742",
"ToRecordId": "89570c65-49de-4bbd-ac0a-a67c724fc80f",
"IsRollback": true,
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1"
}
}
```

5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or sub contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.DataEngineImageOperateNotMatch	The specified cluster image operation does not match. Cu InitImage/UpgradeImage/SwitchImage/RollbackImage/M is supported.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only s public and 2: private.
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only supp initializing, 2: online, 3: offline.

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InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match only supports: 1: parentVersion; 2: childVersion; 3: pySpa
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.ImageVersionNotActivity	The specified cluster image is not activated.
ResourceNotFound.ImageVersionNotUnique	The specified cluster image version already exists.

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CheckDataEngineImageCanBeUpgrade

Last updated：2024-08-08 15:32:46

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to check whether the cluster image can be upgraded.

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	Common Params. The value used for this API: CheckDataEngineImageCanBeUpgrade.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
ChildImageVersionId	String	ID of the minor version of the cluster image that can be updated under the

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		major version
IsUpgrade	Boolean	Whether it can be updated
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 Checking Whether the Cluster Image Can Be Upgraded

Input Example

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

{
"DataEngineId": "DataEngine-1"
}
```

Output Example

```
{
"Response": {
"ChildImageVersionId": "d3ftghd4-9a7e-4f64-a3f4-f38507c69742",
"IsUpgrade": true,
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only supports 1: initializing, 2: online, 3: offline.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match. Currently, it only supports: 1: parentVersion; 2: childVersion; 3: pySpark.
InvalidParameter.InvalidSQL	SQL parsing failed.

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InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.ImageVersionNotFound	The specified cluster image version does not exist.

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DescribeDataEnginePythonSparkImages

Last updated：2024-08-08 15:32:45

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain the PYSPARK image list.

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	Common Params. The value used for this API: DescribeDataEnginePythonSparkImages.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
ChildImageVersionId	Yes	String	ID of the minor version of the cluster image

3. Output Parameters

Parameter Name	Type	Description
PythonSparkImages	Array of PythonSparkImage	PYSPARK image information list

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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 PYSPARK Image List

This API is used to get the PYSPARK image list.

Input Example

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

{
"ChildImageVersionId": "abc"
}
```

Output Example

```
{
"Response": {
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1",
"PythonSparkImages": [
{
"UpdateTime": "2020-01-01:00:00:00",
"Description": "Test",
"ChildImageVersionId": "d3ksjed4-9a7e-4f64-a3f4-f38507c69742",
"SparkImageId": "d3018ad4-9a7e-4f64-a3f4-f38507c69742",
"SparkImageVersion": "Test Image",
"CreateTime": "2020-01-01:00:00:00"
}
]
}
}
```

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5. Developer Resources

SDK

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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	The operation failed.
InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match. Currently, it only supports: 1: parentVersion; 2: childVersion; 3: pySpark.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound	The resource does not exist.

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Data Optimization APIs
GetOptimizerPolicy

Last updated：2024-08-21 19:10:11

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

GetOptimizerPolicy

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	Common Params. The value used for this API: GetOptimizerPolicy.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SmartPolicy	Yes	SmartPolicy	Policy description

3. Output Parameters

Parameter Name	Type	Description

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SmartOptimizerPolicy	SmartOptimizerPolicy	Smart optimization policy
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 test

Input Example

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

{
"SmartPolicy": {
"BaseInfo": {
"Uin": "abc",
"PolicyType": "abc",
"Catalog": "abc",
"Database": "abc",
"Table": "abc",
"AppId": "abc"
},
"Policy": {
"Inherit": "abc",
"Resources": [
{
"AttributionType": "abc",
"ResourceType": "abc",
"Name": "abc",
"Instance": "abc",
"Favor": [
{
"Priority": 0,
"Catalog": "abc",
"DataBase": "abc",
"Table": "abc"
}
```

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```
],
"Status": 0
}
],
"Written": {
"WrittenEnable": "abc"
},
"Lifecycle": {
"LifecycleEnable": "abc",
"Expiration": 0,
"DropTable": true
},
"Index": {
"IndexEnable": "abc"
}
}
}
}
```


Output Example


```
{
"Response": {
"SmartOptimizerPolicy": {
"Inherit": "abc",
"Resources": [
{
"AttributionType": "abc",
"ResourceType": "abc",
"Name": "abc",
"Instance": "abc",
"Favor": [
{
"Priority": 0,
"Catalog": "abc",
"DataBase": "abc",
"Table": "abc"
}
],
"Status": 0
}
],
"Written": {
"WrittenEnable": "abc"
},
"Lifecycle": {
```


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```
"LifecycleEnable": "abc",
"Expiration": 0,
"DropTable": true
},
"Index": {
"IndexEnable": "abc"
}
},
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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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
ResourceNotFound	The resource does not exist.

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Data Engine APIs
CreateDataEngine

Last updated：2024-08-08 15:32:57

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to create a data engine.

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	Common Params. The value used for this API: CreateDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
EngineType	Yes	String	The engine type. Valid

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			values: `spark` and `presto`.
DataEngineName	Yes	String	The name of the virtual cluster.
ClusterType	Yes	String	The cluster type. Valid values: `spark_private`, `presto_private`, `presto_cu`, and `spark_cu`.
Mode	Yes	Integer	The billing mode. Valid values: `0` (shared engine), `1` (pay-as-you-go), and `2` (monthly subscription).
AutoResume	Yes	Boolean	Whether to automatically start the clusters.
MinClusters	No	Integer	The minimum number of clusters.
MaxClusters	No	Integer	The maximum number of clusters.
CidrBlock	No	String	The VPC CIDR block.
Message	No	String	The description.
Size	No	Integer	The cluster size.
PayMode	No	Integer	The pay mode. Valid value: `0` (postpaid, default) and `1` (prepaid) (currently not available).
TimeSpan	No	Integer	The usage duration of the resource. Postpaid: Fill in 3,600 as a fixed figure; prepaid: fill in a figure equal to or bigger than

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			1 which means purchasing resources for one month. The maximum figure is not bigger than 120. The default value is 1.
TimeUnit	No	String	The unit of the resource period. Valid values: `s` (default) for the postpaid mode and `m` for the prepaid mode.
AutoRenew	No	Integer	The auto-renewal status of the resource. For the postpaid mode, no renewal is required, and the value is fixed to `0`. For the prepaid mode, valid values are `0` (manual), `1` (auto), and `2` (no renewal). If this parameter is set to `0` for a key account in the prepaid mode, auto-renewal applies. It defaults to `0`.
Tags.N	No	Array of TagInfo	The tags to be set for the resource being created.
AutoSuspend	No	Boolean	Whether to automatically suspend clusters. Valid values: `false` (default, no) and `true` (yes).
CrontabResumeSuspend	No	Integer	Whether to enable scheduled start and suspension of clusters. Valid values: `0` (disable) and `1`

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			(enable). Note: This policy and the auto-suspension policy are mutually exclusive.
CrontabResumeSuspendStrategy	No	CrontabResumeSuspendStrategy	The complex policy for scheduled start and suspension, including the start/suspension time and suspension policy.
EngineExecType	No	String	The type of tasks to be executed by the engine, which defaults to SQL. Valid values: `SQL` and `BATCH` .
MaxConcurrency	No	Integer	The max task concurrency of a cluster, which defaults to 5.
TolerableQueueTime	No	Integer	The task queue time limit, which defaults to 0. When the actual queue time exceeds the value set here, scale-out may be triggered. Setting this parameter to 0 represents that scale-out may be triggered immediately after a task queues up.
AutoSuspendTime	No	Integer	The cluster auto-suspension time, which defaults to 10 min.
ResourceType	No	String	The resource type. Valid values: `Standard_CU` (standard) and

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			`Memory_CU` (memory).
DataEngineConfigPairs.N	No	Array of DataEngineConfigPair	The advanced configurations of clusters.
ImageVersionName	No	String	The version name of cluster image, such as SuperSQL-P 1.1 and SuperSQL-S 3.2. If no value is passed in, a cluster is created using the latest image version.
MainClusterName	No	String	The primary cluster, which is specified when a failover cluster is created.
ElasticSwitch	No	Boolean	Whether to enable the scaling feature for a monthly subscribed Spark job cluster.
ElasticLimit	No	Integer	The upper limit (in CUs) for scaling of the monthly subscribed Spark job cluster.
SessionResourceTemplate	No	SessionResourceTemplate	The session resource configuration template for a Spark job cluster.
AutoAuthorization	No	Boolean	Automatically grant permissions
EngineNetworkId	No	String	Engine network ID
EngineGeneration	No	String	Generation of the engine. SuperSQL means the supersql engine while Native means the standard engine. It is SuperSQL by default.

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3. Output Parameters

Parameter Name	Type	Description
DataEngineId	String	The ID of the virtual engine.
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 data engine

This example shows you how to create a data engine.

Input Example

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

{
"EngineType": "spark",
"DataEngineName": "test",
"ClusterType": "spark",
"MinClusters": 0,
"MaxClusters": 0,
"DefaultDataEngine": true,
"CidrBlock": "10.255.255.0/16",
"Mode": 0,
"Message": "test",
"AutoResume": true,
"Size": 0,
"PayMode": 0,
"TimeSpan": 1,
"TimeUnit": "h",
"AutoRenew": 0,
"Tags": [
{
"TagKey": "key",
```

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```
"TagValue": "value"
}
],
"AutoSuspend": true,
"CrontabResumeSuspend": 0,
"CrontabResumeSuspendStrategy": {
"ResumeTime": "10",
"SuspendTime": "10",
"SuspendStrategy": 0
},
"EngineExecType": "BATCH",
"MaxConcurrency": 0,
"TolerableQueueTime": 0,
"AutoSuspendTime": 0,
"ResourceType": "standard_cu",
"ImageVersionName": "SuperSQL-P 1.1"
}
```

Output Example

```
{
"Response": {
"DataEngineId": "DataEngine-abc123",
"RequestId": "sd01m2-fasfki-231safas"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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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++

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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.AbnormalOrderStatus	Order status exception.
FailedOperation.AnotherCreateProcessRunning	Another data source is being created.
FailedOperation.AnotherProcessRunning	Another operation is in progress. Please try again later.
FailedOperation.AnotherRequestProcessing	Another request is being processed. Try again later.
FailedOperation.BalanceNotEnough	Insufficient account balance.
FailedOperation.BillingSystemError	Billing system exception.
FailedOperation.BindTooManyTags	The number of tags set reached the limit.
FailedOperation.CreateDataEngineFailed	Failed to create the engine.
FailedOperation.DeliverGoodsFailed	Failed to deliver the goods.
FailedOperation.DuplicateTagKey	Duplicate tag keys.
FailedOperation.FeeDeductionFailed	Deduction failed.
FailedOperation.GetProductInformationFailed	Failed to get product information.
FailedOperation.IllegalResource	Invalid resources.
FailedOperation.IllegalTagKey	Invalid characters in the tag key.
FailedOperation.IllegalTagValue	Invalid characters in the tag value.
FailedOperation.InquirePriceFailed	Price query failed.
FailedOperation.ModifyInstanceFailed	Failed to scale up/down the instance.
FailedOperation.NoPermission	No permission.

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FailedOperation.NoRealNameAuthentication	Unverified account.
FailedOperation.NumberExceedLimit	Reached the allowed limit of engines.
FailedOperation.ParameterValidationFailed	Failed to verify parameters.
FailedOperation.RefundDepositFailed	Refunding failed.
FailedOperation.TagAlreadyAttached	A tag key of the same name has been set for the resource.
FailedOperation.TagKeyTooLong	The tag key exceeded the length limit.
FailedOperation.TagNotExist	The tag does not exist.
FailedOperation.TagValueTooLong	The tag value exceeded the length limit.
FailedOperation.TooManyResources	The number of resources reached the limit.
FailedOperation.TooManyTags	The number of tags reached the limit.
InternalError	An internal error occurred.
InternalError.DBError	A database error occurred.
InvalidParameter.DataEngineModeNotMatch	The specified cluster billing mode does not match. Currently, it only supports 1: pay-as-you-go and 2: annual and monthly subscriptions.
InvalidParameter.DataEngineSizeNotMatch	The specified cluster specifications are not compliant.
InvalidParameter.DuplicateDataEngineName	Duplicate engine name.
InvalidParameter.ImageParameterNotFound	The specified cluster image parameter does not exist.
InvalidParameter.InvalidDataEngineCidrFormat	The specified cluster CIDR format does not match, and the reference style is 192.0.2.1/24.
InvalidParameter.InvalidDataEngineMode	Invalid data engine mode.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
InvalidParameter.InvalidDataEngineSpecs	Invalid data engine spec.
InvalidParameter.InvalidDataEngineTimeSpan	The usage duration of the specified cluster resource: Postpaid: Fill in 3,600 as a fixed figure; prepaid: Fill in a figure equal to or bigger than 1 which means purchasing resources for one month. The maximum figure is no more than 120. The default is 3,600.

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InvalidParameter.InvalidDataEngineTimeUnit	The unit of the usage duration of the specified cluster resource does not match; postpaid: h; prepaid: m. The default is h.
InvalidParameter.InvalidEngineType	The engine type is invalid.
InvalidParameter.InvalidPayMode	Invalid billing mode.
InvalidParameter.InvalidTimeSpan	Invalid billing period.
InvalidParameter.InvalidTimeUnit	Invalid unit of billing period.
InvalidParameter.VpcCidrFormatError	Invalid VPC CIDR format.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
UnauthorizedOperation.NoPaymentAuthority	No permission to pay.

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DescribeDataEnginesScaleDetail

Last updated：2024-08-08 15:32:54

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query engine specification 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	Common Params. The value used for this API: DescribeDataEnginesScaleDetail.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineNames.N	No	Array of String	Engine name list
StartTime	No	String	Start time, and the format is yyyy-MM-dd HH:mm:ss. It can query the records within one month at most.
EndTime	No	String	End time, and the format is yyyy-MM-dd HH:mm:ss. It can query the records within one month at most.

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3. Output Parameters

Parameter Name	Type	Description
Scales	Array of DataEngineScaleInfo	Details about the statistics of engine specifications 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 Querying Engine Specification Details

Input Example

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

{
"StartTime": "2024-06-06 12:00:00",
"EndTime": "2024-06-06 13:00:00",
"DataEngineNames": [
"dataengine-abc"
]
}
```

Output Example

```
{
"Response": {
"Scales": [
{
"DataEngineId": "abc",
"DataEngineName": "abc",
"ScaleDetail": [
```

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```
{
"StartTime": "abc",
"EndTime": "abc",
"CU": 0
}
]
}
],
"RequestId": "abc"
}
}
```


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
UnauthorizedOperation.MonitorComputingEngine	Sub-users do not have the permission to view engine monitoring.

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DeleteDataEngine

Last updated：2024-08-08 15:32:56

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to delete the data engine.

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	Common Params. The value used for this API: DeleteDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineNames.N	Yes	Array of String	Delete the name array of virtual clusters.

3. Output Parameters

Parameter Name	Type	Description

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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 test

Input Example

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

{
"DataEngineNames": [
"xx"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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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.AbnormalOrderStatus	Order status exception.
FailedOperation.AnotherProcessRunning	Another operation is in progress. Please try again later.
FailedOperation.AnotherRequestProcessing	Another request is being processed. Try again later.
FailedOperation.BalanceNotEnough	Insufficient account balance.
FailedOperation.BillingSystemError	Billing system exception.
FailedOperation.DeleteDataEngineFailed	The deletion of the data engine failed.
FailedOperation.DeliverGoodsFailed	Failed to deliver the goods.
FailedOperation.FeeDeductionFailed	Deduction failed.
FailedOperation.GetProductInformationFailed	Failed to get product information.
FailedOperation.InquirePriceFailed	Price query failed.
FailedOperation.ModifyInstanceFailed	Failed to scale up/down the instance.
FailedOperation.NoRealNameAuthentication	Unverified account.
FailedOperation.NumberExceedLimit	Reached the allowed limit of engines.
FailedOperation.ParameterValidationFailed	Failed to verify parameters.
FailedOperation.RefundDepositFailed	Refunding failed.
FailedOperation.TooManyResources	The number of resources reached the limit.

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InternalError	An internal error occurred.
InvalidParameter.InstanceInProcess	Instances are in other processes.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
UnauthorizedOperation.DeleteComputingEngine	Sub-users cannot delete a computing engine.
UnauthorizedOperation.NoPaymentAuthority	No permission to pay.

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RenewDataEngine

Last updated：2024-08-08 15:32:51

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to renew the data engine.

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	Common Params. The value used for this API: RenewDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineName	Yes	String	CU queue name
TimeSpan	Yes	Integer	Renewal period in months, which is at least one month.
PayMode	No	Integer	Payment type. It is 1 by default and is prepaid.
TimeUnit	No	String	Unit. It is m by default, and only m can be filled in.
RenewFlag	No	Integer	Auto-renewal flag: 0 means the initial status, and there is no automatic renewal by default. If the user has the privilege to retain services with prepayment, there will be an automatic renewal. 1

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			means that there is an automatic renewal. 2 means that there is surely no automatic renewal. If it is not specified, the parameter is 0 by default.

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 Renewing the Data Engine

This example shows you how to renew the data engine.

Input Example

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

{
"PayMode": 0,
"TimeUnit": "m",
"DataEngineName": "test_house",
"TimeSpan": 1
}
```

Output Example

```
{
"Response": {
"RequestId": "1ESASFA-121DSAD"
}
}
```

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5. Developer Resources

SDK

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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
InvalidParameter.InstanceInProcess	Instances are in other processes.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
UnauthorizedOperation.RenewComputingEngine	Sub-users have no authority to renew the computing engine.

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SuspendResumeDataEngine

Last updated：2024-08-08 15:32:50

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to suspend or start a data engine.

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	Common Params. The value used for this API: SuspendResumeDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineName	Yes	String	The name of a virtual cluster.
Operate	Yes	String	The operation type: `suspend` or `resume` .

3. Output Parameters

Parameter Name	Type	Description

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DataEngineName	String	The details of the virtual cluster.
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 Suspending or starting a data engine

This example shows you how to suspend or start a data engine.

Input Example

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

{
"DataEngineName": "abc",
"Operate": "suspend"
}
```

Output Example

```
{
"Response": {
"DataEngineName": "abc",
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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

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- 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	An internal error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameter.DataEngineClusterTypeNotMatch	The specified cluster resource type does not match. Currently, only spark_cu (corresponding to Spark cluster) and presto_cu (corresponding to Presto cluster) are supported.
InvalidParameter.InvalidSQL	SQL parsing failed.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
UnauthorizedOperation.OperateComputingEngine	Unauthorized engine operation by a sub-user.

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UpdateDataEngine

Last updated：2024-08-08 15:32:48

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to upgrade data engine 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	Common Params. The value used for this API: UpdateDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Size	Yes	Integer	Resource size
MinClusters	Yes	Integer	Minimum CU resource

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MaxClusters	Yes	Integer	Maximum CU resource
AutoResume	Yes	Boolean	Enable the auto-refresh. True means that it is enabled while false means that it is disabled (by default).
DataEngineName	Yes	String	Data engine name
Message	Yes	String	Related information
AutoSuspend	No	Boolean	Whether to automatically suspend the cluster. False means no (by default) while true means yes.
CrontabResumeSuspend	No	Integer	Scheduling policy of starting and ending the cluster: 0 (by default) indicates disabling the scheduling policy; 1 indicates enabling the scheduling policy. (Note: The scheduling policy and the automatic suspension policy are mutually exclusive.)
CrontabResumeSuspendStrategy	No	CrontabResumeSuspendStrategy	Scheduling policy for the start and end; the complex type includes start and end time and the cluster suspension policy.
MaxConcurrency	No	Integer	The maximum number of concurrent tasks for a single cluster, which is 5 by default.

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TolerableQueueTime	No	Integer	Tolerable queuing time, and it is 0 by default. When the queuing time for tasks exceeds the tolerable time, it may trigger scale-out. If this parameter is 0, it means that scale-out may be triggered immediately once tasks start queuing.
AutoSuspendTime	No	Integer	Cluster automatic suspension time
ElasticSwitch	No	Boolean	Whether the AS of the spark jar monthly subscription cluster is enabled
ElasticLimit	No	Integer	Upper limit of the spark jar monthly subscription cluster elastic scaling
SessionResourceTemplate	No	SessionResourceTemplate	Session resource configuration template of Spark batch job clusters

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

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Example1 Changing the Engine Configuration

This example shows you how to change the engine configuration.

Input Example

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

{
"MaxClusters": 0,
"CrontabResumeSuspend": 0,
"AutoSuspend": true,
"CrontabResumeSuspendStrategy": {
"SuspendTime": "0",
"SuspendStrategy": 0,
"ResumeTime": "0"
},
"AutoResume": true,
"DataEngineName": "test",
"Message": "modify",
"MinClusters": 0,
"Size": 0
}
```

Output Example

```
{
"Response": {
"RequestId": "xx-xxxx-xxx-xxxx"
}
}
```

5. Developer Resources

SDK

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

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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.AbnormalOrderStatus	Order status exception.
FailedOperation.AnotherProcessRunning	Another operation is in progress. Please try again later.
FailedOperation.AnotherRequestProcessing	Another request is being processed. Try again later.
FailedOperation.BalanceNotEnough	Insufficient account balance.
FailedOperation.BillingSystemError	Billing system exception.
FailedOperation.DeliverGoodsFailed	Failed to deliver the goods.
FailedOperation.FeeDeductionFailed	Deduction failed.
FailedOperation.GetProductInformationFailed	Failed to get product information.
FailedOperation.ModifyInstanceFailed	Failed to scale up/down the instance.
FailedOperation.NumberExceedLimit	Reached the allowed limit of engines.
FailedOperation.ParameterValidationFailed	Failed to verify parameters.
FailedOperation.RefundDepositFailed	Refunding failed.
FailedOperation.TooManyResources	The number of resources reached the limit.
InternalError	An internal error occurred.

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InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InstanceInProcess	Instances are in other processes.
InvalidParameter.InvalidDataEngineDescription	The engine description information is invalid.
InvalidParameter.InvalidDataEngineMode	Invalid data engine mode.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
InvalidParameter.InvalidDataEngineSpecs	Invalid data engine spec.
InvalidParameter.InvalidDefaultDataEngine	The default data engine parameters are invalid.
InvalidParameter.InvalidDescription	The description information is invalid.
InvalidParameter.InvalidMinClusters	The minimum number of clusters is invalid.
InvalidParameter.InvalidSQL	SQL parsing failed.
ResourceInUse.UnfinishedSQLs	Some SQL tasks have not yet been completed.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ModifyComputingEngine	Sub-users cannot modify engine configuration.
UnauthorizedOperation.NoPaymentAuthority	No permission to pay.

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DescribeUpdatableDataEngines

Last updated：2024-08-08 15:32:53

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query the list of engines that are able to upgrade their 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	Common Params. The value used for this API: DescribeUpdatableDataEngines.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineConfigCommand	Yes	String	Operation commands of engine configuration. UpdateSparkSQLLakefsPath updates the path of managed tables, and UpdateSparkSQLResultPath updates the path of result buckets.
UseLakeFs	No	Boolean	
CustomResultPath	No	String	

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3. Output Parameters

Parameter Name	Type	Description
DataEngineBasicInfos	Array of DataEngineBasicInfo	Basic cluster information
TotalCount	Integer	Number of clusters
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 sparksql Engine That Needs to Update the Result Bucket Cluster Configuration

This example shows you how to query the sparksql engine that needs to update the result bucket cluster configuration.

Input Example

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

{
"DataEngineConfigCommand": "UpdateSparkSQLResultPath"
}
```

Output Example

```
{
"Response": {
"DataEngineBasicInfos": [
{
"DataEngineName": "abc",
"State": 0,
"CreateTime": 0,
"UpdateTime": 0,
```

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```
"Message": "abc",
"DataEngineId": "abc",
"DataEngineType": "abc",
"AppId": 0,
"UserUin": "abc"
}
],
"TotalCount": 0,
"RequestId": "abc"
}
}
```


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	The operation failed.
InvalidParameter	The parameter is incorrect.

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InvalidParameter.InvalidDataEngineDescription	The engine description information is invalid.
InvalidParameter.InvalidEngineExecType	The engine execution type is invalid.
InvalidParameterValue	The parameter value is incorrect.
ResourceNotFound	The resource does not exist.

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DescribeDataEngine

Last updated：2024-08-08 15:32:55

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to obtain detailed data engine information based on names.

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	Common Params. The value used for this API: DescribeDataEngine.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DataEngineName	Yes	String	House name

3. Output Parameters

Parameter Name	Type	Description
DataEngine	DataEngineInfo	Data engine details

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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 test

Input Example

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

{
"DataEngineName": "xx"
}
```

Output Example

```
{
"Response": {
"DataEngine": {
"MaxClusters": 0,
"DefaultDataEngine": true,
"UpdateTime": 0,
"SpendAfter": 0,
"DataEngineId": "xx",
"CidrBlock": "xx",
"SubAccountUin": "xx",
"AutoResume": true,
"ClusterType": "xx",
"QuotaId": "xx",
"State": 0,
"DataEngineName": "xx",
"Mode": 0,
"Message": "xx",
"CreateTime": 0,
"EngineType": "xx",
"MinClusters": 0,
"Size": 0
},
```

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```
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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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	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidSQL	SQL parsing failed.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.

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DescribeUserDataEngineConfig

Last updated：2024-08-08 15:32:52

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to query user-defined engine parameters.

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	Common Params. The value used for this API: DescribeUserDataEngineConfig.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Sorting	No	String	Sorting methods; desc means in reverse order; asc means in order.
Limit	No	Integer	Quantity of returns. It is 10 by default, and the maximum value is 100.
Offset	No	Integer	Offset, which is 0 by default.
SortBy	No	String	Sorting fields, which support the following type: create-time
Filters.N	No	Array of	Filter criteria. The following filter types are supported. The parameter Name should be one of them. The number of values that can be filtered

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		Filter	by each type of parameter should not be bigger than 5. app-id - String - (filtering appid) engine-id - String - (filtering engine ID)

3. Output Parameters

Parameter Name	Type	Description
DataEngineConfigInstanceInfos	Array of DataEngineConfigInstanceInfo	List of custom configuration items of the user's engine Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total configuration items
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 User-Defined Engine Parameters

This example shows you how to query user-defined engine parameters.

Input Example

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

{
"Sorting": "abc",
"Limit": 0,
"Offset": 0,
"SortBy": "abc",
"Filters": [
```

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```
{
"Name": "abc",
"Values": [
"abc"
]
}
]
}
```

Output Example

```
{
"Response": {
"DataEngineConfigInstanceInfos": [
{
"DataEngineId": "abc",
"DataEngineConfigPairs": [
{
"ConfigItem": "abc",
"ConfigValue": "abc"
}
],
"SessionResourceTemplate": {
"DriverSize": "abc",
"ExecutorSize": "abc",
"ExecutorNums": 1,
"ExecutorMaxNumbers": 1
}
}
],
"TotalCount": 1,
"RequestId": "abc"
}
}
```

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 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	The operation failed.
InternalError	An internal error occurred.
InternalError.DBError	A database error occurred.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.

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CheckDataEngineConfigPairsValidity

Last updated：2024-08-08 15:32:58

1. API Description

Domain name for API request: dlc.tencentcloudapi.com.

This API is used to check the validity of the engine's user-defined parameters.

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	Common Params. The value used for this API: CheckDataEngineConfigPairsValidity.
Version	Yes	String	Common Params. The value used for this API: 2021-01-25.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
ChildImageVersionId	No	String	ID of the minor version of the engine
DataEngineConfigPairs.N	No	Array of DataEngineConfigPair	User-defined parameters
ImageVersionId	No	String	ID of the major version of the engine. If there is the ID of the minor version, only the ID of the minor version needs to be

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			input. If not, the latest ID of the minor version under the major version will be acquired.

3. Output Parameters

Parameter Name	Type	Description
IsAvailable	Boolean	Validity of parameters. true: valid; false: There is at least one invalid parameter.
UnavailableConfig	Array of String	Collection of invalid parameters 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 Checking the Validity of the Engine's User-Defined Parameters

This example shows you how to check the validity of the engine's user-defined parameters.

Input Example

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

{
"ChildImageVersionId": "b8sddsad7-ekd4-4e5e-993e-e5db64fa21c1",
"ImageVersionId": "",
"DataEngineConfigPairs": [
{
"ConfigItem": "key",
"ConfigValue": "value"
}
]
}
```

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Output Example

```
{
"Response": {
"IsAvailable": true,
"UnavailableConfig": [
"key"
],
"RequestId": "b8sd7dd7-ekd4-4e5e-993e-e5db64fa21c1"
}
}
```

5. Developer Resources

SDK

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

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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	The operation failed.

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InternalError	An internal error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again or submit a ticket to contact us.
InvalidParameter	The parameter is incorrect.
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently, only SparkSQL, PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it only supports 1: public and 2: private.
InvalidParameter.ImageParameterSubmitMethodNotMatch	The specified cluster image ParameterSubmitMethod does not match. Currently, only User and BackGround are supported.
InvalidParameter.ImageParameterTypeNotMatch	The specified cluster image ParameterType does not match. Currently, it only supports 1: session; 2: common; 3: cluster.
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only supports 1: initializing, 2: online, 3: offline.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not match. Currently, it only supports: 1: parentVersion; 2: childVersion; 3: pySpark.
InvalidParameter.InvalidWhiteListKey	There is an error in getting an allowlist. Please try again or submit a ticket to contact us.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ImageVersionNotFound	The specified cluster image version does not exist.

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Data Types

Last updated：2024-08-21 19:10:12

AccessInfo

Information about visits to the engine

Used by actions: DescribeDataEngine.

Name	Type	Required	Description
AccessType	String	No	Methods to visit the engine Note: This field may return null, indicating that no valid values can be obtained.
AccessConnectionInfos	Array of String	No	URL that visits the engine and part of internal parameters should be taken place according to the actual situation. Note: This field may return null, indicating that no valid values can be obtained.

Asset

Basic metadata object

Used by actions: AlterDMSDatabase, CreateDMSDatabase, DescribeDMSDatabase, DescribeDMSDatabaseList.

Name	Type	Required	Description
Id	Integer	No	Primary key Note: This field may return null, indicating that no valid values can be obtained.
Name	String	No	Name Note: This field may return null, indicating that no valid values can be obtained.
Guid	String	No	Object GUID value Note: This field may return null, indicating that no valid values can be obtained.
Catalog	String	No	Data directory Note: This field may return null, indicating that no valid

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			values can be obtained.
Description	String	No	Description information
Owner	String	No	Object owner
OwnerAccount	String	No	Object owner account
PermValues	Array of KVPair	No	Permission
Params	Array of KVPair	No	Additional attributes
BizParams	Array of KVPair	No	Additional business attributes
DataVersion	Integer	No	Data version
CreateTime	Timestamp ISO8601	No	Creation time
ModifiedTime	Timestamp ISO8601	No	Modification time
DatasourceId	Integer	No	Data source primary key

CHDFSProductVpcInfo

VPC information of CHDFS products

Used by actions: DescribeOtherCHDFSBindingList.

Name	Type	Required	Description
VpcId	String	No	vpc id Note: This field may return null, indicating that no valid values can be obtained.
VpcName	String	No	VPC name Note: This field may return null, indicating that no valid values can be obtained.
VpcCidrBlock	Array of VpcCidrBlock	No	VPC subnet information list Note: This field may return null, indicating that no valid values can be obtained.
RuleId	Integer	No	Rule ID

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			Note: This field may return null, indicating that no valid values can be obtained.
AccessGroupId	String	No	Permission group ID Note: This field may return null, indicating that no valid values can be obtained.

CheckPermission

Check permission information

Used by actions: CheckGrantedPermission.

Name	Type	Required	Description
AccessType	String	Yes	Permission type Note: This field may return null, indicating that no valid values can be obtained.
ResourceBaseInfo	ResourceBaseInfo	Yes	Resource information Note: This field may return null, indicating that no valid values can be obtained.

Column

Column information of the data table.

Used by actions: DescribeTaskResult, QueryResult.

Name	Type	Required	Description
Name	String	Yes	Column name, which is case-insensitive and can contain up to 25 chara
Type	String	Yes	Column type. Valid values: string|tinyint|smallint|int|bigint|boolean|float|double|decimal|timestamp|c data_type>|struct<col_name : data_type [COMMENT col_comment], ...>.
Comment	String	No	Class comment. Note: This field may return null, indicating that no valid values can be ob
Precision	Integer	No	Length of the entire numeric value Note: This field may return null, indicating that no valid values can be ob

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Scale	Integer	No	Length of the decimal part Note: This field may return null, indicating that no valid values can be ob
Nullable	String	No	Whether the column is null. Note: This field may return null, indicating that no valid values can be ob
Position	Integer	No	Field position Note: This field may return null, indicating that no valid values can be ob
CreateTime	String	No	Field creation time Note: This field may return null, indicating that no valid values can be ob
ModifiedTime	String	No	Field modification time Note: This field may return null, indicating that no valid values can be ob
IsPartition	Boolean	No	Whether the column is the partition field. Note: This field may return null, indicating that no valid values can be ob

CommonMetrics

Common task metrics

Used by actions: DescribeSparkAppTasks, DescribeTasks.

Name	Type	Description
CreateTaskTime	Float	Note: This field may return null, indicating that no valid values can be obtained.
ProcessTime	Float	Note: This field may return null, indicating that no valid values can be obtained.
QueueTime	Float	Note: This field may return null, indicating that no valid values can be obtained.
ExecutionTime	Float	Note: This field may return null, indicating that no valid values can be obtained.
IsResultCacheHit	Boolean	Note: This field may return null, indicating that no valid values can be obtained.
MatchedMVBytes	Integer	Note: This field may return null, indicating that no valid values can be obtained.
MatchedMVs	String	Note: This field may return null, indicating that no valid values can be obtained.

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AffectedBytes	String	Note: This field may return null, indicating that no valid values can be obtained.
AffectedRows	Integer	Note: This field may return null, indicating that no valid values can be obtained.
ProcessedBytes	Integer	Note: This field may return null, indicating that no valid values can be obtained.
ProcessedRows	Integer	Note: This field may return null, indicating that no valid values can be obtained.

CosPermission

COS permissions

Used by actions: DescribeUserRoles.

Name	Type	Required	Description
CosPath	String	No	Note: This field may return null, indicating that no valid values can be obtained.
Permissions	Array of String	No	Note: This field may return null, indicating that no valid values can be obtained.

CrontabResumeSuspendStrategy

Scheduled start and suspension information

Used by actions: CreateDataEngine, DescribeDataEngine, UpdateDataEngine.

Name	Type	Required	Description
ResumeTime	String	No	Scheduled starting time, such as 8: 00 a.m. on Monday and Wednesday Note: This field may return null, indicating that no valid values can be obtained.
SuspendTime	String	No	Scheduled suspension time, such as 8: 00 p.m. on Monday and Wednesday Note: This field may return null, indicating that no valid values can be obtained.

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SuspendStrategy	Integer	No	The suspension setting. Valid values: `0` (suspension after task end, default) and `1` (force suspension). Note: This field may return null, indicating that no valid values can be obtained.

DLCCatalogAccess

Permission to visit DLC data logs

Used by actions: DescribeDLCCatalogAccess.

Name	Type	Required	Description
VpcId	String	Yes	VPCID Note: This field may return null, indicating that no valid values can be obtained.
Product	String	Yes	Product type Note: This field may return null, indicating that no valid values can be obtained.
Description	String	No	Description Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	No	Creation time Note: This field may return null, indicating that no valid values can be obtained.

DLCTable

Query table information object

Used by actions: CreateDLCTable, DescribeDLCTable, DescribeDLCTableList.

Name	Type	Description
TableBaseInfo	TableBaseInfo	Basic information of the data table Note: This field may return null, indicating that no valid values can be obtained.
Columns	Array of TColumn	Data table column information Note: This field may return null, indicating that no

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		valid values can be obtained.
Partitions	Array of TPartition	Data table partition information Note: This field may return null, indicating that no valid values can be obtained.
Location	String	Data storage path Note: This field may return null, indicating that no valid values can be obtained.
Properties	Array of Property	Data table attribute information Note: This field may return null, indicating that no valid values can be obtained.
ModifiedTime	String	Data table update information Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	Database creation time Note: This field may return null, indicating that no valid values can be obtained.
InputFormat	String	Data format Note: This field may return null, indicating that no valid values can be obtained.
StorageSize	Integer	Data storage size Note: This field may return null, indicating that no valid values can be obtained.
RecordCount	Integer	Number of rows in the data table Note: This field may return null, indicating that no valid values can be obtained.
MapMaterializedViewName	String	Materialized view name Note: This field may return null, indicating that no valid values can be obtained.
HeatValue	Integer	Visit hot spots Note: This field may return null, indicating that no valid values can be obtained.
ExternalDataConfiguration	ExternalDataConfiguration	External table configuration information Note: This field may return null, indicating that no valid values can be obtained.

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DMSColumn

Migrating column objects

Used by actions: CreateDLCTable, DescribeDLCTable, DescribeDLCTableList.

Name	Type	Required	Description
Name	String	No	Name Note: This field may return null, indicating that no valid values can be obtained.
Description	String	No	Description Note: This field may return null, indicating that no valid values can be obtained.
Type	String	No	Type Note: This field may return null, indicating that no valid values can be obtained.
Position	Integer	No	Sort Note: This field may return null, indicating that no valid values can be obtained.
Params	Array of KVPair	No	Additional Parameters Note: This field may return null, indicating that no valid values can be obtained.
BizParams	Array of KVPair	No	Business parameters Note: This field may return null, indicating that no valid values can be obtained.
IsPartition	Boolean	No	Whether partitioned Note: This field may return null, indicating that no valid values can be obtained.

DMSColumnOrder

Column sorting object

Used by actions: CreateDLCTable, DescribeDLCTable, DescribeDLCTableList.

Name	Type	Required	Description
Col	String	No	Column name

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			Note: This field may return null, indicating that no valid values can be obtained.
Order	Integer	No	Sort Note: This field may return null, indicating that no valid values can be obtained.

DMSDatabaseInfo

Metadata database objects

Used by actions: DescribeDMSDatabaseList.

Name	Type	Description
Name	String	Database name Note: This field may return null, indicating that no valid values can be obtained.
SchemaName	String	Schema name Note: This field may return null, indicating that no valid values can be obtained.
Location	String	Storage address Note: This field may return null, indicating that no valid values can be obtained.
Asset	Asset	Basic object information Note: This field may return null, indicating that no valid values can be obtained.

DMSPartition

Partition objects of the migrating metadata

Used by actions: CreateDLCTable, DescribeDLCTable, DescribeDLCTableList.

Name	Type	Required	Description
DatabaseName	String	No	Database name
SchemaName	String	No	Data directory name
TableName	String	No	Table name
DataVersion	Integer	No	Data version
Name	String	No	Partition name

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Values	Array of String	No	Value List
StorageSize	Integer	No	Storage size
RecordCount	Integer	No	Number of records
CreateTime	Timestamp ISO8601	No	Creation time
ModifiedTime	Timestamp ISO8601	No	Modification time
LastAccessTime	Timestamp ISO8601	No	Last access time
Params	Array of KVPair	No	Additional attribute
Sds	DMSSds	No	Storage object

DMSSds

Description of metadata storage attributes

Used by actions: CreateDLCTable, DescribeDLCTable, DescribeDLCTableList.

Name	Type	Required	Description
Location	String	No	Storage address Note: This field may return null, indicating that no valid values can be obtained.
InputFormat	String	No	Input format Note: This field may return null, indicating that no valid values can be obtained.
OutputFormat	String	No	Output format Note: This field may return null, indicating that no valid values can be obtained.
NumBuckets	Integer	No	Number of buckets Note: This field may return null, indicating that no valid values can be obtained.
Compressed	Boolean	No	Whether it is compressed Note: This field may return null, indicating that no valid values can be obtained.
StoredAsSubDirectories	Boolean	No	Whether it has a subdirectory Note: This field may return null, indicating that

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			no valid values can be obtained.
SerdeLib	String	No	Serialization lib Note: This field may return null, indicating that no valid values can be obtained.
SerdeName	String	No	Serialization name Note: This field may return null, indicating that no valid values can be obtained.
BucketCols	Array of String	No	Bucket name Note: This field may return null, indicating that no valid values can be obtained.
SerdeParams	Array of KVPair	No	Serialization parameters Note: This field may return null, indicating that no valid values can be obtained.
Params	Array of KVPair	No	Additional Parameters Note: This field may return null, indicating that no valid values can be obtained.
SortCols	DMSColumnOrder	No	Column sorting (Expired) Note: This field may return null, indicating that no valid values can be obtained.
Cols	Array of DMSColumn	No	Column Note: This field may return null, indicating that no valid values can be obtained.
SortColumns	Array of DMSColumnOrder	No	Column sorting field Note: This field may return null, indicating that no valid values can be obtained.

DMSSourceDatabaseInfo

Source database description

Used by actions: CopyDLCTable.

Name	Type	Required	Description
SourceDatabaseName	String	Yes	Source database name Note: This field may return null, indicating that no valid values can be obtained.

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SourceTableNameList	Array of String	Yes	Array of table names in the source database Note: This field may return null, indicating that no valid values can be obtained.

DataEngineBasicInfo

Basic information of DataEngine

Used by actions: DescribeUpdatableDataEngines.

Name	Type	Description
DataEngineName	String	DataEngine name
State	Integer	Data engine status: -2: deleted; -1: failed; 0: initializing; 1: suspended; 2: running; 3: ready to delete; 4: deleting
CreateTime	Integer	Creation time
UpdateTime	Integer	Update time
Message	String	Returned information Note: This field may return null, indicating that no valid values can be obtained.
DataEngineId	String	Engine ID
DataEngineType	String	Engine types, and the valid values are PrestoSQL, SparkSQL, and SparkBatch. Note: This field may return null, indicating that no valid values can be obtained.
AppId	Integer	User ID Note: This field may return null, indicating that no valid values can be obtained.
UserUin	String	Account ID Note: This field may return null, indicating that no valid values can be obtained.

DataEngineConfigInstanceInfo

Engine configuration information

Used by actions: DescribeUserDataEngineConfig.

Name	Type	Description

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DataEngineId	String	Engine ID Note: This field may return null, indicating that no valid values can be obtained.
DataEngineConfigPairs	Array of DataEngineConfigPair	Collection of user-defined configuration items
SessionResourceTemplate	SessionResourceTemplate	Template of the resource parameter configuration of the job cluster

DataEngineConfigPair

Engine configurations

Used by actions: CheckDataEngineConfigPairsValidity, CreateDataEngine, DescribeUserDataEngineConfig, UpdateUserDataEngineConfig.

Name	Type	Required	Description
ConfigItem	String	Yes	Configuration items Note: This field may return null, indicating that no valid values can be obtained.
ConfigValue	String	Yes	Configuration values Note: This field may return null, indicating that no valid values can be obtained.

DataEngineImageVersion

Information about the major version of the cluster image

Used by actions: DescribeDataEngineImageVersions.

Name	Type	Description
ImageVersionId	String	ID of the major version of the image
ImageVersion	String	Name of the major version of the image
Description	String	Description of the major version of the image Note: This field may return null, indicating that no valid values can be obtained.
IsPublic	Integer	Whether it is a public version: 1: public version; 2: private version

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EngineType	String	Cluster types: SparkSQL, PrestoSQL, and SparkBatch
IsSharedEngine	Integer	Version status. 1: initializing; 2: online; 3: offline
State	Integer	Version status. 1: initializing; 2: online; 3: offline
InsertTime	String	Insert time
UpdateTime	String	Update time

DataEngineInfo

DataEngine details

Used by actions: DescribeDataEngine.

Name	Type	Required	Description
DataEngineName	String	Yes	DataEngine name
EngineType	String	Yes	Engine type: spark/presto
ClusterType	String	Yes	Cluster resource type spark_private/presto_pri
QuotaId	String	No	Quota ID
State	Integer	No	Data engine status -2 del initializing, 1 suspended, delete, and 4 deleting
CreateTime	Integer	No	Creation time
UpdateTime	Integer	No	Update time
Size	Integer	No	Cluster specifications Note: The returned value indicating that no valid va
Mode	Integer	No	Billing mode: 0 shared m and 2 monthly subscriptio
MinClusters	Integer	No	Minimum number of clust Note: The returned value indicating that no valid va

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MaxClusters	Integer	No	Maximum number of clus Note: The returned value indicating that no valid va
AutoResume	Boolean	No	Whether to recover autor Note: The returned value indicating that no valid va
SpendAfter	Integer	No	Automatic recovery time Note: The returned value indicating that no valid va
CidrBlock	String	No	Cluster IP range Note: The returned value indicating that no valid va
DefaultDataEngine	Boolean	No	Whether it is the default e Note: The returned value indicating that no valid va
Message	String	No	Returned Message Note: The returned value indicating that no valid va
DataEngineId	String	No	Engine ID
SubAccountUin	String	No	Operator
ExpireTime	String	No	Expiration time
IsolatedTime	String	No	Isolation time
ReversalTime	String	No	Rectification time
UserAlias	String	No	Username Note: The returned value indicating that no valid va
TagList	Array of TagInfo	No	Key-value pair collection Note: The returned value indicating that no valid va
Permissions	Array of String	No	Permissions owned by th Note: The returned value indicating that no valid va
AutoSuspend	Boolean	No	Whether to automatically False (by default) means

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			automatically suspended cluster is automatically su Note: The returned value indicating that no valid va
CrontabResumeSuspend	Integer	No	Scheduling policy of start cluster: 0 (by default) ind scheduling policy; 1 indic scheduling policy. (Note: starting and ending the c suspension policy are mu Note: The returned value indicating that no valid va
CrontabResumeSuspendStrategy	CrontabResumeSuspendStrategy	No	Scheduled start and end Include start and end tim suspension strategy. Note: The returned value indicating that no valid va
EngineExecType	String	No	Type of the task executed value: SQL/BATCH Note: The returned value indicating that no valid va
RenewFlag	Integer	No	Automatic renewal flag: 0 and there is no automatic the user has the privilege advanced payment, there renewal. 1 means that the renewal. 2 means that the automatic renewal. Note: The returned value indicating that no valid va
AutoSuspendTime	Integer	No	Cluster automatic susper Note: The returned value indicating that no valid va
NetworkConnectionSet	Array of NetworkConnection	No	Network connection conf Note: The returned value indicating that no valid va
UiURL	String	No	Jump address of ui Note: The returned value indicating that no valid va

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ResourceType	String	No	Type of the engine resou Note: The returned value indicating that no valid va
ImageVersionId	String	No	Cluster image version ID Note: The returned value indicating that no valid va
ChildImageVersionId	String	No	Minor cluster image versi Note: The returned value indicating that no valid va
ImageVersionName	String	No	Cluster image version na Note: The returned value indicating that no valid va
StartStandbyCluster	Boolean	No	Whether to enable the sta Note: The returned value indicating that no valid va
ElasticSwitch	Boolean	No	Whether the elastic scalin monthly subscription clus Note: The returned value indicating that no valid va
ElasticLimit	Integer	No	Upper limit of the spark ja cluster elasticity Note: The returned value indicating that no valid va
DefaultHouse	Boolean	No	Whether it is the default e Note: The returned value indicating that no valid va
MaxConcurrency	Integer	No	Maximum concurrency nu Note: The returned value indicating that no valid va
TolerableQueueTime	Integer	No	Maximum time for the tas Note: The returned value indicating that no valid va
UserAppId	Integer	No	User AppID Note: The returned value indicating that no valid va
UserUin	String	No	User uin

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			Note: The returned value indicating that no valid va
SessionResourceTemplate	SessionResourceTemplate	No	SessionResourceTempla Note: The returned value indicating that no valid va
AutoAuthorization	Boolean	No	Automatic authorization s Note: The returned value indicating that no valid va
EngineGeneration	String	No	Engine version, supportir Note: The returned value indicating that no valid va
EngineTypeDetail	String	No	Detailed engine type, sup SparkSQL/SparkBatch/F Note: The returned value indicating that no valid va
EngineNetworkId	String	No	Engine network ID Note: The returned value indicating that no valid va
EngineResourceGroupCount	Integer	No	Number of resource grou standard engine Note: The returned value indicating that no valid va
EngineResourceUsedCU	Integer	No	Current usage of the eng Note: The returned value indicating that no valid va
AccessInfos	Array of AccessInfo	No	Access information of the Note: The returned value indicating that no valid va
EngineNetworkName	String	No	Name of the network whe Note: The returned value indicating that no valid va

DataEngineScaleInfo

Engine specification details

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Used by actions: DescribeDataEnginesScaleDetail.

Name	Type	Description
DataEngineId	String	Engine ID Note: This field may return null, indicating that no valid values can be obtained.
DataEngineName	String	Engine name Note: This field may return null, indicating that no valid values can be obtained.
ScaleDetail	Array of DataEngineScaleInfoDetail	Engine specification details Note: This field may return null, indicating that no valid values can be obtained.

DataEngineScaleInfoDetail

Engine specification details

Used by actions: DescribeDataEnginesScaleDetail.

Name	Type	Description
StartTime	String	Start time of counting in the format of yyyy-MM-dd HH:mm:ss Note: This field may return null, indicating that no valid values can be obtained.
EndTime	String	End time of counting in the format of yyyy-MM-dd HH:mm:ss Note: This field may return null, indicating that no valid values can be obtained.
CU	Integer	Current statistical time period and engine specifications Note: This field may return null, indicating that no valid values can be obtained.

Execution

SQL statement objects

Used by actions: GenerateCreateMangedTableSql.

Name	Type	Description
SQL	String	The automatically generated SQL statements.

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ExternalDataConfiguration

External table configuration

Used by actions: CreateDLCTable, DescribeDLCTable, DescribeDLCTableList.

Name	Type	Required	Description
Sds	DMSSds	No	Metadata storage object Note: This field may return null, indicating that no valid values can be obtained.
ViewOriginalText	String	No	View text Note: This field may return null, indicating that no valid values can be obtained.
ViewExpandedText	String	No	View text Note: This field may return null, indicating that no valid values can be obtained.
Retention	Integer	No	Hive maintenance version Note: This field may return null, indicating that no valid values can be obtained.
LifeTime	Integer	No	Lifecycle Note: This field may return null, indicating that no valid values can be obtained.
Partitions	Array of DMSPartition	No	Partition Note: This field may return null, indicating that no valid values can be obtained.

FavorInfo

FavorInfo

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

Name	Type	Required	Description
Priority	Integer	No	Prioritized items Note: This field may return null, indicating that no valid values can be obtained.

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Catalog	String	No	Catalog name Note: This field may return null, indicating that no valid values can be obtained.
DataBase	String	No	DataBase name Note: This field may return null, indicating that no valid values can be obtained.
Table	String	No	Table name Note: This field may return null, indicating that no valid values can be obtained.

Filter

Query list filter parameter

Used by actions: DescribeDLCCatalogAccess, DescribeDLCTableList, DescribeSparkAppJobs, DescribeSparkAppTasks, DescribeTablesName, DescribeTasks, DescribeUserDataEngineConfig, DescribeUserInfo, DescribeUsers, DescribeWorkGroupInfo, DescribeWorkGroups, QueryTaskCostDetail.

Name	Type	Required	Description
Name	String	Yes	Attribute name. If more than one filter exists, the logical relationship between these filters is `OR` .
Values	Array of String	Yes	Attribute value. If multiple values exist in one filter, the logical relationship between these values is `OR` .

JobResponseInfo

Job information

Used by actions: DescribeJobs.

Name	Type	Required	Description
JobName	String	No	Job name Note: This field may return null, indicating that no valid values can be obtained.
StatisticInfo	StatisticInfo	No	Statistics Note: This field may return null, indicating that no valid values can be obtained.

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JobConfiguration	String	No	Job configuration Note: This field may return null, indicating that no valid values can be obtained.
JobStatus	Integer	No	The current status of the job: 0: initializing; 1: running; 2: executed; 3: writing data; 4: queuing; -1: execution failed; -3: manually terminated. The job execution result is returned only when the job is successfully executed. Note: This field may return null, indicating that no valid values can be obtained.

KVPair

Configuration format

Used by actions: AlterDMSDatabase, CreateDLCTable, CreateDMSDatabase, CreateSparkSessionBatchSQL, CreateTask, CreateTasks, DescribeDLCTable, DescribeDLCTableList, DescribeDMSDatabase, DescribeSparkSessionBatchSqlLog, DropDMSTable.

Name	Type	Required	Description
Key	String	Yes	Configured key Note: This field may return null, indicating that no valid values can be obtained.
Value	String	Yes	Configured value Note: This field may return null, indicating that no valid values can be obtained.

LakeFsInfo

Describe basic information about DLC managed storage

Used by actions: DescribeLakeFsInfo.

Name	Type	Description
Name	String	Managed storage name
Type	String	Managed storage type
SpaceUsedSize	Float	Capacity
CreateTimeStamp	Integer	Timestamp of the creation time

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DefaultBucket	Integer	Whether it is the user's default bucket: 0: default bucket, 1: non-default bucket Note: This field may return null, indicating that no valid values can be obtained.
ShortName	String	Managed storage short name Note: This field may return null, indicating that no valid values can be obtained.
Description	String	Description information of the bucket Note: This field may return null, indicating that no valid values can be obtained.
Status	String	The status of the managed bucket. Current values: creating, bind, readOnly, and isolate Note: This field may return null, indicating that no valid values can be obtained.

MountPointAssociates

Bind fusion bucket information

Used by actions: CreateCHDFSBindingProduct.

Name	Type	Description
BucketId	String	Bucket ID Note: This field may return null, indicating that no valid values can be obtained.
VpcId	String	vpcId Note: This field may return null, indicating that no valid values can be obtained.
VpcCidrBlock	String	Subnet address Note: This field may return null, indicating that no valid values can be obtained.
AccessGroupId	String	Permission group ID Note: This field may return null, indicating that no valid values can be obtained.
AccessRuleId	Integer	Permission rule ID Note: This field may return null, indicating that no valid values can be obtained.

NetworkConnection

Network configuration

Used by actions: DescribeDataEngine.

Name	Type	Required	Description

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Id	Integer	No	Network configuration ID Note: This field may return null, indicating that no valid values can be obtained.
AssociateId	String	No	Unique identifier of network configuration Note: This field may return null, indicating that no valid values can be obtained.
HouseId	String	No	Computing engine ID Note: This field may return null, indicating that no valid values can be obtained.
DatasourceConnectionId	String	No	Data source ID (discarded) Note: This field may return null, indicating that no valid values can be obtained.
State	Integer	No	Network configuration status (0 - initializing; 1 - normal) Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Integer	No	Creation time Note: This field may return null, indicating that no valid values can be obtained.
UpdateTime	Integer	No	Modification time Note: This field may return null, indicating that no valid values can be obtained.
Appid	Integer	No	Create user Appid. Note: This field may return null, indicating that no valid values can be obtained.
HouseName	String	No	Computing engine name Note: This field may return null, indicating that no valid values can be obtained.
DatasourceConnectionName	String	No	Network configuration name Note: This field may return null, indicating that no valid values can be obtained.
NetworkConnectionType	Integer	No	Network configuration type Note: This field may return null, indicating that no valid values can be obtained.
Uin	String	No	Create user UIN. Note: This field may return null, indicating

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			that no valid values can be obtained.
SubAccountUin	String	No	Create user SubAccountUin. Note: This field may return null, indicating that no valid values can be obtained.
NetworkConnectionDesc	String	No	Network configuration description Note: This field may return null, indicating that no valid values can be obtained.
DatasourceConnectionVpcId	String	No	Data source vpcid Note: This field may return null, indicating that no valid values can be obtained.
DatasourceConnectionSubnetId	String	No	Data source SubnetId Note: This field may return null, indicating that no valid values can be obtained.
DatasourceConnectionCidrBlock	String	No	Data source SubnetId Note: This field may return null, indicating that no valid values can be obtained.
DatasourceConnectionSubnetCidrBlock	String	No	Data source SubnetCidrBlock Note: This field may return null, indicating that no valid values can be obtained.

OpendThirdAccessUserInfo

Information about the users accessing through the third-party

Used by actions: DescribeThirdPartyAccessUser.

Name	Type	Description
Id	Integer	ID information Note: This field may return null, indicating that no valid values can be obtained.
Uin	String	User primary UIN Note: This field may return null, indicating that no valid values can be obtained.
AppId	String	User AppID Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	Activation time Note: This field may return null, indicating that no valid values can be obtained.

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OtherCHDFSBinding

Binding Self-purchased CHDFS to DLC

Used by actions: DescribeOtherCHDFSBindingList.

Name	Type	Description
ProductName	String	Product name Note: This field may return null, indicating that no valid values can be obtained.
SuperUser	Array of String	User name (a discarded field) Note: This field may return null, indicating that no valid values can be obtained.
VpcInfo	Array of CHDFSProductVpcInfo	VPC configuration information Note: This field may return null, indicating that no valid values can be obtained.
IsBind	Boolean	Whether to bind the bucket (a discarded field) Note: This field may return null, indicating that no valid values can be obtained.

PermissionResponseInfo

Permission information

Used by actions: CheckGrantedPermission.

Name	Type	Required	Description
AccessType	String	No	Permission type Note: This field may return null, indicating that no valid values can be obtained.
ResourceBaseInfo	ResourceBaseInfo	No	Resource information Note: This field may return null, indicating that no valid values can be obtained.
Allowed	Boolean	No	Authentication result Note: This field may return null, indicating that no valid values can be obtained.

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Policy

Permission objects

Used by actions: AttachUserPolicy, AttachWorkGroupPolicy, CreateUser, CreateWorkGroup, DescribeUserInfo, DescribeUsers, DescribeWorkGroupInfo, DescribeWorkGroups, DetachUserPolicy, DetachWorkGroupPolicy, UpdateRowFilter.

Name	Type	Required	Description
Database	String	Yes	The name of the target database. `*` represents all databases in the current catalog. To grant admin permissions, it must be `*` ; to grant data connection permissions, it must be null; to grant other permissions, it can be any database.
Catalog	String	Yes	The name of the target data source. To grant admin permission, it must be `*` (all resources at this level); to grant data source and database permissions, it must be `COSDataCatalog` or `*` ; to grant table permissions, it can be a custom data source; if it is left empty, `DataLakeCatalog` is used. Note: To grant permissions on a custom data source, the permissions that can be managed in the Data Lake Compute console are subsets of the account permissions granted when you connect the data source to the console.
Table	String	Yes	The name of the target table. `*` represents all tables in the current database. To grant admin permissions, it must be `*` ; to grant data connection and database permissions, it must be null; to grant other permissions, it can be any table.
Operation	String	Yes	The target permissions, which vary by permission level. Admin: `ALL` (default); data connection: `CREATE` ; database: `ALL` , `CREATE` , `ALTER` , and `DROP` ; table: `ALL` , `SELECT` , `INSERT` , `ALTER` , `DELETE` , `DROP` , and `UPDATE` . Note: For table permissions, if a data source other than `COSDataCatalog` is specified, only the `SELECT` permission can be granted here.
PolicyType	String	No	The permission type. Valid values: `ADMIN` , `DATASOURCE` , `DATABASE` , `TABLE` , `VIEW` , `FUNCTION` , `COLUMN` , and `ENGINE` . Note: If it is left empty, `ADMIN` is used.
Function	String	No	The name of the target function. `*` represents all functions in the current catalog. To grant admin permissions, it must be `*` ; to grant data connection permissions, it must be null; to grant other

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			permissions, it can be any function. Note: This field may return null, indicating that no valid values can be obtained.
View	String	No	The name of the target view. `*` represents all views in the current database. To grant admin permissions, it must be `*` ; to grant data connection and database permissions, it must be null; to grant other permissions, it can be any view. Note: This field may return null, indicating that no valid values can be obtained.
Column	String	No	The name of the target column. `*` represents all columns. To grant admin permissions, it must be `*` . Note: This field may return null, indicating that no valid values can be obtained.
DataEngine	String	No	The name of the target data engine. `*` represents all engines. To grant admin permissions, it must be `*` . Note: This field may return null, indicating that no valid values can be obtained.
ReAuth	Boolean	No	Whether the grantee is allowed to further grant the permissions. Valid values: `false` (default) and `true` (the grantee can grant permissions gained here to other sub-users). Note: This field may return null, indicating that no valid values can be obtained.
Source	String	No	The permission source, which is not required when input parameters are passed in. Valid values: `USER` (from the user) and `WORKGROUP` (from one or more associated work groups). Note: This field may return null, indicating that no valid values can be obtained.
Mode	String	No	The grant mode, which is not required as an input parameter. Valid values: `COMMON` and `SENIOR` . Note: This field may return null, indicating that no valid values can be obtained.
Operator	String	No	The operator, which is not required as an input parameter. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	No	The permission policy creation time, which is not required as an input parameter. Note: This field may return null, indicating that no valid values can be obtained.

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SourceId	Integer	No	The ID of the work group, which applies only when the value of the `Source` field is `WORKGROUP`. Note: This field may return null, indicating that no valid values can be obtained.
SourceName	String	No	The name of the work group, which applies only when the value of the `Source` field is `WORKGROUP`. Note: This field may return null, indicating that no valid values can be obtained.
Id	Integer	No	The policy ID. Note: This field may return null, indicating that no valid values can be obtained.

Policys

Collection of policies

Used by actions: DescribeUserInfo, DescribeWorkGroupInfo.

Name	Type	Description
PolicySet	Array of Policy	Collection of policies Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total policies Note: This field may return null, indicating that no valid values can be obtained.

PrestoMonitorMetrics

Presto monitoring metrics

Used by actions: DescribeSparkAppTasks, DescribeTasks.

Name	Type	Description
LocalCacheHitRate	Float	Note: This field may return null, indicating that no valid values can be obtained.
FragmentCacheHitRate	Float	Note: This field may return null, indicating that no valid values can be obtained.

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Property

Properties of database and table

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql.

Name	Type	Required	Description
Key	String	Yes	The property key name.
Value	String	Yes	The property value.

PythonSparkImage

Python-spark image information.

Used by actions: DescribeDataEnginePythonSparkImages.

Name	Type	Description
SparkImageId	String	Unique ID of the spark image
ChildImageVersionId	String	ID of the cluster image of the minor version
SparkImageVersion	String	Name of the spark image
Description	String	Description of the spark image Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	Creation time
UpdateTime	String	Update time

ResourceBaseInfo

Resource basic information

Used by actions: CheckGrantedPermission.

Name	Type	Required	Description

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Catalog	String	No	Catalog name Note: This field may return null, indicating that no valid values can be obtained.
Schema	String	No	Schema name Note: This field may return null, indicating that no valid values can be obtained.
Table	String	No	Table name Note: This field may return null, indicating that no valid values can be obtained.
View	String	No	View name Note: This field may return null, indicating that no valid values can be obtained.
Database	String	No	Database name Note: This field may return null, indicating that no valid values can be obtained.
Function	String	No	Function name Note: This field may return null, indicating that no valid values can be obtained.

ResourceInfo

ResourceInfo

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

Name	Type	Required	Description
AttributionType	String	No	Affiliated type Note: This field may return null, indicating that no valid values can be obtained.
ResourceType	String	No	Resource type Note: This field may return null, indicating that no valid values can be obtained.
Name	String	No	Engine name Note: This field may return null, indicating that no valid values can be obtained.

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Instance	String	No	If the resource type is spark-sql, the value is Name; if the resource type is spark-batch, the value is session app_name. Note: This field may return null, indicating that no valid values can be obtained.
Favor	Array of FavorInfo	No	Affinity Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	No	Status Note: This field may return null, indicating that no valid values can be obtained.

SQLTask

SQL query task

Used by actions: CreateTask.

Name	Type	Required	Description
SQL	String	Yes	Base64-encrypted SQL statement
Config	Array of KVPair	No	Task configuration information

SessionResourceTemplate

The session resource configuration template for a Spark cluster.

Used by actions: CreateDataEngine, DescribeDataEngine, DescribeUserDataEngineConfig, UpdateDataEngine, UpdateUserDataEngineConfig.

Name	Type	Required	Description
DriverSize	String	No	The driver size. Valid values for the standard resource type: `small`, `medium`, `large`, and `xlarge`. Valid values for the memory resource type: `m.small`, `m.medium`, `m.large`, and `m.xlarge`. Note: This field may return null, indicating that no valid values can be obtained.
ExecutorSize	String	No	The executor size.

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			Valid values for the standard resource type: `small`, `medium`, `large`, and `xlarge`. Valid values for the memory resource type: `m.small`, `m.medium`, `m.large`, and `m.xlarge`. Note: This field may return null, indicating that no valid values can be obtained.
ExecutorNums	Integer	No	The executor count. The minimum value is 1 and the maximum value is less than the cluster specification. Note: This field may return null, indicating that no valid values can be obtained.
ExecutorMaxNumbers	Integer	No	The maximum executor count (in dynamic mode). The minimum value is 1 and the maximum value is less than the cluster specification. If you set `ExecutorMaxNumbers` to a value smaller than that of `ExecutorNums`, the value of `ExecutorMaxNumbers` is automatically changed to that of `ExecutorNums`. Note: This field may return null, indicating that no valid values can be obtained.

SmartOptimizerIndexPolicy

SmartOptimizerIndexPolicy

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

Name	Type	Required	Description
IndexEnable	String	No	Enable index. Note: This field may return null, indicating that no valid values can be obtained.

SmartOptimizerLifecyclePolicy

SmartOptimizerLifecyclePolicy

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

Name	Type	Required	Description

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LifecycleEnable	String	No	Enable the lifecycle Note: This field may return null, indicating that no valid values can be obtained.
Expiration	Integer	No	Expiration time Note: This field may return null, indicating that no valid values can be obtained.
DropTable	Boolean	No	Whether to delete the table Note: This field may return null, indicating that no valid values can be obtained.
ExpiredField	String	No	Expired fields Note: This field may return null, indicating that no valid values can be obtained.
ExpiredFieldFormat	String	No	Expired field format Note: This field may return null, indicating that no valid values can be obtained.

SmartOptimizerPolicy

SmartOptimizerPolicy

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

Name	Type	Required	Description
Inherit	String	No	Whether to inherit it Note: This field may return null, indicating that no valid values can be obtained.
Resources	Array of ResourceInfo	No	ResourceInfo Note: This field may return null, indicating that no valid values can be obtained.
Written	SmartOptimizerWrittenPolicy	No	SmartOptimizerWrittenPolicy Note: This field may return null, indicating that no valid values can be obtained.
Lifecycle	SmartOptimizerLifecyclePolicy	No	SmartOptimizerLifecyclePolicy Note: This field may return null, indicating that no valid values can be obtained.

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Index	SmartOptimizerIndexPolicy	No	SmartOptimizerIndexPolicy Note: This field may return null, indicating that no valid values can be obtained.

SmartOptimizerWrittenPolicy

SmartOptimizerWrittenPolicy

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

Name	Type	Required	Description
WrittenEnable	String	No	none/enable/disable/default Note: This field may return null, indicating that no valid values can be obtained.

SmartPolicy

SmartPolicyRequest

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

Name	Type	Required	Description
BaseInfo	SmartPolicyBaseInfo	No	Basic information Note: This field may return null, indicating that no valid values can be obtained.
Policy	SmartOptimizerPolicy	No	Policy description Note: This field may return null, indicating that no valid values can be obtained.

SmartPolicyBaseInfo

SmartPolicyBaseInfo

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql, GetOptimizerPolicy.

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Name	Type	Required	Description
Uin	String	Yes	User UIN Note: This field may return null, indicating that no valid values can be obtained.
PolicyType	String	No	Catalog/Database/Table Note: This field may return null, indicating that no valid values can be obtained.
Catalog	String	No	Catalog name Note: This field may return null, indicating that no valid values can be obtained.
Database	String	No	Database name Note: This field may return null, indicating that no valid values can be obtained.
Table	String	No	Table name Note: This field may return null, indicating that no valid values can be obtained.
AppId	String	No	User AppID Note: This field may return null, indicating that no valid values can be obtained.

SparkJobInfo

Spark job details

Used by actions: DescribeSparkAppJob, DescribeSparkAppJobs.

Name	Type	Description
JobId	String	Spark job ID
JobName	String	Spark job name
JobType	Integer	Spark job type. Valid values: `1` (batch job), `2` (streaming job).
DataEngine	String	Engine name
Eni	String	This field has been disused. Use the `Datasource` field instead.

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IsLocal	String	Whether the program package is uploaded locally. Valid values: `cos` , `lakefs` .
JobFile	String	Program package path
RoleArn	Integer	Role ID
MainClass	String	Main class of Spark job execution
CmdArgs	String	Command line parameters of the Spark job separated by space
JobConf	String	Native Spark configurations separated by line break
IsLocalJars	String	Whether the dependency JAR packages are uploaded locally. Valid values: `cos` , `lakefs` .
JobJars	String	Dependency JAR packages of the Spark job separated by comma
IsLocalFiles	String	Whether the dependency file is uploaded locally. Valid values: `cos` , `lakefs` .
JobFiles	String	Dependency files of the Spark job separated by comma
JobDriverSize	String	Driver resource size of the Spark job
JobExecutorSize	String	Executor resource size of the Spark job
JobExecutorNums	Integer	Number of Spark job executors
JobMaxAttempts	Integer	Maximum number of retries of the Spark flow task
JobCreator	String	Spark job creator
JobCreateTime	Integer	Spark job creation time
JobUpdateTime	Integer	Spark job update time
CurrentTaskId	String	Last task ID of the Spark job
JobStatus	Integer	Last status of the Spark job
StreamingStat	StreamingStatistics	Note: This field may return null, indicating that no valid values can be obtained.
DataSource	String	Note: This field may return null, indicating that no valid values can be obtained.

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IsLocalPythonFiles	String	Note: This field may return null, indicating that no valid values can be obtained.
AppPythonFiles	String	Note: This field may return null, indicating that no valid values can be obtained.
IsLocalArchives	String	Note: This field may return null, indicating that no valid values can be obtained.
JobArchives	String	Note: This field may return null, indicating that no valid values can be obtained.
SparkImage	String	Note: This field may return null, indicating that no valid values can be obtained.
JobPythonFiles	String	Note: This field may return null, indicating that no valid values can be obtained.
TaskNum	Integer	Note: This field may return null, indicating that no valid values can be obtained.
DataEngineStatus	Integer	Note: This field may return null, indicating that no valid values can be obtained.
JobExecutorMaxNumbers	Integer	Note: This field may return null, indicating that no valid values can be obtained.
SparkImageVersion	String	Note: This field may return null, indicating that no valid values can be obtained.
SessionId	String	Note: This field may return null, indicating that no valid values can be obtained.
DataEngineClusterType	String	Note: This field may return null, indicating that no valid values can be obtained.
DataEngineImageVersion	String	Note: This field may return null, indicating that no valid values can be obtained.
IsInherit	Integer	Note: This field may return null, indicating that no valid values can be obtained.
IsSessionStarted	Boolean	Note: This field may return null, indicating that no valid values can be obtained.
EngineTypeDetail	String	Note: This field may return null, indicating that no valid values can be obtained.

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SparkMonitorMetrics

Spark monitoring metrics

Used by actions: DescribeSparkAppTasks, DescribeTasks.

Name	Type	Description
ShuffleWriteBytesCos	Integer	Note: This field may return null, indicating that no valid values can be obtained.
ShuffleWriteBytesTotal	Integer	Note: This field may return null, indicating that no valid values can be obtained.

SparkSessionBatchLog

Running logs of a Spark SQL batch job

Used by actions: DescribeSparkSessionBatchSqlLog.

Name	Type	Description
Step	String	The log step. Valid values: `BEG` , `CS` , `DS` , `DSS` , `DSF` , `FINF` , `RTO` , `CANCEL` , `CT` , `DT` , `DTS` , `DTF` , `FINT` , and `EXCE` . Note: This field may return null, indicating that no valid values can be obtained.
Time	String	Time. Note: This field may return null, indicating that no valid values can be obtained.
Message	String	The log message. Note: This field may return null, indicating that no valid values can be obtained.
Operate	Array of SparkSessionBatchLogOperate	The operation. Note: This field may return null, indicating that no valid values can be obtained.

SparkSessionBatchLogOperate

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Operation information in the logs of a Spark SQL batch job

Used by actions: DescribeSparkSessionBatchSqlLog.

Name	Type	Description
Text	String	The operation message. Note: This field may return null, indicating that no valid values can be obtained.
Operate	String	The operation type. Valid values: `COPY` , `LOG` , `UI` , `RESULT` , `List` , and `TAB` . Note: This field may return null, indicating that no valid values can be obtained.
Supplement	Array of KVPair	Additional information, such as taskid, sessionid, and sparkui. Note: This field may return null, indicating that no valid values can be obtained.

StatementInformation

Statement information

Used by actions: CreateSparkSessionBatchSQL.

Name	Type	Description
TaskId	String	Unique ID of the SQL task Note: This field may return null, indicating that no valid values can be obtained.
SQL	String	SQL content Note: This field may return null, indicating that no valid values can be obtained.

StatisticInfo

Task statistics information.

Used by actions: DescribeJob, DescribeJobs, DescribeTaskStatistics.

Name	Type	Required	Description
TaskId	String	No	Task ID Note: This field may return null, indicating that no valid values can be obtained.
TotalProcessedBytes	Integer	No	Amount of data scanned

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			Note: This field may return null, indicating that no valid values can be obtained.
UsedTime	Integer	No	Calculation time: ms Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Integer	No	Creation Time Note: This field may return null, indicating that no valid values can be obtained.
EndTime	Integer	No	Task end time Note: This field may return null, indicating that no valid values can be obtained.
StartTime	Integer	No	Task start time Note: This field may return null, indicating that no valid values can be obtained.
RowsAffect	Integer	No	Number of rows affected Note: This field may return null, indicating that no valid values can be obtained.
TotalTime	Integer	No	Task duration Note: This field may return null, indicating that no valid values can be obtained.

StreamingStatistics

Statistics of the Spark flow task

Used by actions: DescribeSparkAppJob, DescribeSparkAppJobs.

Name	Type	Description
StartTime	String	Task start time
Receivers	Integer	Number of data receivers
NumActiveReceivers	Integer	Number of receivers in service
NumInactiveReceivers	Integer	Number of inactive receivers
NumActiveBatches	Integer	Number of running batches
NumRetainedCompletedBatches	Integer	Number of batches to be processed

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NumTotalCompletedBatches	Integer	Number of completed batches
AverageInputRate	Float	Average input speed
AverageSchedulingDelay	Float	Average queue time
AverageProcessingTime	Float	Average processing time
AverageTotalDelay	Float	Average latency

TColumn

Table field information

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql.

Name	Type	Required	Description
Name	String	Yes	Field name Note: This field may return null, indicating that no valid values can be obtained.
Type	String	Yes	Field type Note: This field may return null, indicating that no valid values can be obtained.
Comment	String	No	Field description Note: This field may return null, indicating that no valid values can be obtained.
Default	String	No	Field default values Note: This field may return null, indicating that no valid values can be obtained.
NotNull	Boolean	No	Is the field non-empty? Note: This field may return null, indicating that no valid values can be obtained.
Precision	Integer	No	Indicate the length of the entire numeric with a value of 1-38 Note: This field may return null, indicating that no valid values can be obtained.
Scale	Integer	No	Indicates the length of the decimal part. Scale is smaller than Precision.

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			Note: This field may return null, indicating that no valid values can be obtained.
Position	Integer	No	Field position: Fields with smaller values need to be placed first. Note: This field may return null, indicating that no valid values can be obtained.
IsPartition	Boolean	No	Whether it is a partition field Note: This field may return null, indicating that no valid values can be obtained.

TPartition

Table partition information

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql.

Name	Type	Required	Description
Name	String	Yes	The field name.
Type	String	No	The field type.
Comment	String	No	The field description.
PartitionType	String	No	The partition type.
PartitionFormat	String	No	The partition format.
PartitionDot	Integer	No	The separator count of the partition conversion policy.
Transform	String	No	The partition conversion policy.
TransformArgs	Array of String	No	The policy parameters.

TableBaseInfo

Table configurations

Used by actions: CreateDLCTable, CreateInternalTable, DescribeDLCTable, DescribeDLCTableList, GenerateCreateMangedTableSql.

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Name	Type	Required	Description
DatabaseName	String	Yes	The database name.
TableName	String	Yes	The table name.
DatasourceConnectionName	String	No	The data source name. Note: This field may return null, indicating that no valid values can be obtained.
TableComment	String	No	The table remarks. Note: This field may return null, indicating that no valid values can be obtained.
Type	String	No	The specific type: `table` or `view`. Note: This field may return null, indicating that no valid values can be obtained.
TableFormat	String	No	The data format type, such as `hive` and `iceberg`. Note: This field may return null, indicating that no valid values can be obtained.
UserAlias	String	No	The table creator name. Note: This field may return null, indicating that no valid values can be obtained.
UserSubUin	String	No	The table creator ID. Note: This field may return null, indicating that no valid values can be obtained.
SmartPolicy	SmartPolicy	No	Smart data governance configuration items Note: This field may return null, indicating that no valid values can be obtained.

TagInfo

Tag pair info

Used by actions: CreateDataEngine, DescribeDataEngine.

Name	Type	Required	Description
TagKey	String	No	The tag key. Note: This field may return null, indicating that no valid values can be

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			obtained.
TagValue	String	No	The tag value. Note: This field may return null, indicating that no valid values can be obtained.

Task

Task type, such as SQL query.

Used by actions: CreateTask.

Name	Type	Required	Description
SQLTask	SQLTask	No	SQL query task
SparkSQLTask	SQLTask	No	Spark SQL query task

TaskResponseInfo

The task instance.

Used by actions: DescribeSparkAppTasks, DescribeTasks.

Name	Type	Description
DatabaseName	String	Database name of the task
DataAmount	Integer	Data volume of the task
Id	String	Task ID
UsedTime	Integer	The compute time in ms.
OutputPath	String	Task output path
CreateTime	String	Task creation time
State	Integer	The task status. Valid values: `0` (initializing), `1` (executing), `2` (executed), `3` (writing data), `4` (queuing), `-1` (failed), and `-3` (canceled).
SQLType	String	SQL statement type of the task, such as DDL and DML.

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SQL	String	SQL statement of the task
ResultExpired	Boolean	Whether the result has expired
RowAffectInfo	String	Number of affected data rows
DataSet	String	Note: This field may return null, indicating that no valid values can be obtained.
Error	String	Failure information, such as `errorMessage`. This field has been disused.
Percentage	Integer	Task progress (%)
OutputMessage	String	Output information of task execution
TaskType	String	Type of the engine executing the SQL statement
ProgressDetail	String	Note: This field may return null, indicating that no valid values can be obtained.
UpdateTime	String	Note: This field may return null, indicating that no valid values can be obtained.
DataEngineId	String	Note: This field may return null, indicating that no valid values can be obtained.
OperateUin	String	Note: This field may return null, indicating that no valid values can be obtained.
DataEngineName	String	Note: This field may return null, indicating that no valid values can be obtained.
InputType	String	Note: This field may return null, indicating that no valid values can be obtained.
InputConf	String	Note: This field may return null, indicating that no valid values can be obtained.
DataNumber	Integer	Note: This field may return null, indicating that no valid values can be obtained.
CanDownload	Boolean	Note: This field may return null, indicating that no valid values can be obtained.
UserAlias	String	Note: This field may return null, indicating that no valid values can be obtained.
SparkJobName	String	Note: This field may return null, indicating that no valid

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		values can be obtained.
SparkJobId	String	Note: This field may return null, indicating that no valid values can be obtained.
SparkJobFile	String	Note: This field may return null, indicating that no valid values can be obtained.
UiUrl	String	Note: This field may return null, indicating that no valid values can be obtained.
TotalTime	Integer	Note: This field may return null, indicating that no valid values can be obtained.
CmdArgs	String	Note: This field may return null, indicating that no valid values can be obtained.
ImageVersion	String	Note: This field may return null, indicating that no valid values can be obtained.
DriverSize	String	Note: This field may return null, indicating that no valid values can be obtained.
ExecutorSize	String	Note: This field may return null, indicating that no valid values can be obtained.
ExecutorNums	Integer	Note: This field may return null, indicating that no valid values can be obtained.
ExecutorMaxNumbers	Integer	Note: This field may return null, indicating that no valid values can be obtained.
CommonMetrics	CommonMetrics	Note: This field may return null, indicating that no valid values can be obtained.
SparkMonitorMetrics	SparkMonitorMetrics	Note: This field may return null, indicating that no valid values can be obtained.
PrestoMonitorMetrics	PrestoMonitorMetrics	Note: This field may return null, indicating that no valid values can be obtained.
ResultFormat	String	Note: This field may return null, indicating that no valid values can be obtained.
EngineTypeDetail	String	Note: This field may return null, indicating that no valid values can be obtained.
ResourceGroupName	String	Note: This field may return null, indicating that no valid

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		values can be obtained.

TaskResultInfo

The task result information.

Used by actions: DescribeTaskResult.

Name	Type	Description
TaskId	String	Unique task ID
DatasourceConnectionName	String	Name of the default selected data source when the current job is executed Note: This field may return null, indicating that no valid values can be obtained.
DatabaseName	String	Name of the default selected database when the current job is executed Note: This field may return null, indicating that no valid values can be obtained.
SQL	String	The currently executed SQL statement. Each task contains one SQL statement.
SQLType	String	Type of the executed task. Valid values: `DDL` , `DML` , `DQL` .
State	Integer	u200cThe current task status. Valid values: `0` (initializing), `1` (executing), `2` (executed), `3` (writing data), `4` (queuing), u200c `-1` (failed), and `-3` (canceled). Only when the task is successfully executed, a task execution result will be returned.
DataAmount	Integer	Amount of the data scanned in bytes
UsedTime	Integer	The compute time in ms.
OutputPath	String	Address of the COS bucket for storing the task result
CreateTime	String	Task creation timestamp
OutputMessage	String	Task execution information. `success` will be returned if the task succeeds; otherwise, the failure cause will be returned.
RowAffectInfo	String	Number of affected rows
ResultSchema	Array	Schema information of the result

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	of Column	Note: This field may return null, indicating that no valid values can be obtained.
ResultSet	String	Result information. After it is unescaped, each element of the outer array is a data row. Note: This field may return null, indicating that no valid values can be obtained.
NextToken	String	Pagination information. If there is no more result data, `nextToken` will be empty.
Percentage	Integer	Task progress (%)
ProgressDetail	String	Task progress details
DisplayFormat	String	Console display format. Valid values: `table` , `text` .
TotalTime	Integer	The task time in ms.
QueryResultTime	Float	Time consumed to get results Note: This field may return null, indicating that no valid values can be obtained.

TasksInfo

Collection of tasks executed sequentially in batches

Used by actions: CreateTasks.

Name	Type	Required	Description
TaskType	String	Yes	Task type. Valid values: `SQLTask` (SQL query task), `SparkSQLTask` (Spark SQL query task).
FailureTolerance	String	Yes	Fault tolerance policy. `Proceed` : continues to execute subsequent tasks after the current task fails or is canceled. `Terminate` : terminates the execution of subsequent tasks after the current task fails or is canceled, and marks all subsequent tasks as canceled.
SQL	String	Yes	Base64-encrypted SQL statements separated by ";". Up to 50 tasks can be submitted at a time, and they will be executed strictly in sequence.
Config	Array	No	Configuration information of the task. Currently, only

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	of KVPair		`SparkSQLTask` tasks are supported.
Params	Array of KVPair	No	User-defined parameters of the task

TasksOverview

The task overview.

Used by actions: DescribeTasks.

Name	Type	Description
TaskQueuedCount	Integer	The number of tasks in queue.
TaskInitCount	Integer	The number of initialized tasks.
TaskRunningCount	Integer	The number of tasks in progress.
TotalTaskCount	Integer	The total number of tasks in this time range.

UserDetailInfo

Detailed user information

Used by actions: DescribeUserInfo.

Name	Type	Description
UserId	String	User ID Note: This field may return null, indicating that no valid values can be obtained.
Type	String	Types of returned information. Group: returned information about the working group where the current user is; DataAuth: returned information about the current user's data permission; EngineAuth: returned information about the current user's engine permission Note: This field may return null, indicating that no valid values can be obtained.
UserType	String	Types of users. ADMIN: administrators; COMMON: general users

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		Note: This field may return null, indicating that no valid values can be obtained.
UserDescription	String	User description Note: This field may return null, indicating that no valid values can be obtained.
DataPolicyInfo	Policys	Collection of data permission information Note: This field may return null, indicating that no valid values can be obtained.
EnginePolicyInfo	Policys	Collection of engine permissions Note: This field may return null, indicating that no valid values can be obtained.
WorkGroupInfo	WorkGroups	Information about collections of working groups bound to the user Note: This field may return null, indicating that no valid values can be obtained.
UserAlias	String	User alias Note: This field may return null, indicating that no valid values can be obtained.
RowFilterInfo	Policys	Collection of filtered rows Note: This field may return null, indicating that no valid values can be obtained.

UserIdSetOfWorkGroupId

Collection of IDs of users bound to the same working group

Used by actions: AddUsersToWorkGroup, DeleteUsersFromWorkGroup.

Name	Type	Required	Description
WorkGroupId	Integer	Yes	Working group IDs
UserIds	Array of String	Yes	User ID which matches the Uin on the CAM side

UserInfo

Information about the authorized user

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Used by actions: DescribeUsers.

Name	Type	Description
UserId	String	User ID, which is the same as the sub-user UIN
UserDescription	String	User description, which can make it easy to identify different users. Note: This field may return null, indicating that no valid values can be obtained.
PolicySet	Array of Policy	Collection of permissions solely bound to users Note: This field may return null, indicating that no valid values can be obtained.
Creator	String	Creator of the current user
CreateTime	String	Creation time, and the example of the format is at 16:19:32 on Jul 28, 2021.
WorkGroupSet	Array of WorkGroupMessage	Collection of associated working groups Note: This field may return null, indicating that no valid values can be obtained.
IsOwner	Boolean	Whether it is the root account Note: This field may return null, indicating that no valid values can be obtained.
UserType	String	Types of users. ADMIN: administrators; COMMON: general users Note: This field may return null, indicating that no valid values can be obtained.
UserAlias	String	User alias Note: This field may return null, indicating that no valid values can be obtained.

UserMessage

Partial information of the user

Used by actions: DescribeWorkGroupInfo, DescribeWorkGroups.

Name	Type	Description

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UserId	String	User Id which matches the sub-user UIN on the CAM side
UserDescription	String	User description Note: The returned value of this field may be null, indicating that no valid value is obtained.
Creator	String	The creator of the current user
CreateTime	String	The creation time of the current user, e.g. 16:19:32, July 28, 2021
UserAlias	String	User alias

UserRole

User role

Used by actions: DescribeUserRoles.

Name	Type	Description
RoleId	Integer	The role ID.
AppId	String	The user's app ID.
Uin	String	The user ID.
Arn	String	The role permission.
ModifyTime	Integer	The last modified timestamp.
Desc	String	The role description.
RoleName	String	Note: This field may return null, indicating that no valid values can be obtained.
Creator	String	Note: This field may return null, indicating that no valid values can be obtained.
CosPermissionList	Array of CosPermission	Note: This field may return null, indicating that no valid values can be obtained.
PermissionJson	String	Note: This field may return null, indicating that no valid values can be obtained.

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Users

Collection of user information

Used by actions: DescribeWorkGroupInfo.

Name	Type	Description
UserSet	Array of UserMessage	Collection of user information Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total users Note: This field may return null, indicating that no valid values can be obtained.

VpcCidrBlock

VPC subnet information

Used by actions: DescribeOtherCHDFSBindingList.

Name	Type	Required	Description
CidrId	String	No	Subnet ID Note: This field may return null, indicating that no valid values can be obtained.
CidrAddr	String	No	Subnet IP range Note: This field may return null, indicating that no valid values can be obtained.

VpcInfo

VPC information

Used by actions: CreateCHDFSBindingProduct, DeleteCHDFSBindingProduct.

Name	Type	Required	Description
VpcId	String	No	vpc Id Note: This field may return null, indicating that no valid values can

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			be obtained.
VpcCidrBlock	String	No	VPC subnet Note: This field may return null, indicating that no valid values can be obtained.
RuleId	Integer	No	Rule ID Note: This field may return null, indicating that no valid values can be obtained.
AccessGroupId	String	No	Permission group ID Note: This field may return null, indicating that no valid values can be obtained.

WorkGroupDetailInfo

Details about working groups

Used by actions: DescribeWorkGroupInfo.

Name	Type	Description
WorkGroupId	Integer	Working group ID Note: This field may return null, indicating that no valid values can be obtained.
WorkGroupName	String	Working group name Note: This field may return null, indicating that no valid values can be obtained.
Type	String	Types of information included. User: user information; DataAuth: data permissions; EngineAuth: engine permissions Note: This field may return null, indicating that no valid values can be obtained.
UserInfo	Users	Collection of users bound to working groups Note: This field may return null, indicating that no valid values can be obtained.
DataPolicyInfo	Policys	Collection of data permissions Note: This field may return null, indicating that no valid values can be obtained.
EnginePolicyInfo	Policys	Collection of engine permissions Note: This field may return null, indicating that no valid values can be

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		obtained.
WorkGroupDescription	String	Working group description Note: This field may return null, indicating that no valid values can be obtained.
RowFilterInfo	Policys	Collection of information about filtered rows Note: This field may return null, indicating that no valid values can be obtained.

WorkGroupIdSetOfUserId

Collections of the working groups bound to the same user

Used by actions: BindWorkGroupsToUser, UnbindWorkGroupsFromUser.

Name	Type	Required	Description
UserId	String	Yes	User ID, which matches Uin on the CAM side.
WorkGroupIds	Array of Integer	Yes	Collections of IDs of working groups

WorkGroupInfo

Working group information

Used by actions: DescribeWorkGroups.

Name	Type	Description
WorkGroupId	Integer	Unique ID of the working group that have been queried
WorkGroupName	String	Working group name
WorkGroupDescription	String	Working group description Note: This field may return null, indicating that no valid values can be obtained.
UserNum	Integer	Number of users associated with working groups
UserSet	Array of UserMessage	Collection of users associated with working groups Note: This field may return null, indicating that no valid values can be obtained.

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PolicySet	Array of Policy	Collections of permissions bound to working groups Note: This field may return null, indicating that no valid values can be obtained.
Creator	String	Creators of working groups
CreateTime	String	The creation time of the working group, e.g. at 16:19:32 on Jul 28, 2021

WorkGroupMessage

Partial information about working groups

Used by actions: DescribeUserInfo, DescribeUsers.

Name	Type	Description
WorkGroupId	Integer	Unique ID of the working group
WorkGroupName	String	Working group name
WorkGroupDescription	String	Working group description Note: This field may return null, indicating that no valid values can be obtained.
Creator	String	Creator
CreateTime	String	The creation time of the working group, e.g. at 16:19:32 on Jul 28, 2021

WorkGroups

Collections of working groups

Used by actions: DescribeUserInfo.

Name	Type	Description
WorkGroupSet	Array of WorkGroupMessage	Collection of working group information Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total working groups Note: This field may return null, indicating that no valid values can be obtained.

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Error Codes

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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 si
gnature 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

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	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 CAM documentation.
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.
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

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	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.AbnormalOrderStatus	Order status exception.
FailedOperation.AnotherCreateProcessRunning	Another data source is being created.
FailedOperation.AnotherProcessRunning	Another operation is in progress. Please try again la
FailedOperation.AnotherRequestProcessing	Another request is being processed. Try again later.
FailedOperation.BalanceNotEnough	Insufficient account balance.
FailedOperation.BillingSystemError	Billing system exception.
FailedOperation.BindTooManyTags	The number of tags set reached the limit.
FailedOperation.CreateDataEngineFailed	Failed to create the engine.

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FailedOperation.DeleteDataEngineFailed	The deletion of the data engine failed.
FailedOperation.DeliverGoodsFailed	Failed to deliver the goods.
FailedOperation.DuplicateTagKey	Duplicate tag keys.
FailedOperation.FeeDeductionFailed	Deduction failed.
FailedOperation.GetPolicyFailed	Obtaining the authentication policy failed.
FailedOperation.GetProductInformationFailed	Failed to get product information.
FailedOperation.GetUserInfoFailed	Obtaining user information failed. Please try again o contact us.
FailedOperation.GetWorkGroupInfoFailed	Obtaining working group information failed.
FailedOperation.GrantPolicyFailed	Authorization failed.
FailedOperation.HttpClientDoRequestFailed	The HTTP client request failed.
FailedOperation.IllegalResource	Invalid resources.
FailedOperation.IllegalTagKey	Invalid characters in the tag key.
FailedOperation.IllegalTagValue	Invalid characters in the tag value.
FailedOperation.InquirePriceFailed	Price query failed.
FailedOperation.ModifyInstanceFailed	Failed to scale up/down the instance.
FailedOperation.NoPermission	No permission.
FailedOperation.NoPermissionToUseTheDataEngine	The user does not have permission to specify the er
FailedOperation.NoRealNameAuthentication	Unverified account.
FailedOperation.NumberExceedLimit	Reached the allowed limit of engines.
FailedOperation.ParameterValidationFailed	Failed to verify parameters.
FailedOperation.RefundDepositFailed	Refunding failed.
FailedOperation.RevokePolicyFailed	Canceling authorization failed.
FailedOperation.SQLTaskParseFailed	Syntax parsing failed. Please verify and try again.
FailedOperation.TagAlreadyAttached	A tag key of the same name has been set for the res
FailedOperation.TagKeyTooLong	The tag key exceeded the length limit.

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FailedOperation.TagNotExist	The tag does not exist.
FailedOperation.TagValueTooLong	The tag value exceeded the length limit.
FailedOperation.TooManyResources	The number of resources reached the limit.
FailedOperation.TooManyTags	The number of tags reached the limit.
InternalError.DBError	A database error occurred.
InternalError.InternalSystemException	The business system is abnormal. Please try again c contact us.
InvalidParameter.BatchSQLCustomKeyNotUnique	The custom primary key of the specified interactive S unique.
InvalidParameter.DataEngineClusterTypeNotMatch	The specified cluster resource type does not match. spark_cu (corresponding to Spark cluster) and pres (corresponding to Presto cluster) are supported.
InvalidParameter.DataEngineConfigPairsDuplicate	The specified cluster parameter already exists
InvalidParameter.DataEngineExecTypeNotMatch	The parameter ExecType passing to the specified cl Currently, only SQL or BATCH is supported.
InvalidParameter.DataEngineImageOperateNotMatch	The specified cluster image operation does not matc InitImage/UpgradeImage/SwitchImage/RollbackIma is supported.
InvalidParameter.DataEngineModeNotMatch	The specified cluster billing mode does not match. C supports 1: pay-as-you-go and 2: annual and month
InvalidParameter.DataEngineOnlySupportSQL	The current task only supports SQL engine operatio
InvalidParameter.DataEngineOnlySupportSparkBatch	The current task only supports the Spark batch job p
InvalidParameter.DataEnginePayModeTypeNotMatch	The specified cluster payment type does not match. supports 0: postpaid and 1: prepaid.
InvalidParameter.DataEngineSizeNotMatch	The specified cluster specifications are not compliar
InvalidParameter.DataEngineTypeNotMatch	The specified cluster type does not match. Currently is supported.
InvalidParameter.DuplicateDataEngineName	Duplicate engine name.
InvalidParameter.DuplicateGroupName	The working group name is duplicated.

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InvalidParameter.DuplicateUserName	The username is duplicated.
InvalidParameter.FiltersValuesNumberOutOfLimit	The number of specified Filter.Values parameters ex Currently, it should be less than or equal to 50.
InvalidParameter.ImageClusterParametersFormatNotJson	The specified cluster image Cluster parameter forma
InvalidParameter.ImageEngineTypeNotMatch	The specified engine type does not match. Currently PrestoSQL, and SparkBatch are supported.
InvalidParameter.ImageIsPublicNotMatch	The specified isPublic does not match. Currently, it c public and 2: private.
InvalidParameter.ImageParameterNotFound	The specified cluster image parameter does not exis
InvalidParameter.ImageParameterSubmitMethodNotMatch	The specified cluster image ParameterSubmitMetho Currently, only User and BackGround are supportec
InvalidParameter.ImageParameterTypeNotMatch	The specified cluster image ParameterType does no it only supports 1: session; 2: common; 3: cluster.
InvalidParameter.ImageSessionParametersFormatNotJson	The specified cluster image Session parameter form
InvalidParameter.ImageStateNotMatch	The specified state does not match. Currently, it only initializing, 2: online, 3: offline.
InvalidParameter.ImageUserRecordsTypeNotMatch	The specified cluster image UserRecords does not r only supports: 1: parentVersion; 2: childVersion; 3: p
InvalidParameter.InstanceInProcess	Instances are in other processes.
InvalidParameter.InvalidAccessPolicy	The access policy is invalid.
InvalidParameter.InvalidAppFileFormat	The specified Spark task package file format does n only .jar or .py is supported.
InvalidParameter.InvalidColumnNameLength	The field name is set incorrectly. The field name mus equal to 128 bytes.
InvalidParameter.InvalidColumnNumber	The number of fields is set incorrectly. The number c less than or equal to 4096.
InvalidParameter.InvalidConfigKeyNotFound	The specified task parameter Key value does not ex
InvalidParameter.InvalidConfigValueLengthOutLimit	The length of the specified task parameter Value exc
InvalidParameter.InvalidConfigValueRegexpNotMatch	The specified task parameter Value does not confor
InvalidParameter.InvalidDataEngineCidrFormat	The specified cluster CIDR format does not match, a

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	style is 192.0.2.1/24.
InvalidParameter.InvalidDataEngineConfigPairs	The specified cluster parameters are invalid. Please again.
InvalidParameter.InvalidDataEngineDescription	The engine description information is invalid.
InvalidParameter.InvalidDataEngineMode	Invalid data engine mode.
InvalidParameter.InvalidDataEngineName	The data engine name is invalid.
InvalidParameter.InvalidDataEngineSpecs	Invalid data engine spec.
InvalidParameter.InvalidDataEngineTimeSpan	The usage duration of the specified cluster resource 3,600 as a fixed figure; prepaid: Fill in a figure equal which means purchasing resources for one month. T is no more than 120. The default is 3,600.
InvalidParameter.InvalidDataEngineTimeUnit	The unit of the usage duration of the specified cluste match; postpaid: h; prepaid: m. The default is h.
InvalidParameter.InvalidDecimalType	The DecimalType setting is invalid. Precision must b equal to Scale, and Precision must be less than 38.
InvalidParameter.InvalidDefaultDataEngine	The default data engine parameters are invalid.
InvalidParameter.InvalidDescription	The description information is invalid.
InvalidParameter.InvalidDriverSize	The current DriverSize specification only supports small/medium/large/xlarge/m.small/m.medium/m.lar
InvalidParameter.InvalidDynamicAllocationMaxExecutors	The specified dynamic number of executors must be maximum value.
InvalidParameter.InvalidEngineExecType	The engine execution type is invalid.
InvalidParameter.InvalidEngineType	The engine type is invalid.
InvalidParameter.InvalidExecutorSize	The current ExecutorSize specification only support small/medium/large/xlarge/m.small/m.medium/m.lar
InvalidParameter.InvalidFailureTolerance	The task fault tolerance type is wrong. Currently, onl Proceed/Terminate is supported.
InvalidParameter.InvalidFileCompressionFormat	The specified file compression format is not complia .tar.gz/.tar/.tgz is supported.
InvalidParameter.InvalidFilePathFormat	The specified file path format is not compliant. Curre lakefs:// is supported.

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InvalidParameter.InvalidFilterKey	The filter condition is not supported.
InvalidParameter.InvalidFilterLength	The number of filter conditions is invalid. When filter specified, the number of filter conditions should be g to 1 and less than or equal to 5.
InvalidParameter.InvalidGroupId	The working group ID is invalid.
InvalidParameter.InvalidInfoType	The requested message type is invalid.
InvalidParameter.InvalidMaxResults	Invalid maximum number of results.
InvalidParameter.InvalidMinClusters	The minimum number of clusters is invalid.
InvalidParameter.InvalidOffset	The Offset value is invalid.
InvalidParameter.InvalidPayMode	Invalid billing mode.
InvalidParameter.InvalidRoleArn	The CAM role arn is invalid.
InvalidParameter.InvalidSQL	SQL parsing failed.
InvalidParameter.InvalidSQLConfigSQL	Parameter verification failed. Please adjust the para ticket to contact us.
InvalidParameter.InvalidSQLNum	The number of executed SQL statements is incorrec SQL statements must be greater than or equal to 1 a equal to 50.
InvalidParameter.InvalidSQLTaskMaxResults	The number of SQL task results obtained at a time r than 0 and less than 1,000.
InvalidParameter.InvalidSessionKindType	Currently, types supported by Session only include spark/pyspark/sparkr/sql.
InvalidParameter.InvalidSortByType	The sorting type is not supported.
InvalidParameter.InvalidSorting	Invalid Sorting
InvalidParameter.InvalidSparkAppParam	The `SparkAppParam` is invalid.
InvalidParameter.InvalidSparkConfigFormat	The specified Spark job configuration format is abnc spark.network.timeout=120s.
InvalidParameter.InvalidStatementKindType	Currently, Statement only supports the type of sql.
InvalidParameter.InvalidStoreLocation	The storage location is incorrect.

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InvalidParameter.InvalidTableNameLength	The table name is set incorrectly. The length of the t less than or equal to 128 bytes.
InvalidParameter.InvalidTaskId	The `taskid` is invalid.
InvalidParameter.InvalidTaskType	The TaskType is incorrect. The Spark engine task ty SparkSQLTask, and the Presto engine task type is
InvalidParameter.InvalidTcrSparkImageFormat	The specified TCR Spark image format does not ma for reference is my-image/ndf/python/latest.
InvalidParameter.InvalidTimeFormat	The specified time format is not compliant. Currently dd HH:MM:SS is supported.
InvalidParameter.InvalidTimeParameter	The date parameters are abnormal. For example, th than the start time.
InvalidParameter.InvalidTimeSpan	Invalid billing period.
InvalidParameter.InvalidTimeUnit	Invalid unit of billing period.
InvalidParameter.InvalidUserAlias	The username is invalid.
InvalidParameter.InvalidUserName	The username is invalid.
InvalidParameter.InvalidUserType	The user type is invalid.
InvalidParameter.InvalidWhiteListKey	There is an error in getting an allowlist. Please try ag ticket to contact us.
InvalidParameter.InvalidWorkGroupName	The working group name is invalid.
InvalidParameter.JobNotFound	Job not found.
InvalidParameter.MaxResultOnlySupportHundred	You are currently only allowed to view 100 results. If an adjustment, please contact us.
InvalidParameter.NumberOfSQLExceedsTheLimit	The number of SQL statements submitted is limited
InvalidParameter.ParameterBase64DecodeFailed	Base64 parsing of the specified parameter failed.
InvalidParameter.ParameterNotFoundOrBeNone	The parameter is not found or empty.
InvalidParameter.SQLBase64DecodeFail	Base64 parsing of the SQL script failed.
InvalidParameter.SQLParameterPreprocessingFailed	SQL parameter preprocessing failed.
InvalidParameter.SQLTaskFiltersKeyTypeNotMath	The specified Filter.Key does not match. Currently, c sql-keyword/task-kind/task-operator/batch-id/sessic

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	supported.
InvalidParameter.SQLTaskNotFound	The specified SQL task does not exist.
InvalidParameter.SQLTaskSortByTypeNotMatch	The SortBy type specified in the SQL task does not only create-time/data-amount/used-time/resource-u
InvalidParameter.SparkJobFiltersKeyTypeNotMath	The specified Spark task Filter.Key does not match. spark-app-type/user-name/spark-job-name/spark-jo supported.
InvalidParameter.SparkJobIsInheritTypeNotMatch	The specified Spark task IsInherit type does not mat only supports: 0: Inherit; 1: Do not inherit.
InvalidParameter.SparkJobNotFound	The specified Spark task does not exist.
InvalidParameter.SparkJobNotUnique	The specified Spark task already exists.
InvalidParameter.SparkJobOnlySupportSparkBatchEngine	Spark tasks can only be run using the Spark job eng
InvalidParameter.SparkJobRoleArnNotFound	The specified Spark task RoleArn does not exist.
InvalidParameter.SparkJobSortByTypeNotMatch	The specified Spark task sorting type does not matc create-time/update-time/user-name/data-engine-nar
InvalidParameter.TaskAlreadyFinished	The task has ended and cannot be canceled.
InvalidParameter.TaskNotFound	The task does not exist.
InvalidParameter.TaskStateTypeNotMath	The specified task status does not match. Currently, initializing, 1: running, 2: successful, 3: writing data, failed, and -3: deleted.
InvalidParameter.VpcCidrFormatError	Invalid VPC CIDR format.
OperationDenied	Operation denied.
ResourceInUse.UnfinishedSQLs	Some SQL tasks have not yet been completed.
ResourceInsufficient.SparkJobInsufficientResources	The specified spark job resources are insufficient. Pl driver/executor specifications.
ResourceNotFound.BatchSQLTaskNotFound	The specified interactive SQL task does not exist.
ResourceNotFound.BatchSQLTaskNotUnique	The specified interactive SQL task is not unique.
ResourceNotFound.DataEngineConfigInstanceNotFound	The specified cluster configuration instance does no
ResourceNotFound.DataEngineConfigInstanceNotUnique	The specified cluster configuration instance already

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ResourceNotFound.DataEngineNotActivity	The specified cluster is not running.
ResourceNotFound.DataEngineNotFound	The specified engine does not exist.
ResourceNotFound.DataEngineNotMultiVersion	The specified cluster is not a multi-version type and this operation.
ResourceNotFound.DataEngineNotRunning	The specified engine is not running.
ResourceNotFound.DataEngineNotUnique	The specified engine already exists.
ResourceNotFound.DataEngineTypeOnlySupportBatch	The specified cluster is not a Spark batch job type a support this operation.
ResourceNotFound.DatasourceNotFound	The data source connection does not exist. Please t ticket to contact us.
ResourceNotFound.DefaultDataEngineNotFound	No default engine can be found.
ResourceNotFound.ImageSessionConfigNotFound	The specified cluster image Session configuration d
ResourceNotFound.ImageSessionConfigNotUnique	The specified cluster image Session configuration al
ResourceNotFound.ImageVersionNotActivity	The specified cluster image is not activated.
ResourceNotFound.ImageVersionNotFound	The specified cluster image version does not exist.
ResourceNotFound.ImageVersionNotUnique	The specified cluster image version already exists.
ResourceNotFound.ResourceUsageOutOfLimit	The specified task resources exceed the limit of the resources of the cluster. Please try again after adjus
ResourceNotFound.ResultOutputPathNotFound	The result path was not found.
ResourceNotFound.ResultSavePathNotFound	Obtaining the result storage path failed. Please go to Data Exploration page for settings.
ResourceNotFound.RoleArnResourceNotFound	The specified RoleArn does not exist.
ResourceNotFound.SessionInsufficientResources	There are currently no resources to create a sessior later or use an annual or monthly subscription cluste
ResourceNotFound.SessionNotFound	The session does not exist.
ResourceNotFound.SessionStateDead	The session has expired.
ResourceNotFound.ShuffleDirNotFound	The Spark Shuffle storage path cannot be found. Ple Console -> Data Exploration page -> Storage Config

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ResourceNotFound.TaskAlreadyFailed	The task has failed.
ResourceNotFound.TaskAlreadyFinished	The task has been completed.
ResourceNotFound.WarehouseDirNotFound	The Warehouse storage path cannot be found. Plea Console->Data Exploration page->Storage Configur
ResourceUnavailable.BalanceInsufficient	The account balance is insufficient to run the SQL ta
ResourceUnavailable.WhiteListFunction	Currently, the allowlist function is available. Please c activate it.
ResourcesSoldOut	The resource is sold out.
ResourcesSoldOut.UnauthorizedGrantPolicy	There is no permission authorization policy.
ResourcesSoldOut.UnauthorizedOperation	There is no permission to operate.
ResourcesSoldOut.UnauthorizedRevokePolicy	There is no permission to reclaim permissions.
UnauthorizedOperation.AddUsersToWorkgroup	Sub-users are not administrators and cannot add us groups.
UnauthorizedOperation.BindWorkgroupsToUser	Sub-users are not administrators and cannot bind w users.
UnauthorizedOperation.CreateWorkgroup	Sub-users are not administrators and cannot create
UnauthorizedOperation.DeleteComputingEngine	Sub-users cannot delete a computing engine.
UnauthorizedOperation.DeleteUser	Sub-users are not administrators and cannot delete
UnauthorizedOperation.DeleteUsersFromWorkgroup	Sub-users are not administrators and cannot unbinc working groups.
UnauthorizedOperation.DeleteWorkgroup	Sub-users are not administrators and cannot delete
UnauthorizedOperation.GrantPolicy	Sub-users do not have the authority to grant specific
UnauthorizedOperation.ModifyComputingEngine	Sub-users cannot modify engine configuration.
UnauthorizedOperation.ModifyUserInfo	Sub-users are not administrators and cannot modify
UnauthorizedOperation.ModifyUserType	Sub-users are not administrators and cannot modify
UnauthorizedOperation.ModifyWorkgroupInfo	Sub-users are not administrators and cannot modify information.
UnauthorizedOperation.MonitorComputingEngine	Sub-users do not have the permission to view engin

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UnauthorizedOperation.NoPaymentAuthority	No permission to pay.
UnauthorizedOperation.OperateComputingEngine	Unauthorized engine operation by a sub-user.
UnauthorizedOperation.ProhibitedOperationAdmin	Prohibited operation admin
UnauthorizedOperation.RenewComputingEngine	Sub-users have no authority to renew the computing
UnauthorizedOperation.RevokePolicy	Sub-users do not have the authority to revoke specif
UnauthorizedOperation.UnbindWorkgroupsFromUser	Sub-users are not administrators and cannot unbind and users.
UnauthorizedOperation.UseComputingEngine	The sub-user does not have permission to use the c
UnauthorizedOperation.UserNotExist	The sub-user does not exist.
UnsupportedOperation.ModifyOwnerUnsupported	The root account cannot be modified.
UnsupportedOperation.UnsupportedFileType	The current file format is not supported. Currently, it json/csv/avro/orc/parquet.

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