# TDMQ for Apache Pulsar

# 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
  - Message APIs
    - AcknowledgeMessage
    - SendMessages
    - SendBatchMessages
    - ReceiveMessage
  - Cluster APIs
    - DescribePulsarProInstanceDetail
    - DescribePulsarProInstances
    - DescribeRabbitMQNodeList
    - DescribeClusters
    - DescribeClusterDetail
    - DeleteCluster
    - ModifyCluster
    - DescribeBindClusters
    - CreateCluster
  - Namespace APIs
    - ModifyEnvironmentAttributes
    - DescribeEnvironments
    - DescribeEnvironmentAttributes
    - DeleteEnvironments
    - CreateEnvironment
    - DescribeEnvironmentRoles
    - DeleteRocketMQNamespace
  - Topic APIs
    - ModifyTopic


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- DescribeTopics
- DeleteTopics
- CreateTopic

CMQ Message APIs

- SendCmqMsg
- PublishCmqMsg
- ClearCmqSubscriptionFilterTags
- ClearCmqQueue

CMQ Management APIs

- UnbindCmqDeadLetter
- RewindCmqQueue
- ModifyCmqTopicAttribute
- ModifyCmqSubscriptionAttribute
- ModifyCmqQueueAttribute
- DescribeCmqTopics
- DescribeCmqTopicDetail
- DescribeCmqSubscriptionDetail
- DescribeCmqQueues
- DescribeCmqQueueDetail
- DeleteCmqTopic
- DeleteCmqSubscribe
- DeleteCmqQueue
- CreateCmqTopic
- CreateCmqSubscribe
- CreateCmqQueue

Other APIs

- SendRocketMQMessage
- DescribeBindVpcs
- SendMsg

Environment Role APIs

- ModifyRole
- ModifyEnvironmentRole
- DescribeRoles
- DeleteEnvironmentRoles
- CreateRole
- CreateEnvironmentRole
- DeleteRoles

TDMQ for RabbitMQ APIs

- CreateRabbitMQUser
- CreateRabbitMQVirtualHost
- DeleteRabbitMQUser
- DeleteRabbitMQVirtualHost
- DescribeRabbitMQUser
- DescribeRabbitMQVirtualHost
- ModifyRabbitMQUser
- ModifyRabbitMQVirtualHost
- CreateRabbitMQVipInstance
- DeleteRabbitMQVipInstance
- DescribeRabbitMQVipInstances

RocketMQ APIs

- DescribeRocketMQVipInstanceDetail
- DescribeRocketMQMsg
- ModifyRocketMQTopic
- ModifyRocketMQNamespace
- ModifyRocketMQGroup
- ModifyRocketMQCluster
- DescribeRocketMQTopics
- DescribeRocketMQNamespaces
- DescribeRocketMQGroups
- DescribeRocketMQClusters
- DescribeRocketMQCluster
- DeleteRocketMQTopic
- DeleteRocketMQGroup
- DeleteRocketMQCluster
- CreateRocketMQTopic
- CreateRocketMQNamespace
- CreateRocketMQGroup
- CreateRocketMQCluster

TDMQ for RocketMQ APIs

- ModifyRocketMQInstanceSpec
- DescribeRocketMQVipInstances

Production and Consumption APIs

- DescribeSubscriptions
- DeleteSubscriptions
- CreateSubscription
- ResetMsgSubOffsetByTimestamp

DescribePublishers
DescribePublisherSummary
ResetRocketMQConsumerOffSet
Data Types
Error Codes

# API Documentation History

Last updated：2024-11-27 16:57:11

## Release 17

Release time: 2023-08-09 14:39:40

Release updates:

Improvement to existing documentation.

New APIs:

- CreateRabbitMQUser
- CreateRabbitMQVirtualHost
- DeleteRabbitMQUser
- DeleteRabbitMQVipInstance
- DeleteRabbitMQVirtualHost
- DescribeRabbitMQUser
- DescribeRabbitMQVirtualHost
- DescribeRabbitMQVirtualHostList
- DescribeRocketMQMsg
- ModifyRabbitMQUser
- ModifyRabbitMQVirtualHost
- ModifyRocketMQInstanceSpec
- SendRocketMQMessage

Modified APIs:

- CreateEnvironment
  - New input parameters:AutoSubscriptionCreation
- CreateRocketMQNamespace
  - **Modified input parameters:** Ttl, RetentionTime
- CreateRole
  - New output parameters:EnvironmentRoleSets
- ModifyEnvironmentAttributes
  - New input parameters:AutoSubscriptionCreation

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- ModifyRocketMQCluster
  - New input parameters:PublicAccessEnabled
- ModifyRocketMQNamespace
  - New input parameters:PublicAccessEnabled
  - **Modified input parameters:** Ttl, RetentionTime

New data structures:

- EnvironmentRoleSet
- RabbitMQPrivateVirtualHost
- RabbitMQUser
- RabbitMQVirtualHostInfo
- RabbitMQVirtualHostStatistics
- RocketMQMessageTrack

Modified data structures:

- Environment
  - New members:AutoSubscriptionCreation
- PulsarProClusterInfo
  - New members:CanEditRoute
  - **Modified members:** ClusterId, ClusterName, Remark, CreateTime, Status, Version, NodeDistribution, MaxStorage
- RabbitMQVipInstance
  - New members:ClusterStatus
- RocketMQClusterInfo
  - New members:InternalEndpoint, HttpInternalEndpoint
- RocketMQNamespace
  - New members:InternalEndpoint
- RocketMQVipInstance
  - New members:MaxRetention, MinRetention, Retention

# Release 16

Release time: 2023-04-28 10:21:04

Release updates:

Improvement to existing documentation.

New APIs:

- DescribePulsarProInstanceDetail
- DescribePulsarProInstances

New data structures:

- PulsarNetworkAccessPointInfo
- PulsarProClusterInfo
- PulsarProClusterSpecInfo
- PulsarProInstance

# Release 15

Release time: 2023-04-18 14:50:58

Release updates:

Improvement to existing documentation.

New APIs:

- CreateRabbitMQVipInstance

# Release 14

Release time: 2023-03-14 17:02:14

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeRocketMQVipInstanceDetail

New data structures:

- InstanceNodeDistribution
- RocketMQInstanceConfig
- RocketMQTopicDistribution

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# Release 13

Release time: 2023-02-24 15:13:01

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeRabbitMQNodeList
  - New input parameters:NodeName, Filters, SortElement, SortOrder

Modified data structures:

- RabbitMQPrivateNode
  - New members:NodeStatus, CPUUsage, Memory, DiskUsage, ProcessNumber
- RabbitMQVipInstance
  - New members:ExceptionInformation
- RocketMQClusterConfig
  - New members:MaxQueuesPerTopic
  - **Modified members:** MaxTpsPerNamespace, MaxNamespaceNum, UsedNamespaceNum, MaxTopicNum, UsedTopicNum, MaxGroupNum, UsedGroupNum, MaxRetentionTime, MaxLatencyTime

# Release 12

Release time: 2023-01-31 17:54:03

Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateRocketMQGroup
  - New input parameters:GroupType, RetryMaxTimes
- DescribeRocketMQGroups
  - New input parameters:Types
- ModifyRocketMQGroup
  - New input parameters:RetryMaxTimes

Modified data structures:

- RocketMQGroup
  - New members:GroupType, RetryMaxTimes
  - **Modified members:** Name, ConsumerNum, TPS, TotalAccumulative, ConsumptionMode, ReadEnabled, RetryPartitionNum, CreateTime, UpdateTime, ClientProtocol, Remark, ConsumerType, BroadcastEnabled
- RocketMQTopic
  - New members:Type, GroupNum

# Release 11

Release time: 2022-12-29 15:03:29

Release updates:

Improvement to existing documentation.

Modified data structures:

- RocketMQClusterInfo
  - New members:RocketMQFlag, Status, IsolateTime, HttpPublicEndpoint, HttpVpcEndpoint
  - **Modified members:** ClusterId, ClusterName, Region, CreateTime, Remark, PublicEndPoint, VpcEndPoint, SupportNamespaceEndpoint, Vpcs, IsVip

# Release 10

Release time: 2022-11-23 16:11:56

Release updates:

Improvement to existing documentation.

New data structures:

- VpcConfig

Modified data structures:

- RocketMQClusterInfo
  - New members:Vpcs, IsVip

# Release 9

Release time: 2022-11-18 17:10:38

Release updates:

Improvement to existing documentation.

Modified data structures:

- CmqTopic
  - New members:BrokerType

## Release 8

Release time: 2022-11-14 15:30:28

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeRabbitMQNodeList
- DescribeRabbitMQVipInstances

New data structures:

- RabbitMQPrivateNode
- RabbitMQVipInstance

## Release 7

Release time: 2022-10-09 15:18:32

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeRocketMQVipInstances

New data structures:

- RocketMQVipInstance

# Release 6

Release time: 2022-07-18 10:12:31

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeTopics
  - New input parameters:TopicCreator
- ReceiveMessage
  - New input parameters:MaxNumMessages, MaxNumBytes, Timeout
  - New output parameters:MessageIDList, MessagesPayload

Modified data structures:

- RocketMQNamespace
  - New members:PublicEndpoint, VpcEndpoint

# Release 5

Release time: 2022-06-30 16:20:19

Release updates:

Improvement to existing documentation.

New APIs:

- DeleteSubscriptions
- DeleteTopics
- DescribeBindClusters
- DescribeClusters
- DescribeCmqQueues
- DescribeCmqTopics
- DescribeEnvironmentRoles
- DescribeEnvironments
- DescribeRocketMQClusters
- DescribeRocketMQGroups
- DescribeRocketMQNamespaces

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- DescribeRocketMQTopics
- DescribeSubscriptions
- DescribeTopics

New data structures:

- BindCluster
- Consumer
- ConsumersSchedule
- Environment
- EnvironmentRole
- FilterSubscription
- PartitionsTopic
- RocketMQClusterDetail
- RocketMQGroup
- RocketMQNamespace
- RocketMQTopic
- Subscription
- SubscriptionTopic
- Topic
- TopicRecord

# Release 4

Release time: 2022-05-06 10:28:04

Release updates:

Improvement to existing documentation.

New APIs:

- ResetRocketMQConsumerOffSet

**Deleted APIs:**

- DeleteSubscriptions
- DeleteTopics
- DescribeBindClusters
- DescribeClusters
- DescribeCmqQueues

- DescribeCmqTopics
- DescribeEnvironmentRoles
- DescribeEnvironments
- DescribeRocketMQClusters
- DescribeRocketMQGroups
- DescribeRocketMQNamespaces
- DescribeRocketMQTopics
- DescribeSubscriptions
- DescribeTopics

Modified APIs:

- CreateCmqQueue
  - New input parameters:RetentionSizeInMB
- ModifyCmqQueueAttribute
  - New input parameters:RetentionSizeInMB

**Deleted data structures:**

- BindCluster
- Consumer
- ConsumersSchedule
- Environment
- EnvironmentRole
- FilterSubscription
- PartitionsTopic
- RocketMQClusterDetail
- RocketMQGroup
- RocketMQNamespace
- RocketMQTopic
- Subscription
- SubscriptionTopic
- Topic
- TopicRecord

Modified data structures:

- CmqQueue
  - New members:RetentionSizeInMB
- CmqTopic

  - New members:Status
- RocketMQClusterInfo
  - New members:SupportNamespaceEndpoint

# Release 3

Release time: 2022-02-24 16:17:02

Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateCmqQueue
  - New input parameters:Tags
- CreateCmqTopic
  - New input parameters:Tags
- CreateTopic
  - New input parameters:PulsarTopicType
  - **Modified input parameters:** TopicType

Modified data structures:

- Cluster
  - New members:PayMode
- Consumer
  - New members:Partition
- Subscription
  - New members:SubType, BlockedSubscriptionOnUnackedMsgs, MaxUnackedMsgNum
- Topic
  - New members:PulsarTopicType

# Release 2

Release time: 2022-02-10 17:07:12

Release updates:

Improvement to existing documentation.

New APIs:

- DescribePublisherSummary
- DescribePublishers

**Deleted APIs:**

- DescribeProducers

New data structures:

- Publisher
- Sort

**Deleted data structures:**

- Connection
- Producer

Modified data structures:

- CmqQueue
  - New members:Status, MaxUnackedMsgNum, MaxMsgBacklogSize

# Release 1

Release time: 2021-12-28 11:17:30

Release updates:

Improvement to existing documentation.

New APIs:

- AcknowledgeMessage
- ClearCmqQueue
- ClearCmqSubscriptionFilterTags
- CreateCluster
- CreateCmqQueue
- CreateCmqSubscribe
- CreateCmqTopic
- CreateEnvironment
- CreateEnvironmentRole

- CreateRocketMQCluster
- CreateRocketMQGroup
- CreateRocketMQNamespace
- CreateRocketMQTopic
- CreateRole
- CreateSubscription
- CreateTopic
- DeleteCluster
- DeleteCmqQueue
- DeleteCmqSubscribe
- DeleteCmqTopic
- DeleteEnvironmentRoles
- DeleteEnvironments
- DeleteRocketMQCluster
- DeleteRocketMQGroup
- DeleteRocketMQNamespace
- DeleteRocketMQTopic
- DeleteRoles
- DeleteSubscriptions
- DeleteTopics
- DescribeBindClusters
- DescribeBindVpcs
- DescribeClusterDetail
- DescribeClusters
- DescribeCmqDeadLetterSourceQueues
- DescribeCmqQueueDetail
- DescribeCmqQueues
- DescribeCmqSubscriptionDetail
- DescribeCmqTopicDetail
- DescribeCmqTopics
- DescribeEnvironmentAttributes
- DescribeEnvironmentRoles
- DescribeEnvironments
- DescribeProducers
- DescribeRocketMQCluster
- DescribeRocketMQClusters
- DescribeRocketMQGroups
- DescribeRocketMQNamespaces

- DescribeRocketMQTopics
- DescribeRoles
- DescribeSubscriptions
- DescribeTopics
- ModifyCluster
- ModifyCmqQueueAttribute
- ModifyCmqSubscriptionAttribute
- ModifyCmqTopicAttribute
- ModifyEnvironmentAttributes
- ModifyEnvironmentRole
- ModifyRocketMQCluster
- ModifyRocketMQGroup
- ModifyRocketMQNamespace
- ModifyRocketMQTopic
- ModifyRole
- ModifyTopic
- PublishCmqMsg
- ReceiveMessage
- ResetMsgSubOffsetByTimestamp
- RewindCmqQueue
- SendBatchMessages
- SendCmqMsg
- SendMessages
- SendMsg
- UnbindCmqDeadLetter

New data structures:

- BindCluster
- Cluster
- CmqDeadLetterPolicy
- CmqDeadLetterSource
- CmqQueue
- CmqSubscription
- CmqTopic
- CmqTransactionPolicy
- Connection
- Consumer

- ConsumersSchedule
- Environment
- EnvironmentRole
- Filter
- FilterSubscription
- PartitionsTopic
- Producer
- RetentionPolicy
- RocketMQClusterConfig
- RocketMQClusterDetail
- RocketMQClusterInfo
- RocketMQClusterRecentStats
- RocketMQGroup
- RocketMQNamespace
- RocketMQTopic
- Role
- Subscription
- SubscriptionTopic
- Tag
- Topic
- TopicRecord
- VpcBindRecord

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# Introduction

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Welcome to TDMQ

TDMQ runs in Tencent IDC and provides scalable message queue services in a serverless manner.

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# API Category

Last updated：2024-11-27 16:57:03

## Cluster APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
| --- | --- | --- |
| CreateCluster | Creates cluster | 20 |
| DeleteCluster | Deletes cluster | 20 |
| DescribeBindClusters | Gets the list of dedicated clusters | 20 |
| DescribeClusterDetail | Gets cluster details | 20 |
| DescribeClusters | Gets the list of clusters | 20 |
| DescribePulsarProInstanceDetail | Obtains the information of a TDMQ for Pulsar pro cluster instance | 20 |
| DescribePulsarProInstances | Queries the list of TDMQ for Pulsar pro instances | 20 |
| DescribeRabbitMQNodeList | Queries the list of TDMQ for RabbitMQ exclusive cluster nodes | 20 |
| DescribeRabbitMQVirtualHostList | Queries the list of TDMQ for RabbitMQ exclusive vhosts | 20 |
| ModifyCluster | Updates cluster | 20 |

## Namespace APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
| --- | --- | --- |
| CreateEnvironment | Creates namespace | 20 |
| DeleteEnvironments | Deletes namespaces | 20 |
| DeleteRocketMQNamespace | Deletes RocketMQ namespace | 20 |

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| | | |
|---|---|---|
| DescribeEnvironmentAttributes | Gets namespace attributes | 20 |
| DescribeEnvironmentRoles | Gets the list of namespace roles | 20 |
| DescribeEnvironments | Gets the list of namespaces under a tenant | 20 |
| ModifyEnvironmentAttributes | Modifies namespace attributes | 20 |

## Topic APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| CreateTopic | Adds topic | 200 |
| DeleteTopics | Deletes topics | 20 |
| DescribeTopics | Gets the topic list | 20 |
| ModifyTopic | Modifies topic | 50 |

## CMQ Message APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| ClearCmqQueue | Clears the messages in the CMQ message queue. | 20 |
| ClearCmqSubscriptionFilterTags | Clears the message tags of CMQ subscriber | 20 |
| PublishCmqMsg | Sends CMQ topic message | 20 |
| SendCmqMsg | Sends CMQ message | 20 |

## CMQ Management APIs

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

| | | |
|---|---|---|
| CreateCmqQueue | Creates CMQ queue | 20 |
| CreateCmqSubscribe | Creates CMQ subscription | 20 |
| CreateCmqTopic | Creates CMQ topic | 20 |
| DeleteCmqQueue | Deletes CMQ queue | 20 |
| DeleteCmqSubscribe | Deletes CMQ subscription | 20 |
| DeleteCmqTopic | Deletes CMQ topic | 20 |
| DescribeCmqDeadLetterSourceQueues | Enumerates the source queues of CMQ dead letter queue | 20 |
| DescribeCmqQueues | Queries all CMQ queues | - |
| DescribeCmqSubscriptionDetail | Queries CMQ subscription details | 20 |
| DescribeCmqTopicDetail | Queries the details of CMQ topic | 20 |
| DescribeCmqTopics | Enumerates all CMQ topics | 20 |
| ModifyCmqQueueAttribute | Modifies CMQ queue attributes | 20 |
| ModifyCmqSubscriptionAttribute | Modifies CMQ subscription attributes | 20 |
| ModifyCmqTopicAttribute | Modifies CMQ topic attributes | 20 |
| RewindCmqQueue | Rewinds CMQ queue | 20 |
| UnbindCmqDeadLetter | Unbinds CMQ dead letter queue | 20 |
| DescribeCmqQueueDetail | Queries the details of CMQ queue | 100 |

## Other APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| DescribeBindVpcs | Gets the tenant-VPC binding relationship | 20 |
| SendMsg | Sends message | 20 |
| | | |

| | | |
|---|---|---|
| SendRocketMQMessage | Sends a TDMQ for RocketMQ message | 20 |

## TDMQ for RabbitMQ APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| CreateRabbitMQUser | Creates a TDMQ for RabbitMQ user | 20 |
| CreateRabbitMQVirtualHost | Creates a TDMQ for RabbitMQ vhost | 20 |
| DeleteRabbitMQUser | Deletes a TDMQ for RabbitMQ user | 20 |
| DeleteRabbitMQVirtualHost | Deletes a TDMQ for RabbitMQ vhost | 20 |
| DescribeRabbitMQUser | Queries the list of TDMQ for RabbitMQ users | 20 |
| DescribeRabbitMQVipInstances | Queries the list of the purchased TDMQ for RabbitMQ exclusive instances | 20 |
| DescribeRabbitMQVirtualHost | Queries the list of TDMQ for RabbitMQ vhosts | 20 |
| ModifyRabbitMQUser | Modifies a TDMQ for RabbitMQ user | 20 |
| ModifyRabbitMQVirtualHost | Modifies a TDMQ for RabbitMQ vhost | 20 |
| CreateRabbitMQVipInstance | Creates a TDMQ for RabbitMQ exclusive instance | 1 |
| DeleteRabbitMQVipInstance | Deletes a TDMQ for RabbitMQ exclusive instance | 20 |

## Environment Role APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| CreateEnvironmentRole | Creates environment role | 20 |
| CreateRole | Creates role | 20 |
| | | |

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| | | |
|---|---|---|
| DeleteEnvironmentRoles | Deletes environment role | 20 |
| DeleteRoles | Delete role | 20 |
| DescribeRoles | Gets the list of roles | 20 |
| ModifyEnvironmentRole | Modifies environment role | 20 |
| ModifyRole | Modifies role | 20 |

## RocketMQ APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| CreateRocketMQCluster | Creates RocketMQ cluster | 20 |
| CreateRocketMQGroup | Creates RocketMQ consumer group | 20 |
| CreateRocketMQNamespace | Creates RocketMQ namespace | 20 |
| CreateRocketMQTopic | Creates RocketMQ topic | 20 |
| DeleteRocketMQCluster | Deletes RocketMQ cluster | 20 |
| DeleteRocketMQGroup | Deletes RocketMQ consumer group | 20 |
| DeleteRocketMQTopic | Deletes RocketMQ topic | 20 |
| DescribeRocketMQClusters | Gets the list of RocketMQ clusters | 20 |
| DescribeRocketMQGroups | Gets the list of RocketMQ consumer groups | 20 |
| DescribeRocketMQMsg | Queries the TDMQ for RocketMQ message details | 20 |
| DescribeRocketMQNamespaces | Gets the list of RocketMQ namespaces | 20 |
| DescribeRocketMQTopics | Gets the list of RocketMQ topics | 20 |
| DescribeRocketMQVipInstanceDetail | Gets the information of a specific TDMQ for RocketMQ exclusive cluster | 20 |
| ModifyRocketMQCluster | Updates RocketMQ cluster | 20 |

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| | | |
|---|---|---|
| ModifyRocketMQGroup | Updates RocketMQ consumer group | 20 |
| ModifyRocketMQNamespace | Updates RocketMQ namespace | 20 |
| ModifyRocketMQTopic | Updates RocketMQ topic | 20 |
| DescribeRocketMQCluster | Gets the information of specific RocketMQ cluster | 20 |

## TDMQ for RocketMQ APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| DescribeRocketMQVipInstances | Queries the list of TDMQ for RocketMQ exclusive instances | 20 |
| ModifyRocketMQInstanceSpec | Modifies the configurations of a TDMQ for RocketMQ exclusive instance | 20 |

## Production and Consumption APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
|---|---|---|
| CreateSubscription | Creates subscription | 200 |
| DeleteSubscriptions | Deletes a subscription | 20 |
| DescribePublisherSummary | Obtains message production overview | 20 |
| DescribePublishers | Obtains the list of producer information | 20 |
| DescribeSubscriptions | Gets the consumer subscription list | 20 |
| ResetMsgSubOffsetByTimestamp | Rewinds message | 20 |
| ResetRocketMQConsumerOffSet | Resets RocketMQ consumption offset | 20 |

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# Message APIs

| API Name | Feature | Frequency Limit (maximum requests per second) |
| --- | --- | --- |
| ReceiveMessage | Receives messages | 1000 |
| SendBatchMessages | Batch sends messages | 1000 |
| SendMessages | Sends one message | 1000 |
| AcknowledgeMessage | Acknowledges message | 1000 |

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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 tdmq.intl.tencentcloudapi.com) or a specified region (at tdmq.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 "tdmq.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) | tdmq.intl.tencentcloudapi.com |
| South China (Guangzhou) | tdmq.ap-guangzhou.tencentcloudapi.com |
| East China (Shanghai) | tdmq.ap-shanghai.tencentcloudapi.com |
| North China (Beijing) | tdmq.ap-beijing.tencentcloudapi.com |
| Southwest China (Chengdu) | tdmq.ap-chengdu.tencentcloudapi.com |
| Southwest China (Chongqing) | tdmq.ap-chongqing.tencentcloudapi.com |
| Hong Kong, Macao, Taiwan (Hong Kong, China) | tdmq.ap-hongkong.tencentcloudapi.com |
| Southeast Asia (Singapore) | tdmq.ap-singapore.tencentcloudapi.com |

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| | |
|---|---|
| Southeast Asia (Bangkok) | tdmq.ap-bangkok.tencentcloudapi.com |
| South Asia (Mumbai) | tdmq.ap-mumbai.tencentcloudapi.com |
| Northeast Asia (Seoul) | tdmq.ap-seoul.tencentcloudapi.com |
| Northeast Asia (Tokyo) | tdmq.ap-tokyo.tencentcloudapi.com |
| U.S. East Coast (Virginia) | tdmq.na-ashburn.tencentcloudapi.com |
| U.S. West Coast (Silicon Valley) | tdmq.na-siliconvalley.tencentcloudapi.com |
| Europe (Frankfurt) | tdmq.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:<br>TC3-HMAC-SHA256 Credential=AKID*******/Date/service/tc3_request, SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317<br>Here:<br>- TC3-HMAC-SHA256: Signature method, currently fixed as this value;<br>- Credential: Signature credential; AKID******* is the SecretId; Date is a d time, and this value must match the value of X-TC-Timestamp (a commo |

| | | | |
|---|---|---|---|
| | | | UTC time format; service is the name of the product/service, and is gener name prefix. For example, a domain name cvm.tencentcloudapi.com refe product and the value would be cvm;<br>- SignedHeaders: The headers that contains the authentication informatic type and host are the required headers;<br>- Signature: Signature digest. |
| X-TC-Token | String | No | The token used for a temporary certificate. It must be used with a tempor 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=AKID********************************/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=AKID********************************/20
18-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5
924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):

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

Authorization: TC3-HMAC-SHA256 Credential=AKID********************************/20
18-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5
924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
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. |

| | | | |
|---|---|---|---|
| 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
=AKID*******************************

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

Example of an HTTP POST request structure:

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

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

Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=
1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID***************************
****
```

# Signature v3

Last updated：2024-11-27 16:57:07

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 `AKID********************************` and `********************************`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKID********************************
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=ca282b0a
56549857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

### 1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
```

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

| Field Name | Explanation |
| --- | --- |
| HTTPRequestMethod | HTTP request method (GET or POST). This example uses `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。<br>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.<br>Concatenation rules:<br>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;<br>2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase).<br><br>The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` .<br>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.<br>Concatenation rules:<br>1. Both the key and value of the header should be converted to lowercase;<br>2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;).<br><br>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` |

| | |
|---|---|
| | `[{"Values": ["unnamed"], "Name": "instance-name"}]}` in this exampl<br>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` . |
| | |

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

| | |
|---|---|
| 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., `AKID********************************`. |
| 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 `ca282b0a56549857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f`. |

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

```
TC3-HMAC-SHA256 Credential=AKID********************************/2019-02-25/cvm/tc
3_request, SignedHeaders=content-type;host, Signature=ca282b0a56549857d53b2beb08b
0c35871c892d42d09ae30b38d456e09ce291f
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKID********************************/20
19-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=ca282b0a5654
9857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f
```

```
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=AKID**********&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 = "AKID********************************";
private final static String SECRET_KEY = "********************************";
private final static String CT_JSON = "application/json; charset=utf-8";

public static byte[] hmac256(byte[] key, String msg) throws Exception {
Mac mac = Mac.getInstance("HmacSHA256");
SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
mac.init(secretKeySpec);
return mac.doFinal(msg.getBytes(UTF8));
}

public static String sha256Hex(String s) throws Exception {
MessageDigest md = MessageDigest.getInstance("SHA-256");
byte[] d = md.digest(s.getBytes(UTF8));
return DatatypeConverter.printHexBinary(d).toLowerCase();
}

public static void main(String[] args) throws Exception {
String service = "cvm";
String host = "cvm.tencentcloudapi.com";
String region = "ap-guangzhou";
String action = "DescribeInstances";
String version = "2017-03-12";
String algorithm = "TC3-HMAC-SHA256";
String timestamp = "1551113065";
//String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
// Pay attention to the time zone; otherwise, errors may occur
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

// ************* Step 1: Concatenate the CanonicalRequest string *************
```

```
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "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)
```

```
.append(" -H \"Authorization: ").append(authorization).append("\"")
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\"")
.append(" -H \"X-TC-Action: ").append(action).append("\"")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\"")
.append(" -H \"X-TC-Version: ").append(version).append("\"")
.append(" -H \"X-TC-Region: ").append(region).append("\"")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
}
```

### Python

```
# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKID********************************"
secret_key = "********************************"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"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" +
```

```
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**

```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 := "AKID********************************"
secretKey := "********************************"
host := "cvm.tencentcloudapi.com"
algorithm := "TC3-HMAC-SHA256"
service := "cvm"
version := "2017-03-12"
action := "DescribeInstances"
region := "ap-guangzhou"
//var timestamp int64 = time.Now().Unix()
var timestamp int64 = 1551113065

// step 1: build canonical request string
httpRequestMethod := "POST"
canonicalURI := "/"
canonicalQueryString := ""
canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
host + "\n"
signedHeaders := "content-type;host"
payload := `{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}`
hashedRequestPayload := sha256hex(payload)
canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
httpRequestMethod,
canonicalURI,
```

```
canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)

// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)

// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)

// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%
s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)

curl := fmt.Sprintf(`curl -X POST https://%s\
-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}
```

**PHP**

```php
<?php
$secretId = "AKID********************************";
$secretKey = "********************************";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$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;
```

```
// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/".$credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;

$curl = "curl -X POST https://".$host
.' -H "Authorization: '.$authorization.'"'
.' -H "Content-Type: application/json; charset=utf-8"'
.' -H "Host: '.$host.'"'
.' -H "X-TC-Action: '.$action.'"'
.' -H "X-TC-Timestamp: '.$timestamp.'"'
.' -H "X-TC-Version: '.$version.'"'
.' -H "X-TC-Region: '.$region.'"'
." -d '".$payload."'";
echo $curl.PHP_EOL;
```

**Ruby**

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
require 'json'
require 'time'
require 'openssl'

# Key Parameters
secret_id = 'AKID********************************'
secret_key = '********************************'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

# ************* Step 1: Concatenate the CanonicalRequest string *************
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
```

```
canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")

puts canonical_request

# ************* Step 2: Concatenate the string to sign *************
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
hashed_request_payload,
].join("\n")
puts string_to_sign

# ************* Step 3: Calculate the Signature *************
digest = OpenSSL::Digest.new('sha256')
secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

# ************* Step 4: Concatenate the Authorization *************
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization

puts 'curl -X POST ' + endpoint \
```

```
+ ' -H "Authorization: ' + authorization + '"' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + '"' \
+ ' -H "X-TC-Action: ' + action + '"' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + '"' \
+ ' -H "X-TC-Version: ' + version + '"' \
+ ' -H "X-TC-Region: ' + region + '"' \
+ " -d '" + payload + "'"
```

### DotNet

```
using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;

public class Application
{
public static string SHA256Hex(string s)
{
using (SHA256 algo = SHA256.Create())
{
byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
StringBuilder builder = new StringBuilder();
for (int i = 0; i < hashbytes.Length; ++i)
{
builder.Append(hashbytes[i].ToString("x2"));
}
return builder.ToString();
}
}
public static byte[] HmacSHA256(byte[] key, byte[] msg)
{
using (HMACSHA256 mac = new HMACSHA256(key))
{
return mac.ComputeHash(msg);
}
}

public static Dictionary<String, String> BuildHeaders(string secretid,
string secretkey, string service, string endpoint, string region,
string action, string version, DateTime date, string requestPayload)
{
string datestr = date.ToString("yyyy-MM-dd");
DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, Mi
```

```
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);
```

```
Console.WriteLine("----------------------------------");

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}
public static void Main(string[] args)
{
// SecretID and SecretKey
string SECRET_ID = "AKID********************************";
string SECRET_KEY = "********************************";

string service = "cvm";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";

// The timestamp `2019-02-26 00:44:25` used here is only for reference. In a proj
ect, use the following parameter:
// DateTime date = DateTime.UtcNow;
// Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds
(1551113065);
string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\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);
}
}
```

### NodeJS

```
const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
const hmac = crypto.createHmac('sha256', secret)
return hmac.update(message).digest(encoding)
}
function getHash(message, encoding = 'hex') {
const hash = crypto.createHash('sha256')
return hash.update(message).digest(encoding)
}
function getDate(timestamp) {
const date = new Date(timestamp * 1000)
const year = date.getUTCFullYear()
const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
const day = ('0' + date.getUTCDate()).slice(-2)
return `${year}-${month}-${day}`
}
function main(){

const SECRET_ID = "AKID********************************"
const SECRET_KEY = "********************************"

const endpoint = "cvm.tencentcloudapi.com"
const service = "cvm"
const region = "ap-guangzhou"
const action = "DescribeInstances"
const version = "2017-03-12"
//const timestamp = getTime()
const timestamp = 1551113065
const date = getDate(timestamp)

// ************* Step 1: Concatenate the CanonicalRequest string *************
const signedHeaders = "content-type;host"

const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}"

const hashedRequestPayload = getHash(payload);
const httpRequestMethod = "POST"
const canonicalUri = "/"
const canonicalQueryString = ""
const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + endpoint + "\n"

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

```
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("----------------------------")

// ************* Step 2: Concatenate the string to sign *************
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("----------------------------")

// ************* Step 3: Calculate the signature *************
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("----------------------------")

// ************* Step 4: Concatenate the Authorization *************
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("----------------------------")

const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + "'"
console.log(Call_Information)
}
main()
```

**C++**

```
#include <iostream>
#include <iomanip>
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>

using namespace std;

string get_data(int64_t &timestamp)
{
string utcDate;
char buff[20] = {0};
// time_t timenow;
struct tm sttime;
sttime = *gmtime(&timestamp);
strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
utcDate = string(buff);
return utcDate;
}
string int2str(int64_t n)
{
std::stringstream ss;
ss << n;
return ss.str();
}
string sha256Hex(const string &str)
{
char buf[3];
unsigned char hash[SHA256_DIGEST_LENGTH];
SHA256_CTX sha256;
SHA256_Init(&sha256);
SHA256_Update(&sha256, str.c_str(), str.size());
SHA256_Final(hash, &sha256);
std::string NewString = "";
for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
{
snprintf(buf, sizeof(buf), "%02x", hash[i]);
NewString = NewString + buf;
}
return NewString;
```

```
}
string HmacSha256(const string &key, const string &input)
{
unsigned char hash[32];

HMAC_CTX *h;
#if OPENSSL_VERSION_NUMBER < 0x10100000L
HMAC_CTX hmac;
HMAC_CTX_init(&hmac);
h = &hmac;
#else
h = HMAC_CTX_new();
#endif

HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);
HMAC_Update(h, ( unsigned char* )&input[0], input.length());
unsigned int len = 32;
HMAC_Final(h, hash, &len);

#if OPENSSL_VERSION_NUMBER < 0x10100000L
HMAC_CTX_cleanup(h);
#else
HMAC_CTX_free(h);
#endif

std::stringstream ss;
ss << std::setfill('0');
for (int i = 0; i < len; i++)
{
ss << hash[i];
}

return (ss.str());
}
string HexEncode(const string &input)
{
static const char* const lut = "0123456789abcdef";
size_t len = input.length();

string output;
output.reserve(2 * len);
for (size_t i = 0; i < len; ++i)
{
const unsigned char c = input[i];
output.push_back(lut[c >> 4]);
output.push_back(lut[c & 15]);
}
```

```
return output;
}

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

string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);

// ************* Step 1: Concatenate the CanonicalRequest string *************
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + 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");
```

```
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: `AKID********************************`
- SecretKey: `********************************`

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

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

| Parameter name | Description | Parameter value |
| --- | --- | --- |
| Action | Method name | DescribeInstances |
| SecretId | Key ID | `AKID********************************` |
| Timestamp | Current timestamp | 1465185768 |
| Nonce | Random positive integer | 11886 |
| Region | Region where the instance is located | ap-guangzhou |
| InstanceIds.0 | ID of the instance to query | ins-09dx96dg |
| Offset | Offset | 0 |
| Limit | Allowed maximum output | 20 |
| Version | API version number | 2017-03-12 |

### 2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
'Action' : 'DescribeInstances',
'InstanceIds.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : 'AKID********************************',
'Timestamp' : 1465185768,
'Version': '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

### 2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

**Note: The "parameter value" is the original value but not the value after URL encoding.**

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKID*******************************&Timestamp=1465
185768&Version=2017-03-12
```

### 2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID******************
*************&Timestamp=1465185768&Version=2017-03-12
```

### 2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and then

encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

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

The final signature is:

```
9FzTQAN1UZ489+BqCg1fNBQaCqw=
```

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 9FzTQAN1UZ489+BqCg1fNBQaCqw=, the final signature string request parameter (Signature) is 9FzTQAN1UZ489%2BBqCg1fNBQaCqw%3D, which will be used to generate the final request URL.

**Note: If your request method is GET, or the request method is POST and the Content-Type is application/x-www-form-urlencoded, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.**

**Note: The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.**

**Note: Other parameter values also need to be encoded using RFC 3986. Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0-9 and uppercase A-F), and using lowercase will cause an error.**

## 4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

| Error code | Error description |
| --- | --- |
| AuthFailure.SignatureExpire | The signature is expired |
| AuthFailure.SecretIdNotFound | The key does not exist |
| AuthFailure.SignatureFailure | Signature error |
| AuthFailure.TokenFailure | Token error |
| AuthFailure.InvalidSecretId | Invalid key (not a TencentCloud API key type) |

# 5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See SDK Center for more information. Currently, the following programming languages are supported:

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID********************************&Signature=9FzTQAN1UZ489%2BBqCg1fNBQaCqw%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()) {
```

```
// 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", "AKID********************************"); // 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), "**************************
******", "HmacSHA1")); // Common parameter
System.out.println(getUrl(params));
}
}
```

## Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests` .

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time

import requests

secret_id = "AKID********************************"
secret_key = "********************************"
```

```
def get_string_to_sign(method, endpoint, params):
s = method + endpoint + "/?"
query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
return s + query_str

def sign_str(key, s, method):
hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
return base64.b64encode(hmac_str)

if __name__ == '__main__':
endpoint = "cvm.tencentcloudapi.com"
data = {
'Action' : 'DescribeInstances',
'InstanceIds.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : secret_id,
'Timestamp' : 1465185768, # int(time.time())
'Version': '2017-03-12'
}
s = get_string_to_sign("GET", endpoint, data)
data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
print(data["Signature"])
# An actual invocation would occur here, which may incur fees after success
# resp = requests.get("https://" + endpoint, params=data)
# print(resp.url)
```

## Golang

```
package main

import (
"bytes"
"crypto/hmac"
"crypto/sha1"
"encoding/base64"
"fmt"
"sort"
)

func main() {
secretId := "AKID********************************"
secretKey := "********************************"
```

```
params := map[string]string{
"Nonce": "11886",
"Timestamp": "1465185768",
"Region": "ap-guangzhou",
"SecretId": secretId,
"Version": "2017-03-12",
"Action": "DescribeInstances",
"InstanceIds.0": "ins-09dx96dg",
"Limit": "20",
"Offset": "0",
}

var buf bytes.Buffer
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")

// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
keys = append(keys, k)
}
sort.Strings(keys)

for i := range keys {
k := keys[i]
buf.WriteString(k)
buf.WriteString("=")
buf.WriteString(params[k])
buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)

hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())

fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

## PHP

```
<?php
$secretId = "AKID********************************";
$secretKey = "********************************";
$param["Nonce"] = 11886;//rand();
```

```
$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 = "AKID********************************"
secret_key = "********************************"

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

```
'Nonce' => 11886,
'Offset' => 0,
'Region' => 'ap-guangzhou',
'SecretId' => secret_id,
'Timestamp' => 1465185768, # Time.now.to_i
'Version' => '2017-03-12',
}
sign = method + endpoint + '/?'
params = []
data.sort.each do |item|
params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, 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)
```

```
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}

public static void Main(string[] args)
{
string SECRET_ID = "AKID********************************";
string SECRET_KEY = "********************************";

string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());

param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);

param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
```

```
Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();

string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
```

## NodeJS

```
const crypto = require('crypto');

function get_req_url(params, endpoint){
params['Signature'] = escape(params['Signature']);
const url_strParam = sort_params(params)
return "https://" + endpoint + "/?" + url_strParam.slice(1);
}

function formatSignString(reqMethod, endpoint, path, strParam){
let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
return strSign;
}
function sha1(secretKey, strsign){
let signMethodMap = {'HmacSHA1': "sha1"};
let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}

function sort_params(params){
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
//k = k.replace(/_/g, '.');
```

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

function main(){
const SECRET_ID = "AKID********************************"
const SECRET_KEY = "********************************"

const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)

let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;

strParam = sort_params(params)

const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----------------------")

params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
console.log("-----------------------")

const req_url = get_req_url(params, endpoint)
console.log(params['Signature'])
console.log("-----------------------")
console.log(req_url)
}
main()
```

# Responses

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## Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
"Response": {
"TotalCount": 0,
"InstanceStatusSet": [],
"RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
}
}
```

- The API will return `Response`, which contains `RequestId`, as long as it processes the request. It does not matter if the request is successful or not.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus`. 0 `TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

## Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please ensure your 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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# Message APIs
# AcknowledgeMessage

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## 1. API Description

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

This API is used to acknowledge the message in the specified topic by the provided `MessageID` .

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: AcknowledgeMessage. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | Yes | String | Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-mumbai, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley. |
| MessageId | Yes | String | Unique ID used to identify the message, which can be obtained from the returned value of `receiveMessage` . |
| AckTopic | Yes | String | Topic name, which can be obtained from the returned value of |

| | | | |
|---|---|---|---|
| | | | `receiveMessage` and is better to be the full path of the topic, such as `tenant/namespace/topic`. If it is not specified, `public/default` will be used by default. |
| SubName | Yes | String | Subscriber name, which can be obtained from the returned value of `receiveMessage`. Make sure that it is the same as the subscriber name identified in `receiveMessage`; otherwise, the received message cannot be correctly acknowledged. |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| ErrorMsg | String | If it is an empty string, no error occurred.<br>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 Acknowledging message

#### Input Example

```
https://tdmq.intl.tencentcloudapi.com/?Action=AcknowledgeMessage
&AckTopic=tenant/namespace/topic
&MessageId="71:12:0"
&SubName="test-sub"
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "36713f94-d07d-4b96-babf-42d139276f23",
"ErrorMsg": "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.

- 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.CreateProducerError | An error occurred while creating the producer. |
| FailedOperation.CreatePulsarClientError | An error occurred while creating the TDMQ client. |
| FailedOperation.MaxMessageSizeError | The message size exceeds the upper limit of 1 MB. |
| FailedOperation.MessageIDError | The uploaded `msgID` is incorrect. |
| FailedOperation.ReceiveError | An error occurred while receiving the message. |
| FailedOperation.ReceiveTimeout | Message receiving timed out. Please try again. |
| FailedOperation.TopicTypeError | Please use a partition topic. |
| InvalidParameter.TenantNotFound | The uploaded tenant name is incorrect. |

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| | |
|---|---|
| InvalidParameter.TokenNotFound | The correct token was not obtained. |
| InvalidParameterValue.TopicNotFound | The uploaded topic name is incorrect. |

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# SendMessages

Last updated：2023-08-09 14:43:28

## 1. API Description

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

This API is used to send a single message.
The message cannot be sent to a persistent topic.

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: SendMessages. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Topic | Yes | String | Name of the topic to which to send the message. It is better to be the full path of the topic, such as `tenant/namespace/topic` . If it is not specified, `public/default` will be used by default. |
| Payload | Yes | String | Content of the message to be sent |
| StringToken | No | String | Token used for authentication, which is optional and will be automatically obtained by the system. |

| | | | |
|---|---|---|---|
| ProducerName | No | String | Producer name, which is randomly generated and must be globally unique. If you set the producer name manually, the producer may fail to be created, causing message sending failure.<br>This parameter is used only when a specific producer is allowed to produce messages. It won't be used in most cases. |
| SendTimeout | No | Integer | Message sending timeout period, which is 30s by default. |
| MaxPendingMessages | No | Integer | Maximum number of produced messages which can be cached in the memory. Default value: 1000 |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| MessageId | String | messageID, which must be globally unique and is the metadata information used to identify the message.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ErrorMsg | String | Returned error message. If an empty string is returned, no error occurred.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Sending a single message

This example shows you how to send a single message.

The message cannot be sent to a non-persistent topic.

#### Input Example

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

```
{
"Topic": "tenant/namespace/topic",
"Payload": "\"hello TDMQ\""
}
```

**Output Example**

```
{
"Response": {
"RequestId": "36713f94-d07d-4b96-babf-42d139276f23",
"MessageId": "71:11:0:0",
"ErrorMsg": ""
}
}
```

# 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 NodeJS
- 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.CreateProducerError | An error occurred while creating the producer. |
| FailedOperation.CreatePulsarClientError | An error occurred while creating the TDMQ client. |
| FailedOperation.MaxMessageSizeError | The message size exceeds the upper limit of 1 MB. |
| FailedOperation.MessageIDError | The uploaded `msgID` is incorrect. |
| FailedOperation.ReceiveError | An error occurred while receiving the message. |
| FailedOperation.ReceiveTimeout | Message receiving timed out. Please try again. |
| FailedOperation.SendMessageTimeoutError | Message sending timed out. |
| FailedOperation.TopicTypeError | Please use a partition topic. |
| InvalidParameter.TenantNotFound | The uploaded tenant name is incorrect. |
| InvalidParameter.TokenNotFound | The correct token was not obtained. |
| InvalidParameterValue.TopicNotFound | The uploaded topic name is incorrect. |

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# SendBatchMessages

Last updated：2023-08-09 14:43:29

## 1. API Description

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

This API is used to batch send messages.

Note: the batch message sending API in TDMQ is to package messages into a batch on the service side of TDMQ-HTTP and then send the batch as a TCP request inside the service. Therefore, when using this API, you should still follow the logic of sending a single message: each message is an independent HTTP request, and multiple HTTP requests are aggregated into one batch inside the TDMQ-HTTP service and then sent to the server; that is, batch sending messages is the same as sending a single message in terms of usage, and batch aggregation is completed inside the TDMQ-HTTP service.

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: SendBatchMessages. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Topic | Yes | String | Name of the topic to which to send the message. It is better to be the full path of the topic, such as |

| | | | |
|---|---|---|---|
| | | | `tenant/namespace/topic` . If it is not specified, `public/default` will be used by default. |
| Payload | Yes | String | Content of the message to be sent |
| StringToken | No | String | String-Type token, which is optional and will be automatically obtained by the system. |
| ProducerName | No | String | Producer name, which must be globally unique. If it is not configured, the system will automatically generate one. |
| SendTimeout | No | Integer | Message sending timeout period in seconds. Default value: 30s |
| MaxPendingMessages | No | Integer | Maximum number of produced messages which can be cached in the memory. Default value: 1000 |
| BatchingMaxMessages | No | Integer | Maximum number of messages in each batch. Default value: 1000 messages/batch |
| BatchingMaxPublishDelay | No | Integer | Maximum wait time for each batch, after which the batch will be sent no matter whether the specified number or size of messages in the batch is reached. Default value: 10 ms |
| BatchingMaxBytes | No | Integer | Maximum allowed size of messages in each batch. Default value: 128 KB |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| MessageId | String | Unique message ID<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ErrorMsg | String | Error message. If an empty string is returned, no error occurred.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Sending multiple messages successfully

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=SendBatchMessages
&Topic=tenant/namespace/topic
&Payload="hello TDMQ"
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "36713f94-d07d-4b96-babf-42d139276f23",
"MessageId": "71:12:0:0",
"ErrorMsg": ""
}
}
```

# 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 NodeJS
- 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.CreateProducerError | An error occurred while creating the producer. |
| FailedOperation.CreatePulsarClientError | An error occurred while creating the TDMQ client. |
| FailedOperation.MaxMessageSizeError | The message size exceeds the upper limit of 1 MB. |
| FailedOperation.MessageIDError | The uploaded `msgID` is incorrect. |
| FailedOperation.ReceiveError | An error occurred while receiving the message. |
| FailedOperation.ReceiveTimeout | Message receiving timed out. Please try again. |
| FailedOperation.SendMessageTimeoutError | Message sending timed out. |
| FailedOperation.TopicTypeError | Please use a partition topic. |
| InvalidParameter.TenantNotFound | The uploaded tenant name is incorrect. |
| InvalidParameter.TokenNotFound | The correct token was not obtained. |
| InvalidParameterValue.TopicNotFound | The uploaded topic name is incorrect. |

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# ReceiveMessage

Last updated：2023-08-09 14:43:29

## 1. API Description

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

Currently, the `ReceiveMessage` API only supports partitioned topics. It is used to receive messages sent to a specified partitioned topic. If it is called when there are no messages in the partitioned topic, the `ReceiveTimeout` exception will be reported.

Instructions on how to use `BatchReceivePolicy`:

`BatchReceive` has three parameters:

- `MaxNumMessages`: The maximum number of messages returned by `Receive` when `BatchReceive` is used.
- `MaxNumBytes`: The maximum size (in bytes) of the message returned by `Receive` when `BatchReceive` is used.
- `Timeout`: The maximum timeout period (in milliseconds) of calling `Receive` when `BatchReceive` is used.

By default, if you don't specify any of the three parameters, the `BatchReceive` feature is disabled; if one of the three parameter values is above zero, `BatchReceive` is enabled. `BatchReceive` will be disabled when any of the three parameter values reaches the threshold you specify.

Note: The values of both `MaxNumMessages` and `MaxNumBytes` are subject to the value of `ReceiveQueueSize`. If the values of `ReceiveQueueSize` and `MaxNumMessages` are 5 and 10, respectively, you can receive up to five rather than 10 messages when `BatchReceive` is used.

The API configured with `BatchReceivePolicy` returns multiple messages at a time.

1. These messages are separated by "###". After receiving them, you can separate them with split tools in different languages.
2. MessageIDs are separated by "###". After receiving the messages, you can separate the MessageIDs with split tools in different languages, so that you can obtain the `MessageID` field information required for calling the `AcknowledgeMessage` API.

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: ReceiveMessage. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Topic | Yes | String | Name of the topic which receives the message. It is better to be the full path of the topic, such as `tenant/namespace/topic` . If it is not specified, `public/default` will be used by default. |
| SubscriptionName | Yes | String | Subscriber name |
| ReceiverQueueSize | No | Integer | Default value: 1000. Messages received by the consumer will first be stored in the `receiverQueueSize` queue to tune the message receiving rate. |
| SubInitialPosition | No | String | A parameter used to determine the position where the consumer initially receives messages. Valid values: `Earliest` (default), `Latest` . |
| MaxNumMessages | No | Integer | This parameter is used to specify the maximum number of received messages in a batch for `BatchReceivePolicy` . The default value is 0, indicating that `BatchReceivePolicy` is disabled. |
| MaxNumBytes | No | Integer | This parameter is used to specify the maximum body size (in bytes) of received messages in a batch for `BatchReceivePolicy` . The default value is 0, indicating that `BatchReceivePolicy` is disabled. |
| Timeout | No | Integer | This parameter is used to specify the maximum wait timeout (in |

| | | | |
|---|---|---|---|
| | | | milliseconds) for receiving a batch of messages for `BatchReceivePolicy`. The default value is 0, indicating that `BatchReceivePolicy` is disabled. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| MessageID | String | Unique primary key used to identify the message |
| MessagePayload | String | Content of the received message |
| AckTopic | String | Provided to the `Ack` API and used to acknowledge messages in the topic |
| ErrorMsg | String | Returned error message. If it is an empty string, no error occurred.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SubName | String | Returned subscriber name, which will be used when an acknowledgment consumer is created.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MessageIDList | String | MessageIDs returned by `BatchReceivePolicy` at a time, which are separated by “###”.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MessagesPayload | String | Message contents returned by `BatchReceivePolicy` at a time, which are separated by “###”.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Receiving messages

#### Input Example

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

```
<Common request parameters>

{
"Topic": "tenant/namespace/topic",
"SubscriptionName": "\"test-sub\""
}
```

**Output Example**

```
{
"Response": {
"RequestId": "36713f94-d07d-4b96-babf-42d139276f23",
"MessageID": "71:12:0:0",
"MessageIDList": "",
"MessagesPayload": "",
"MessagePayload": "hello TDMQ",
"SubName": "xx",
"AckTopic": "persistent://tenant/namespace/topic",
"ErrorMsg": "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.

- 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

## 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 |
| --- | --- |
| FailedOperation.CreateProducerError | An error occurred while creating the producer. |
| FailedOperation.CreatePulsarClientError | An error occurred while creating the TDMQ client. |
| FailedOperation.MaxMessageSizeError | The message size exceeds the upper limit of 1 MB. |
| FailedOperation.MessageIDError | The uploaded `msgID` is incorrect. |
| FailedOperation.ReceiveError | An error occurred while receiving the message. |
| FailedOperation.ReceiveTimeout | Message receiving timed out. Please try again. |
| FailedOperation.SendMessageTimeoutError | Message sending timed out. |
| FailedOperation.TopicTypeError | Please use a partition topic. |
| InvalidParameter.TenantNotFound | The uploaded tenant name is incorrect. |
| InvalidParameter.TokenNotFound | The correct token was not obtained. |
| InvalidParameterValue.TopicNotFound | The uploaded topic name is incorrect. |

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# Cluster APIs
# DescribePulsarProInstanceDetail

Last updated：2023-08-09 14:43:31

## 1. API Description

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

This API is used to obtain the information of a TDMQ for Pulsar pro cluster instance.

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

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

## 2. Input Parameters

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

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| Action | Yes | String | Common Params. The value used for this API: DescribePulsarProInstanceDetail. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |

## 3. Output Parameters

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

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| | | |
|---|---|---|
| ClusterInfo | PulsarProClusterInfo | Cluster information |
| NetworkAccessPointInfos | Array of PulsarNetworkAccessPointInfo | Cluster network access point information<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ClusterSpecInfo | PulsarProClusterSpecInfo | Cluster specification information<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Obtaining the details of TDMQ for Pulsar pro cluster instances

#### Input Example

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

{
"ClusterId": "pulsar-test"
}
```

#### Output Example

```
{
"Response": {
"ClusterSpecInfo": {
"MaxTopics": 1,
"MaxNamespaces": 1,
"SpecName": "xx",
"MaxBandWidth": 1,
"ScalableTps": 1,
"MaxTps": 1
},
"NetworkAccessPointInfos": [
{
```

```
"SubnetId": "xx",
"InstanceId": "xx",
"Endpoint": "xx",
"VpcId": "xx",
"RouteType": 1
}
],
"ClusterInfo": {
"Status": 0,
"Remark": "xx",
"NodeDistribution": [
{
"NodeCount": 1,
"ZoneId": "xx",
"ZoneName": "xx"
}
],
"ClusterName": "xx",
"ClusterId": "xx",
"MaxStorage": 1,
"Version": "xx",
"CreateTime": "xx"
},
"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.

- 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 NodeJS
- 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 | Operation failed. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# DescribePulsarProInstances

Last updated：2023-08-09 14:43:31

## 1. API Description

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

This API is used to query the list of the purchased TDMQ for Pulsar pro instances.

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

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

## 2. Input Parameters

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

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| Action | Yes | String | Common Params. The value used for this API: DescribePulsarProInstances. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Filters.N | No | Array of Filter | Query condition filter |
| Limit | No | Integer | The maximum number of queried items, which defaults to `20` . |
| Offset | No | Integer | Start offset for query |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TotalCount | Integer | The total number of unpaginated items |
| Instances | Array of PulsarProInstance | Instance information list |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Obtaining the instance list

#### Input Example

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

{
"Limit": 1,
"Filters": [
{
"Values": [
"xx"
],
"Name": "xx"
}
],
"Offset": 1
}
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "xx",
"Instances": [
{
```

```
"Status": 1,
"PayMode": 1,
"Remark": "xx",
"VpcId": "xx",
"AutoRenewFlag": 1,
"InstanceId": "xx",
"ScalableTps": 1,
"ExpireTime": 1,
"InstanceVersion": "xx",
"MaxStorage": 1,
"SpecName": "xx",
"ConfigDisplay": "xx",
"SubnetId": "xx",
"InstanceName": "xx",
"MaxTps": 1
}
]
}
}
```


# 5. Developer Resources

### SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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

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

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# DescribeRabbitMQNodeList

Last updated：2023-04-18 14:53:13

## 1. API Description

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

This API is used to query the list of TDMQ for RabbitMQ exclusive cluster nodes.

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: DescribeRabbitMQNodeList. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | TDMQ for RabbitMQ cluster ID |
| Offset | No | Integer | Offset |
| Limit | No | Integer | The maximum entries per page |
| NodeName | No | String | Node name for fuzzy search |
| Filters.N | No | Array of Filter | Name and value of a filter.<br>Currently, only the `nodeStatus` filter is supported. |

| | | | |
|---|---|---|---|
| | | | Valid values: `running` , `down` .<br>It is an array type and can contain multiple filters. |
| SortElement | No | String | Sorting by a specified element.<br>Valid values: `cpuUsage` , `diskUsage` . |
| SortOrder | No | String | Sorting order.<br>Valid values: `ascend` , `descend` . |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | The number of clusters |
| NodeList | Array of RabbitMQPrivateNode | Cluster list<br>Note: This field may return null, indicating that no valid value can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the list of TDMQ for RabbitMQ exclusive cluster nodes

This example shows you how to query the list of TDMQ for RabbitMQ exclusive cluster nodes.

#### Input Example

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

{
"InstanceId": "amqp-testtesttest",
"Limit": 1,
"Offset": 1
}
```

### Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "xx",
"NodeList": [
{
"NodeName": "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.

- Tencent Cloud SDK 3.0 for Python
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- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |

| | |
|---|---|
| ResourceNotFound.Cluster | The cluster does not exist. |

# DescribeClusters

Last updated：2023-08-09 14:43:32

## 1. API Description

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

This API is used to get the list of 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: DescribeClusters. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Offset | No | Integer | Start offset, which defaults to 0 if left empty. |
| Limit | No | Integer | The number of results to be returned, which defaults to 10 if left empty. The maximum value is 20. |
| ClusterIdList.N | No | Array of String | Filter by cluster ID. |
| IsTagFilter | No | Boolean | Whether to filter by tag. |
| Filters.N | No | Array of Filter | Filter. Currently, you can filter by tag. |

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# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TotalCount | Integer | The number of clusters. |
| ClusterSet | Array of Cluster | Cluster information list |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Getting the cluster list

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeClusters
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"ClusterSet": [
{
"MaxQps": 10000,
"HealthyInfo": "xx",
"MaxTopicNum": 1000,
"MaxStorageCapacity": 100,
"MaxMessageDelayInSeconds": 0,
"Version": "xx",
"Status": 1,
"Tags": [
{
"TagKey": "xx",
"TagValue": "xx"
}
],
"ClusterId": "xx",
```

```
"PayMode": 0,
"EndPointNum": 0,
"Healthy": 1,
"TopicNum": 0,
"Remark": "xx",
"NamespaceNum": 0,
"PublicEndPoint": "xx",
"MaxPublishRateInBytes": 0,
"VpcEndPoint": "xx",
"MaxDispatchRateInBytes": 0,
"PublicAccessEnabled": true,
"ClusterName": "xx",
"MaxPublishRateInMessages": 0,
"UsedStorageBudget": 0,
"MessageRetentionTime": 86400,
"MaxNamespaceNum": 10,
"CreateTime": "xx",
"MaxDispatchRateInMessages": 0
}
],
"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.

- 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

## 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 |
| --- | --- |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# DescribeClusterDetail

Last updated：2023-08-09 14:43:32

## 1. API Description

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

This API is used to get the details of a cluster.

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: DescribeClusterDetail. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| ClusterSet | Cluster | Cluster details |

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Getting cluster details

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeClusterDetail
&ClusterId=pulsar-xxxxxxxx
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"ClusterSet": {
"ClusterId": "pulsar-xxxxxxxx",
"ClusterName": "sdfsdfsdf",
"Remark": "",
"EndPointNum": 0,
"CreateTime": "2021-01-13 15:43:29",
"Healthy": 1,
"HealthyInfo": "",
"Status": 1,
"MaxNamespaceNum": 50,
"MaxTopicNum": 1000,
"MaxQps": 10000,
"MessageRetentionTime": 86400,
"VpcEndPoint": "xx",
"NamespaceNum": 0,
"Version": "xx",
"PublicEndPoint": "xx",
"MaxStorageCapacity": 100
},
"RequestId": "020eb354-144e-4cf8-9607-c6771cd24421"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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.Cluster | The cluster does not exist. |

# DeleteCluster

Last updated：2023-08-09 14:43:32

## 1. API Description

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

This API is used to delete a cluster.

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: DeleteCluster. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | ID of the cluster to be deleted. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| ClusterId | String | Cluster ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for |

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| | | |
|---|---|---|
| | | locating a problem. |

# 4. Example

### Example1 Deleting cluster

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteCluster
&ClusterId=pulsar-xxxxxxxx
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"ClusterId": "pulsar-5r59xd4vnx",
"RequestId": "0f368d07-3648-4546-9c51-65dad19a3234"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### 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 |
| --- | --- |
| FailedOperation | Operation failed. |
| FailedOperation.DeleteCluster | Failed to delete the cluster. |
| FailedOperation.NamespaceInUse | You must clear the associated namespace before proceeding. |
| FailedOperation.RoleInUse | You must clear the associated role data before proceeding. |
| FailedOperation.VpcInUse | You must clear the associated VPC routing data before proceeding. |
| OperationDenied.DefaultEnvironment | Operations on the default environment are not allowed. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# ModifyCluster

Last updated：2023-08-09 14:43:31

## 1. API Description

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

This API is used to update a cluster.

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: ModifyCluster. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | ID of the Pulsar cluster to be updated. |
| ClusterName | No | String | Updated cluster name. |
| Remark | No | String | Remarks. |
| PublicAccessEnabled | No | Boolean | Enables public network access, which can only be `true`. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| ClusterId | String | Pulsar cluster ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Updating cluster

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ModifyCluster
&ClusterId=pulsar-xxxxxxxx
&Remark=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"ClusterId": "pulsar-5r59xd4vnx",
"RequestId": "b84bf1d8-2794-4c20-a50f-02b7a4698814"
}
}
```

# 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 | Operation failed. |
| InvalidParameterValue.ClusterNameDuplication | The cluster name already exists. |
| MissingParameter | Missing parameter. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# DescribeBindClusters

Last updated：2023-08-09 14:43:32

## 1. API Description

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

This API is used to get the list of dedicated clusters bound to 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: DescribeBindClusters. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TotalCount | Integer | The number of dedicated clusters |
| ClusterSet | Array of | List of dedicated clusters |

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| | | |
|---|---|---|
| | BindCluster | |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Getting the list of dedicated clusters

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeBindClusters
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"ClusterSet": [
{
"ClusterName": "xxx"
}
],
"RequestId": "32a34a4c-58a8-445f-80ff-7152399b18f7"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS

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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 | Operation failed. |
| ResourceUnavailable | The resource is unavailable. |
| ResourceUnavailable.SystemUpgrade | The system is being upgraded. |
| ResourcesSoldOut | The resources have been sold out. |
| UnauthorizedOperation | Unauthorized operation. |
| UnknownParameter | Unknown parameter error. |
| UnsupportedOperation | Unsupported operation. |

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# CreateCluster

Last updated：2023-08-09 14:43:32

## 1. API Description

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

This API is used to create a cluster.

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: CreateCluster. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterName | Yes | String | Cluster name, which can contain up to 16 letters, digits, hyphens, and underscores. |
| BindClusterId | No | Integer | ID of your dedicated physical cluster. If it is not passed in, cluster resources will be created in a public cluster by default. |
| Remark | No | String | Remarks (up to 128 characters). |
| Tags.N | No | Array of Tag | Cluster tag list (deprecated). |

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| | | | |
|---|---|---|---|
| PublicAccessEnabled | No | Boolean | Whether to enable public network access. If this parameter is left empty, the feature will be enabled by default |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| ClusterId | String | Cluster ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating cluster

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=CreateCluster
&ClusterName=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"ClusterId": "pulsar-5r59xd4vnx",
"RequestId": "c1e66353-c87b-4a30-804d-94c6c2c8bac5"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.CreateCluster | Failed to create the cluster. |
| InternalError.SystemError | System error. |
| LimitExceeded.Clusters | The number of clusters under the instance exceeds the limit. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceInUse.Cluster | The cluster already exists. |
| ResourceUnavailable | The resource is unavailable. |
| ResourceUnavailable.CreateFailed | Assignment exception. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# Namespace APIs
# ModifyEnvironmentAttributes

Last updated：2023-08-09 14:43:27

## 1. API Description

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

This API is used to modify the attributes of the specified namespace.

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: ModifyEnvironmentAttributes. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Namespace name. |
| MsgTTL | Yes | Integer | Retention period for unconsumed messages in seconds. Value range: 60s to 1,296,000s (or 15 days). |
| Remark | No | String | Remarks (up to 128 characters). |

| | | | |
|---|---|---|---|
| ClusterId | No | String | Cluster ID |
| RetentionPolicy | No | RetentionPolicy | Message retention policy |
| AutoSubscriptionCreation | No | Boolean | Whether to enable "Auto-Create Subscription" |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| EnvironmentId | String | Namespace name. |
| MsgTTL | Integer | TTL for unconsumed messages in seconds. |
| Remark | String | Remarks (up to 128 characters).<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NamespaceId | String | Namespace ID<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Modifying the attributes of a specified namespace

This example shows you how to modify the attributes of a specified namespace.

#### Input Example

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

{
"EnvironmentId": "test",
"MsgTTL": "100",
"ClusterId": "pulsar-xxxxxxxx"
}
```

### Output Example

```
{
"Response": {
"EnvironmentId": "test",
"NamespaceId": "namespace-5r59xen74x",
"MsgTTL": 100,
"Remark": "",
"RequestId": "7db00a30-933c-4f6f-bba9-79cdf6be7d8c"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| | |

| | |
|---|---|
| FailedOperation | Operation failed. |
| FailedOperation.SetRetentionPolicy | Failed to set the message retention policy. |
| FailedOperation.SetTTL | Failed to configure the message TTL. |
| FailedOperation.UpdateEnvironment | Failed to update the environment. |
| InternalError.BrokerService | The broker service is exceptional. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| InvalidParameterValue.TTL | The message TTL value is invalid. |
| LimitExceeded.RetentionTime | The message retention period limit has been exceeded. Please enter a valid value. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| OperationDenied.DefaultEnvironment | Operations on the default environment are not allowed. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceNotFound.Namespace | The namespace does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# DescribeEnvironments

Last updated：2023-08-09 14:43:27

## 1. API Description

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

This API is used to get the list of namespaces under a tenant.

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: DescribeEnvironments. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | No | String | Fuzzy search by namespace name. |
| Offset | No | Integer | Offset, which defaults to 0 if left empty. |
| Limit | No | Integer | The number of results to be returned, which defaults to 10 if left empty. The maximum value is 20. |
| ClusterId | No | String | Pulsar cluster ID |
| Filters.N | No | Array of Filter | * EnvironmentId<br>Filter by namespace for exact query. |

| | | | |
|---|---|---|---|
| | | | Type: String<br>Required: No |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | The number of namespaces. |
| EnvironmentSet | Array of Environment | Array of namespace sets. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Getting the namespace list

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeEnvironments
&EnvironmentId=default
&Offset=0
&Limit=10
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"EnvironmentSet": [
{
"EnvironmentId": "xx",
"Remark": "xx",
"NamespaceName": "xx",
"UpdateTime": "2020-09-22 00:00:00",
"NamespaceId": "xx",
"RetentionPolicy": {
```

```
"TimeInMinutes": 0,
"SizeInMB": 0
},
"TopicNum": 0,
"MsgTTL": 0,
"CreateTime": "2020-09-22 00:00:00"
}
],
"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.

- 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| InternalError.SystemError | System error. |

| | |
|---|---|
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# DescribeEnvironmentAttributes

Last updated：2023-08-09 14:43:27

## 1. API Description

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

This API is used to get the attributes of the specified namespace.

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: DescribeEnvironmentAttributes. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| ClusterId | No | String | Pulsar cluster ID |

## 3. Output Parameters

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

| | | |
|---|---|---|
| MsgTTL | Integer | TTL for unconsumed messages in seconds. Maximum value: 1296000 seconds (i.e., 15 days). |
| RateInByte | Integer | Consumption rate limit in bytes/second. 0: unlimited. |
| RateInSize | Integer | Consumption rate limit in messages/second. 0: unlimited. |
| RetentionHours | Integer | Retention policy for consumed messages in hours. 0: deleted immediately after consumption. |
| RetentionSize | Integer | Retention policy for consumed messages in GB. 0: deleted immediately after consumption. |
| EnvironmentId | String | Environment (namespace) name. |
| Replicas | Integer | Number of replicas. |
| Remark | String | Remarks. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Listing specified namespace attributes

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeEnvironmentAttributes
&EnvironmentId=test1
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"MsgTTL": 2000,
"RateInByte": 0,
"RateInSize": 0,
"Replicas": 2,
"RetentionHours": 0,
"RetentionSize": 0,
"EnvironmentId": "test1",
"Remark": "Remarks",
"RequestId": "dec113a8-599a-4e70-b143-14425d48ffc4"
```

```
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation.GetEnvironmentAttributesFailed | Failed to get the environment attributes. |
| InternalError.BrokerService | The broker service is exceptional. |
| InternalError.GetAttributesFailed | Failed to get attributes. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |

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| | |
|---|---|
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |

# DeleteEnvironments

Last updated：2023-08-09 14:43:28

## 1. API Description

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

This API is used to batch delete namespaces under a tenant.

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: DeleteEnvironments. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentIds.N | Yes | Array of String | Array of environments (namespaces). Up to 20 environments can be deleted at a time. |
| ClusterId | No | String | Pulsar cluster ID |

## 3. Output Parameters

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

| | | |
|---|---|---|
| EnvironmentIds | Array of String | Array of environments (namespaces) successfully deleted. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting a namespace

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteEnvironments
&EnvironmentIds.0=test1
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"EnvironmentIds": [
"test1"
],
"RequestId": "db8bd520-496e-4e7c-a4a1-e7414d3c315c"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET

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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 |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation.DeleteEnvironments | Failed to delete the environment. |
| FailedOperation.DeleteNamespace | Failed to delete the namespace. |
| FailedOperation.RoleInUse | You must clear the associated role data before proceeding. |
| FailedOperation.TopicInUse | You must clear the associated topic data before proceeding. |
| InternalError.SystemError | System error. |
| InvalidParameter | Incorrect parameter. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| OperationDenied.DefaultEnvironment | Operations on the default environment are not allowed. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |

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# CreateEnvironment

Last updated：2023-08-09 14:43:28

## 1. API Description

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

This API is used to create a TDMQ namespace.

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: CreateEnvironment. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name, which can contain up to 16 letters, digits, hyphens, and underscores. |
| MsgTTL | Yes | Integer | Retention period for unconsumed messages in seconds. Value range: 60s to 1,296,000s (or 15 days). |
| Remark | No | String | Remarks (up to 128 characters). |

| | | | |
|---|---|---|---|
| ClusterId | No | String | Pulsar cluster ID |
| RetentionPolicy | No | RetentionPolicy | Message retention policy |
| AutoSubscriptionCreation | No | Boolean | Whether to enable "Auto-Create Subscription" |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| EnvironmentId | String | Environment (namespace) name. |
| MsgTTL | Integer | TTL for unconsumed messages in seconds. |
| Remark | String | Remarks (up to 128 characters).<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NamespaceId | String | Namespace ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Creating a namespace

This example shows you how to create a namespace. You can enable "Auto-Create Subscription" as needed when creating the namespace.

#### Input Example

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

{
"EnvironmentId": "test1",
"MsgTTL": "100",
"AutoSubscriptionCreation": true,
```

```
"ClusterId": "pulsar-xxxxxxxx"
}
```

#### Output Example

```
{
"Response": {
"EnvironmentId": "test1",
"NamespaceId": "namespace-8893gp3428",
"MsgTTL": 100,
"Remark": "",
"RequestId": "0843ea4f-d6ba-463b-952c-75708a7e8901"
}
}
```

## 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

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

| | |
|---|---|
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.CreateEnvironment | Failed to create the environment. |
| FailedOperation.CreateNamespace | Failed to create the namespace. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| InvalidParameterValue.TTL | The message TTL value is invalid. |
| LimitExceeded.Environments | The number of environments under the instance exceeds the limit. |
| LimitExceeded.Namespaces | The number of namespaces under the instance exceeds the limit. |
| LimitExceeded.RetentionSize | The remaining quota has been exceeded. Please enter a valid value. |
| LimitExceeded.RetentionTime | The message retention period limit has been exceeded. Please enter a valid value. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| OperationDenied.DefaultEnvironment | Operations on the default environment are not allowed. |
| ResourceInUse | The resource is in use. |
| ResourceInUse.Namespace | A namespace with the same name already exists. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# DescribeEnvironmentRoles

Last updated：2023-08-09 14:43:27

## 1. API Description

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

This API is used to get the list of namespace 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: DescribeEnvironmentRoles. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | No | String | Environment/namespace name (required). |
| Offset | No | Integer | Offset, which defaults to 0 if left empty. |
| Limit | No | Integer | The number of results to be returned, which defaults to 10 if left empty. The maximum value is 20. |
| ClusterId | No | String | Pulsar cluster ID (required). |
| RoleName | No | String | Role name. |
| | | | |

| | | | |
|---|---|---|---|
| Filters.N | No | Array of Filter | * RoleName<br>Filter by role name for exact query.<br>Type: String<br>Required: No |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | The number of records. |
| EnvironmentRoleSets | Array of EnvironmentRole | Namespace role set. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Getting the list of namespace roles

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeEnvironmentRoles
&EnvironmentId=default
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"EnvironmentRoleSets": [
{
"EnvironmentId": "default",
"RoleName": "test_role",
"Permissions": [
"produce",
"consume"
],
"RoleDescribe": "Remark1",
```

```
"CreateTime": "2020-08-03 19:46:37",
"UpdateTime": "2020-08-04 15:59:29"
}
],
"RequestId": "gggxxxx"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |

| | |
|---|---|
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceNotFound.Role | The role does not exist. |

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# DeleteRocketMQNamespace

Last updated：2023-08-09 14:43:28

## 1. API Description

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

This API is used to delete a RocketMQ namespace.

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: DeleteRocketMQNamespace. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace name |

## 3. Output Parameters

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

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting namespace

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=DeleteRocketMQNamespace
&ClusterId=rocketmq-rd3545bkkj49
&NamespaceId=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "ab274271-a599-4e1d-b044-f3d03699e32a"
}
}
```

# 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 NodeJS
- 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 | Operation failed. |
| FailedOperation.RoleInUse | You must clear the associated role data before proceeding. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# Topic APIs
# ModifyTopic

Last updated：2023-08-09 14:43:18

## 1. API Description

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

This API is used to modify the topic remarks and number of partitions.

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: ModifyTopic. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| TopicName | Yes | String | Topic name. |
| Partitions | Yes | Integer | Number of partitions, which must be equal to or greater than the original number of partitions. To maintain the original number of partitions, enter the original number. Modifying the number of partitions will take effect only for non-globally sequential messages. There can be up to 128 partitions. |

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| | | | |
|---|---|---|---|
| Remark | No | String | Remarks (up to 128 characters). |
| ClusterId | No | String | Pulsar cluster ID |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| Partitions | Integer | Number of partitions |
| Remark | String | Remarks (up to 128 characters). |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying topic attributes

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ModifyTopic
&EnvironmentId=default
&TopicName=test_topic
&Partitions=3
&Remark=Change partition to 3
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"Partitions": 3,
"Remark": "Change partition to 3",
"RequestId": "c276a96f-1612-47ad-9562-da06d4fdf1ed"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.GetTopicPartitionsFailed | Failed to get the number of topic partitions. |
| FailedOperation.UpdateTopic | Failed to update the topic. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |

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# DescribeTopics

Last updated：2023-08-09 14:43:18

## 1. API Description

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

This API is used to get the list of topics under an environment.

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: DescribeTopics. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| TopicName | No | String | Fuzzy match by topic name. |
| Offset | No | Integer | Offset, which defaults to 0 if left empty. |
| Limit | No | Integer | The number of results to be returned, which defaults to 10 if left empty. The maximum value is 20. |
| TopicType | No | Integer | Topic type description:<br>0: Non-persistent and non-partitioned topic;<br>1: Non-persistent and partitioned topic; |

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| | | | |
|---|---|---|---|
| | | | 2: Persistent and non-partitioned topic;<br>3: Persistent and partitioned topic. |
| ClusterId | No | String | Pulsar cluster ID. |
| Filters.N | No | Array of Filter | * TopicName<br>Query by topic name for exact search.<br>Type: String<br>Required: No |
| TopicCreator | No | Integer | Topic creator:<br>1: User<br>2: System |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TopicSets | Array of Topic | Array of topic sets. |
| TotalCount | Integer | The number of topics. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Obtaining the list of topics under the environment

This example shows you how to obtain the list of topics under the environment.

#### Input Example

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

{
"EnvironmentId": "abc",
```

```
"TopicName": "abc",
"Offset": 1,
"Limit": 1,
"TopicType": 1,
"ClusterId": "abc",
"Filters": [
{
"Name": "abc",
"Values": [
"abc"
]
}
],
"TopicCreator": 1
}
```

### Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "abc",
"TopicSets": [
{
"PulsarTopicType": 0,
"TopicType": 1,
"ProducerCount": "abc",
"ConsumerLimit": "abc",
"ConsumerCount": "abc",
"LastLedgerCreatedTimestamp": "14578964532",
"MsgThroughputIn": "abc",
"UpdateTime": "2020-09-22 00:00:00",
"AverageMsgSize": "abc",
"Partitions": 1,
"Remark": "abc",
"LastConfirmedEntry": "abc",
"TotalSize": "1",
"NumberOfEntries": "abc",
"MsgRateOut": "abc",
"ProducerLimit": "abc",
"EnvironmentId": "abc",
"TopicName": "abc",
"MsgRateIn": "abc",
"MsgThroughputOut": "abc",
"SubTopicSets": [
{
```

```
"TopicType": 1,
"ProducerCount": "1",
"LastConfirmedEntry": "abc",
"TotalSize": "1",
"NumberOfEntries": "abc",
"ConsumerCount": "1",
"MsgRateOut": "abc",
"AverageMsgSize": "1",
"MsgThroughputIn": "abc",
"MsgRateIn": "abc",
"Partitions": 0,
"LastLedgerCreatedTimestamp": "124567885324",
"MsgThroughputOut": "abc"
}
],
"CreateTime": "2020-09-22 00:00:00"
}
]
}
}
```


# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| InternalError.SystemError | System error. |
| InvalidParameter.InvalidAdminUrl | Invalid management API address |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |

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# DeleteTopics

Last updated：2023-08-09 14:43:18

## 1. API Description

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

This API is used to batch delete topics.

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: DeleteTopics. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicSets.N | Yes | Array of TopicRecord | Topic set. Up to 20 topics can be deleted at a time. |
| ClusterId | No | String | Pulsar cluster ID. |
| EnvironmentId | No | String | Environment (namespace) name. |
| Force | No | Boolean | Whether to forcibly delete a topic. Default value: `false` . |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TopicSets | Array of TopicRecord | Array of deleted topics. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Deleting a topic list

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteTopics
&TopicSets.0.EnvironmentId=default
&TopicSets.0.TopicName=cloud_test_1
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TopicSets": [
{
"EnvironmentId": "default",
"TopicName": "cloud_test_1"
}
],
"RequestId": "5f4eabe4-94f2-4f91-8285-86f24ef8bcfa"
}
}
```

## 5. Developer Resources

### SDK

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- Tencent Cloud SDK 3.0 for Java
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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.DeleteTopics | Failed to delete the topic. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| OperationDenied.DefaultEnvironment | Operations on the default environment are not allowed. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |

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# CreateTopic

Last updated：2023-08-09 14:43:18

## 1. API Description

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

This API is used to add a message topic in the specified partition and type.

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: CreateTopic. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| TopicName | Yes | String | Topic name, which can contain up to 64 letters, digits, hyphens, and underscores. |
| Partitions | Yes | Integer | The value “1” indicates a non-partitioned topic (a topic with no partitions) will be created. A value between 1 (exclusive) and 128 (inclusive) indicates the partition count of a partitioned topic. |
| Remark | No | String | Remarks (up to 128 characters). |
| TopicType | No | Integer | This input parameter will be disused soon. You can use `PulsarTopicType` instead. |

| | | | |
|---|---|---|---|
| | | | 0: General message;<br>1: Globally sequential message;<br>2: Partitionally sequential message;<br>3: Retry letter topic;<br>4: Dead letter topic. |
| ClusterId | No | String | Pulsar cluster ID |
| PulsarTopicType | No | Integer | Pulsar topic type.<br>`0` : Non-persistent and non-partitioned<br>`1` : Non-persistent and partitioned<br>`2` : Persistent and non-partitioned<br>`3` : Persistent and partitioned |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| EnvironmentId | String | Environment (namespace) name. |
| TopicName | String | Topic name. |
| Partitions | Integer | Valid value: 0 or 1. Non-partitioned topic: No partitions. A value greater than 1: The partition count of a partitioned topic. `0` is returned for existing non-partitioned topics, and `1` is returned for incremental non-partitioned topics. |
| Remark | String | Remarks (up to 128 characters).<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TopicType | Integer | 0: General message;<br>1: Globally sequential message;<br>2: Partitionally sequential message;<br>3: Retry letter topic;<br>4: Dead letter topic.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Creating a topic

This example shows you how to create a topic.

#### Input Example

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

{
"EnvironmentId": "default",
"Remark": "2-partition general message queue",
"TopicType": "0",
"TopicName": "test_topic",
"Partitions": "2"
}
```

#### Output Example

```
{
"Response": {
"EnvironmentId": "default",
"TopicName": "test_topic",
"Partitions": 2,
"TopicType": 0,
"Remark": "2-partition general message queue",
"RequestId": "d9686bf9-8d7d-4e78-bb44-5140d70a1ffa"
}
}
```

# 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 Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.CreateTopic | Failed to create the topic. |
| InternalError.SystemError | System error. |
| InvalidParameterValue | The parameter value is incorrect. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| LimitExceeded.Topics | The number of topics under the instance exceeds the limit. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceInUse | The resource is in use. |
| ResourceInUse.Topic | A topic with the same name already exists. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# CMQ Message APIs
# SendCmqMsg

Last updated：2023-08-09 14:43:33

## 1. API Description

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

This API is used to send a CMQ message.

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: SendCmqMsg. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| QueueName | Yes | String | Queue name |
| MsgContent | Yes | String | Message content |
| DelaySeconds | Yes | Integer | Delay time |

## 3. Output Parameters

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

| Parameter Name | Type | Description |
| --- | --- | --- |
| Result | Boolean | `true` indicates that the sending is successful |
| MsgId | String | Message ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Sending message

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=SendCmqMsg
&QueueName=test-queue
&MsgContent=test
&DelaySeconds=0
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"Result": true,
"MsgId": "50169152:0:0:-1",
"RequestId": "3593f784-fcfb-4f23-b3dd-4751cba3aec7"
}
}
```

# 5. Developer Resources

### SDK

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- Tencent Cloud SDK 3.0 for Java

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| ResourceNotFound | The resource does not exist. |

# PublishCmqMsg

Last updated：2023-08-09 14:43:33

## 1. API Description

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

This API is used to send a CMQ topic message.

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: PublishCmqMsg. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name |
| MsgContent | Yes | String | Message content. The total message size is up to 1,024 KB. |
| MsgTag.N | No | Array of String | Message tag. You can pass in multiple tags or a single route. Each tag or route can contain up to 64 characters. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| Result | Boolean | `true` indicates that the sending is successful |
| MsgId | String | Message ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Sending a CMQ topic message

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=PublishCmqMsg
&TopicName=test-queue
&MsgContent=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"Result": true,
"MsgId": "50169152:0:0:-1",
"RequestId": "3593f784-fcfb-4f23-b3dd-4751cba3aec7"
}
}
```

# 5. Developer Resources

### SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| ResourceNotFound | The resource does not exist. |

# ClearCmqSubscriptionFilterTags

Last updated：2023-08-09 14:43:33

## 1. API Description

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

This API is used to clear the message tags of a subscriber.

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: ClearCmqSubscriptionFilterTags. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| SubscriptionName | Yes | String | Subscription name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Clearing the message tags of subscriber

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ClearCmqSubscriptionFilterTags
&TopicName=ConnTopic
&SubscriptionName=Queue
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

# 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 | Operation failed. |

# ClearCmqQueue

Last updated：2023-08-09 14:43:33

## 1. API Description

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

This API is used to clear the messages in the CMQ message queue.

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: ClearCmqQueue. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| QueueName | Yes | String | Queue name, which must be unique under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |

## 3. Output Parameters

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

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Clearing messages retained in queue

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ClearCmqQueue
&QueueName=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### 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 |
| --- | --- |
| FailedOperation | Operation failed. |
| ResourceNotFound | The resource does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# CMQ Management APIs
# UnbindCmqDeadLetter

Last updated：2023-08-09 14:43:33

## 1. API Description

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

This API is used to unbind a CMQ dead letter queue.

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: UnbindCmqDeadLetter. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| SourceQueueName | Yes | String | Source queue name of dead letter policy. Calling this API will clear the dead letter queue policy of this queue. |

## 3. Output Parameters

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

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Unbinding dead letter queue

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=UnbindCmqDeadLetter
&SourceQueueName=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

# 5. Developer Resources

### SDK

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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 |
| --- | --- |
| FailedOperation | Operation failed. |

# RewindCmqQueue

Last updated：2023-08-09 14:43:34

## 1. API Description

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

This API is used to rewind a CMQ queue.

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: RewindCmqQueue. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| QueueName | Yes | String | Queue name, which must be unique under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| StartConsumeTime | Yes | Integer | After this time is configured, the `(Batch)receiveMessage` API will consume the messages received after this timestamp in the order in which they are produced. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Rewinding consumption position in queue

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=RewindCmqQueue
&QueueName=test
&StartConsumeTime=1582108595000
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

# 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 | Operation failed. |
| ResourceUnavailable | The resource is unavailable. |

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# ModifyCmqTopicAttribute

Last updated：2023-08-09 14:43:34

## 1. API Description

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

This API is used to modify the attributes of a CMQ topic.

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: ModifyCmqTopicAttribute. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| MaxMsgSize | No | Integer | Maximum message length. Value range: 1024–65536 bytes (i.e., 1–64 KB). Default value: 65536. |
| MsgRetentionSeconds | No | Integer | Message retention period. Value range: 60–86400 seconds (i.e., 1 minute–1 day). Default value: 86400. |
| Trace | No | Boolean | Whether to enable message trace. true: yes; false: no. If |

| | | | |
|---|---|---|---|
| | | | this field is left empty, the feature will not be enabled. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying topic attributes

#### Input Example

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

{
"MaxMsgSize": 1,
"TopicName": "xx",
"Trace": true,
"MsgRetentionSeconds": 1
}
```

#### Output Example

```
{
"Response": {
"RequestId": "8a04c6b1-dec5-4979-b3b2-34ab3b3402b2"
}
}
```

## 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 NodeJS
- 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 | Operation failed. |
| ResourceNotFound.Topic | The topic does not exist. |

# ModifyCmqSubscriptionAttribute

Last updated：2023-08-09 14:43:34

## 1. API Description

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

This API is used to modify the attributes of a CMQ subscription.

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: ModifyCmqSubscriptionAttribute. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| SubscriptionName | Yes | String | Subscription name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| NotifyStrategy | No | String | CMQ push server retry policy in case an error occurs while pushing a message to the endpoint. Valid values:<br>(1) BACKOFF_RETRY: backoff retry, which is to retry at a fixed interval, discard the message after a certain number of retries, |

| | | | |
|---|---|---|---|
| | | | and continue to push the next message.<br>(2) EXPONENTIAL_DECAY_RETRY: exponential decay retry, which is to retry at an exponentially increasing interval, such as 1s, 2s, 4s, 8s, and so on. As a message can be retained in a topic for one day, failed messages will be discarded at most after one day of retry. Default value: EXPONENTIAL_DECAY_RETRY. |
| NotifyContentFormat | No | String | Push content format. Valid values: 1. JSON; 2. SIMPLIFIED, i.e., the raw format. If `Protocol` is `queue`, this value must be `SIMPLIFIED`. If `Protocol` is `HTTP`, both values are acceptable, and the default value is `JSON`. |
| FilterTags.N | No | Array of String | Message body tag (used for message filtering). The number of tags cannot exceed 5, and each tag can contain up to 16 characters. It is used in conjunction with the `MsgTag` parameter of `(Batch)PublishMessage`. Rules: 1. If `FilterTag` is not configured, no matter whether `MsgTag` is configured, the subscription will receive all messages published to the topic; 2. If the array of `FilterTag` values has a value, only when at least one of the values in the array also exists in the array of `MsgTag` values (i.e., `FilterTag` and `MsgTag` have an intersection) can the subscription receive messages published to the topic; 3. If the array of `FilterTag` values has a value, but `MsgTag` is not configured, then no message published to the topic will be received, which can be considered as a special case of rule 2 as `FilterTag` and `MsgTag` do not intersect in this case. The overall design idea of rules is based on the intention of the subscriber. |
| BindingKey.N | No | Array of String | The number of `BindingKey` cannot exceed 5, and the length of each `BindingKey` cannot exceed 64 bytes. This field indicates the filtering policy for subscribing to and receiving messages. Each `BindingKey` includes up to 15 dots (namely up to 16 segments). |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for |

| | | |
|---|---|---|
| | | locating a problem. |

# 4. Example

### Example1 Modifying subscription attributes

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ModifyCmqSubscriptionAttribute
&TopicName=test
&SubscriptionName=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

# 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

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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 | Operation failed. |

# ModifyCmqQueueAttribute

Last updated：2023-08-09 14:43:34

## 1. API Description

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

This API is used to modify the attributes of a CMQ queue.

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: ModifyCmqQueueAttribute. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| QueueName | Yes | String | Queue name, which must be unique under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| MaxMsgHeapNum | No | Integer | Maximum number of heaped messages. The value range is 1,000,000–10,000,000 during the beta test and can be 1,000,000–1,000,000,000 after the product is officially released. The default value is 10,000,000 during the beta test and will be 100,000,000 after the product is officially released. |

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| | | | |
|---|---|---|---|
| PollingWaitSeconds | No | Integer | Long polling wait time for message reception. Value range: 0–30 seconds. Default value: 0. |
| VisibilityTimeout | No | Integer | Message visibility timeout period. Value range: 1–43200 seconds (i.e., 12 hours). Default value: 30. |
| MaxMsgSize | No | Integer | Max message size, which defaults to 1,024 KB for the queue of TDMQ for CMQ and cannot be modified. |
| MsgRetentionSeconds | No | Integer | The max period during which a message is retained before it is automatically acknowledged. Value range: 30-43,200 seconds (30 seconds to 12 hours). Default value: 3600 seconds (1 hour). |
| RewindSeconds | No | Integer | Rewindable time of messages in the queue. Value range: 0-1,296,000s (if message rewind is enabled). The value “0” indicates that message rewind is not enabled. |
| FirstQueryInterval | No | Integer | First query time |
| MaxQueryCount | No | Integer | Maximum number of queries |
| DeadLetterQueueName | No | String | Dead letter queue name |
| MaxTimeToLive | No | Integer | Maximum period in seconds before an unconsumed message expires, which is required if `MaxTimeToLivepolicy` is 1. Value range: 300–43200. This value should be smaller than `MsgRetentionSeconds` (maximum message retention period) |
| MaxReceiveCount | No | Integer | Maximum number of receipts |
| Policy | No | Integer | Dead letter queue policy |
| Trace | No | Boolean | Whether to enable message trace. true: yes; false: no. If this field is left empty, the feature will not be enabled. |
| Transaction | No | Integer | Whether to enable transaction. 1: yes; 0: no |
| RetentionSizeInMB | No | Integer | Queue storage space configured for message rewind. Value range: 10,240-512,000 MB (if message rewind is enabled). The value “0” indicates that message rewind is not enabled. |

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# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Modifying queue attributes

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ModifyCmqQueueAttribute
&QueueName=test
&MaxMsgSize=1024
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

# 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 | Operation failed. |
| FailedOperation.SetRetentionPolicy | Failed to set the message retention policy. |
| FailedOperation.SetTTL | Failed to configure the message TTL. |
| InternalError.BrokerService | The broker service is exceptional. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# DescribeCmqTopics

Last updated：2023-08-09 14:43:34

## 1. API Description

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

This API is used to enumerate all CMQ topics.

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: DescribeCmqTopics. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Offset | No | Integer | Starting position of a queue list to be returned on the current page in case of paginated return. If a value is entered, `limit` must be specified. If this parameter is left empty, 0 will be used by default. |
| Limit | No | Integer | The number of queues to be returned per page in case of paginated return. If this parameter is not passed in, 20 will be used by default. Maximum value: 50. |
| TopicName | No | String | Fuzzy search by `TopicName` |
| TopicNameList.N | No | Array of | Filter by CMQ topic name. |

| | | | |
|---|---|---|---|
| | | String | |
| IsTagFilter | No | Boolean | For filtering by tag, this parameter must be set to `true` . |
| Filters.N | No | Array of Filter | Filter. Currently, you can filter by tag. The tag name must be prefixed with “tag:”, such as “tag: owner”, “tag: environment”, or “tag: business”. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TopicList | Array of CmqTopic | Topic list.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| TotalCount | Integer | The total number of topics. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Enumerating topics (without distinguishing between users)

#### Input Example

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

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

#### Output Example

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

```
"TotalCount": 360,
"TopicList": [
{
"Tags": [],
"TopicId": "topic-catv1v6h",
"TopicName": "QTA-6d1dfa44-5c70-11ea-8575-460d8830b47a",
"CreateUin": 100002742997,
"MsgRetentionSeconds": 86400,
"MaxMsgSize": 65536,
"Qps": 5000,
"FilterType": 1,
"CreateTime": 1583144853,
"LastModifyTime": 1583144874,
"MsgCount": 0
},
{
"Tags": [],
"TopicId": "topic-caysfz7j",
"TopicName": "QTA-8f9162e2-5c6f-11ea-8dea-460d8830b47a",
"CreateUin": 100002742997,
"MsgRetentionSeconds": 86400,
"MaxMsgSize": 1025,
"Qps": 5000,
"FilterType": 1,
"CreateTime": 1583144481,
"LastModifyTime": 1583144484,
"MsgCount": 0
}
],
"RequestId": "104f0831-f81a-4d65-81e4-ff0c6217ae23"
}
}
```


# 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 | Operation failed. |
| FailedOperation.CmqBackendError | CMQ backend error. |

# DescribeCmqTopicDetail

Last updated：2023-08-09 14:43:35

## 1. API Description

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

This API is used to query the details of a CMQ topic.

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: DescribeCmqTopicDetail. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | No | String | Exact match by `TopicName` . |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TopicDescribe | CmqTopic | Topic details |

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

## Example1 Querying CMQ topic details

### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeCmqTopicDetail
&<Common request parameters>
```

### Output Example

```
{
"Response": {
"TopicDescribe": {
"MsgCount": 1,
"TopicId": "xx",
"MaxMsgSize": 1,
"Trace": true,
"Tags": [
{
"TagKey": "xx",
"TagValue": "xx"
}
],
"CreateUin": 1,
"FilterType": 1,
"TenantId": "xx",
"LastModifyTime": 1,
"MsgRetentionSeconds": 1,
"NamespaceName": "xx",
"Qps": 1,
"CreateTime": 1,
"TopicName": "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 |
| --- | --- |
| FailedOperation | Operation failed. |
| FailedOperation.CmqBackendError | CMQ backend error. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# DescribeCmqSubscriptionDetail

Last updated：2023-08-09 14:43:35

## 1. API Description

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

This API is used to query the CMQ subscription 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: DescribeCmqSubscriptionDetail. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| Offset | No | Integer | Starting position of the list of topics to be returned on the current page in case of paginated return. If a value is entered, `limit` is required. If this parameter is left empty, 0 will be used by default |
| Limit | No | Integer | Number of topics to be returned per page in case of paginated return. If this parameter is not passed in, 20 will be used by default. Maximum value: 50. |

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| | | | |
|---|---|---|---|
| SubscriptionName | No | String | Fuzzy search by `SubscriptionName` |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | Total number |
| SubscriptionSet | Array of CmqSubscription | Set of subscription attributes<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying subscription details

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeCmqSubscriptionDetail
&TopicName=Conn
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"SubscriptionSet": [
{
"SubscriptionName": "ConnSub",
"SubscriptionId": "subsc-8y7fn4t2",
"TopicOwner": 0,
"MsgCount": 0,
"LastModifyTime": 1590632987,
"CreateTime": 1590632987,
"BindingKey": null,
"Endpoint": "test1",
```

```
"FilterTags": [],
"Protocol": "queue",
"NotifyStrategy": "EXPONENTIAL_DECAY_RETRY",
"NotifyContentFormat": "SIMPLIFIED"
}
],
"RequestId": "72cd2d9d-d666-45ad-963a-cf5065a1984c"
}
}
```


# 5. Developer Resources

### SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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.CmqBackendError | CMQ backend error. |
| ResourceNotFound.Topic | The topic does not exist. |

# DescribeCmqQueues

Last updated：2023-08-09 14:43:35

## 1. API Description

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

This API is used to query all CMQ queues.

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: DescribeCmqQueues. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Offset | No | Integer | Starting position of a queue list to be returned on the current page in case of paginated return. If a value is entered, `limit` must be specified. If this parameter is left empty, 0 will be used by default. |
| Limit | No | Integer | The number of queues to be returned per page in case of paginated return. If this parameter is not passed in, 20 will be used by default. Maximum value: 50. |
| QueueName | No | String | Filter by `QueueName` |
| QueueNameList.N | No | Array of String | Filter by CMQ queue name. |

| | | | |
|---|---|---|---|
| IsTagFilter | No | Boolean | For filtering by tag, this parameter must be set to `true` . |
| Filters.N | No | Array of Filter | Filter. Currently, you can filter by tag. The tag name must be prefixed with “tag:”, such as “tag: owner”, “tag: environment”, or “tag: business”. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | The number of queues. |
| QueueList | Array of CmqQueue | Queue list.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Enumerating queues (without distinguishing between users)

#### Input Example

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

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

#### Output Example

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

```
"TotalCount": 2005,
"QueueList": [
{
"Tags": [],
"QueueId": "queue-6zs45b15",
"QueueName": "QTA-5cd25c1e-5c7c-11ea-b510-460d8830b47a",
"CreateUin": 100002742997,
"Qps": 5000,
"Bps": 52428800,
"MaxDelaySeconds": 3600,
"MaxMsgHeapNum": 10000000,
"PollingWaitSeconds": 0,
"MsgRetentionSeconds": 345600,
"VisibilityTimeout": 30,
"MaxMsgSize": 65536,
"RewindSeconds": 43200,
"CreateTime": 1583149980,
"LastModifyTime": 1583149980,
"Transaction": false,
"DeadLetterSource": [],
"DeadLetterPolicy": [],
"TransactionPolicy": [],
"ActiveMsgNum": 0,
"InactiveMsgNum": 0,
"DelayMsgNum": 0,
"RewindMsgNum": 0,
"MinMsgTime": 0
}
],
"RequestId": "6bab9048-bc14-4142-80c6-3ec119729bed"
}
}
```


# 5. Developer Resources

## SDK

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- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| ResourceUnavailable | The resource is unavailable. |

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# DescribeCmqQueueDetail

Last updated：2023-04-18 14:53:18

## 1. API Description

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

This API is used to query the details of a CMQ queue.

A maximum of 100 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: DescribeCmqQueueDetail. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| QueueName | Yes | String | Exact match by `QueueName` |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| QueueDescribe | CmqQueue | List of queue details. |

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Obtaining CMQ queue details

This example shows you how to obtain the queue details.

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeCmqQueueDetail
&QueueName=cmq-xxx
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"QueueDescribe": {
"QueueId": "abc",
"QueueName": "abc",
"Qps": 1,
"Bps": 1,
"MaxDelaySeconds": 1,
"MaxMsgHeapNum": 1,
"PollingWaitSeconds": 1,
"MsgRetentionSeconds": 1,
"VisibilityTimeout": 1,
"MaxMsgSize": 1,
"RewindSeconds": 1,
"CreateTime": 1,
"LastModifyTime": 1,
"ActiveMsgNum": 1,
"InactiveMsgNum": 1,
"DelayMsgNum": 1,
"RewindMsgNum": 1,
"MinMsgTime": 1,
"Transaction": true,
"DeadLetterSource": [
{
"QueueId": "abc",
"QueueName": "abc"
}
```

```
],
"DeadLetterPolicy": {
"DeadLetterQueue": "abc",
"Policy": 1,
"MaxTimeToLive": 1,
"MaxReceiveCount": 1
},
"TransactionPolicy": {
"FirstQueryInterval": 1,
"MaxQueryCount": 1
},
"CreateUin": 1,
"Tags": null,
"Trace": true,
"TenantId": "abc",
"NamespaceName": "abc",
"Status": 0,
"MaxUnackedMsgNum": 0,
"MaxMsgBacklogSize": 0,
"RetentionSizeInMB": 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
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| ResourceNotFound | The resource does not exist. |

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# DeleteCmqTopic

Last updated：2023-08-09 14:43:36

## 1. API Description

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

This API is used to delete a CMQ topic.

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: DeleteCmqTopic. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |

## 3. Output Parameters

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

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting a topic

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteCmqTopic
&TopicName=ConnTopic
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "96b28b30-393a-48aa-9f00-07dbe6d86229"
}
}
```

# 5. Developer Resources

### SDK

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- Tencent Cloud SDK 3.0 for C++

### 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 |
| --- | --- |
| FailedOperation | Operation failed. |
| FailedOperation.DeleteCluster | Failed to delete the cluster. |
| ResourceNotFound.Topic | The topic does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# DeleteCmqSubscribe

Last updated：2023-08-09 14:43:36

## 1. API Description

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

This API is used to delete a CMQ subscription.

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: DeleteCmqSubscribe. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| SubscriptionName | Yes | String | Subscription name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting subscription

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteCmqSubscribe
&TopicName=ConnTopic
&SubscriptionName=york
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "f8efab10-0ac6-44cf-8d09-67bb228deaf4"
}
}
```

# 5. Developer Resources

### SDK

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- 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 | Operation failed. |
| FailedOperation.DeleteSubscriptions | Failed to delete the subscription. |
| FailedOperation.DeleteTopics | Failed to delete the topic. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# DeleteCmqQueue

Last updated：2023-08-09 14:43:36

## 1. API Description

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

This API is used to delete a CMQ queue.

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: DeleteCmqQueue. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| QueueName | Yes | String | Queue name, which must be unique under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |

## 3. Output Parameters

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

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| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting a queue

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteCmqQueue
&QueueName=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

# 5. Developer Resources

### SDK

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### 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 |
| --- | --- |
| FailedOperation | Operation failed. |
| FailedOperation.DeleteCluster | Failed to delete the cluster. |
| FailedOperation.DeleteTopics | Failed to delete the topic. |
| ResourceNotFound | The resource does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# CreateCmqTopic

Last updated：2023-08-09 14:43:36

## 1. API Description

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

This API is used to create a CMQ topic.

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: CreateCmqTopic. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| MaxMsgSize | No | Integer | Maximum message length. Value range: 1024–65536 bytes (i.e., 1–64 KB). Default value: 65536. |
| FilterType | No | Integer | Used to specify the message match policy for the topic. 1: tag match policy (default value); 2: routing match policy. |
| MsgRetentionSeconds | No | Integer | Message retention period. Value range: 60–86400 seconds |

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| | | | |
|---|---|---|---|
| | | | (i.e., 1 minute–1 day). Default value: 86400. |
| Trace | No | Boolean | Whether to enable message trace. true: yes; false: no. If this field is left empty, the feature will not be enabled. |
| Tags.N | No | Array of Tag | Tag array. |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TopicId | String | Topic ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a topic

#### Input Example

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

{
"TopicName": "ConnTopic"
}
```

#### Output Example

```
{
"Response": {
"TopicId": "topic-gzz05csc",
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

### Example2 Sample

#### Input Example

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

{
"TopicName": "testtopic"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "ae412902-bb35-4237-955d-3e1f9901e0cc",
"TopicId": "cmqt-7jwedr3jqb54"
}
}
```

# 5. Developer Resources

## SDK

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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 |
| --- | --- |
| FailedOperation | Operation failed. |
| FailedOperation.CreateCluster | Failed to create the cluster. |
| FailedOperation.CreateTopic | Failed to create the topic. |
| FailedOperation.SetRetentionPolicy | Failed to set the message retention policy. |
| FailedOperation.SetTTL | Failed to configure the message TTL. |
| InternalError.BrokerService | The broker service is exceptional. |
| LimitExceeded.Topics | The number of topics under the instance exceeds the limit. |
| ResourceInUse | The resource is in use. |
| ResourceInUse.Topic | A topic with the same name already exists. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceUnavailable | The resource is unavailable. |
| ResourceUnavailable.CreateFailed | Assignment exception. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# CreateCmqSubscribe

Last updated：2023-08-09 14:43:36

## 1. API Description

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

This API is used to create a CMQ subscription.

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: CreateCmqSubscribe. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| TopicName | Yes | String | Topic name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| SubscriptionName | Yes | String | Subscription name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter. |
| Protocol | Yes | String | Subscription protocol. Currently, two protocols are supported: HTTP and queue. To use the HTTP protocol, you need to build your own web server to receive messages. With the queue |

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| | | | |
|---|---|---|---|
| | | | protocol, messages are automatically pushed to a CMQ queue and you can pull them concurrently. |
| Endpoint | Yes | String | `Endpoint` for notification receipt, which is distinguished by `Protocol`. For `http`, `Endpoint` must begin with `http://` and `host` can be a domain name or IP. For `Queue`, enter `QueueName`. Note that currently the push service cannot push messages to a VPC; therefore, if a VPC domain name or address is entered for `Endpoint`, pushed messages will not be received. Currently, messages can be pushed only to the public network and classic network. |
| NotifyStrategy | No | String | CMQ push server retry policy in case an error occurs while pushing a message to `Endpoint`. Valid values: 1. BACKOFF_RETRY: backoff retry, which is to retry at a fixed interval, discard the message after a certain number of retries, and continue to push the next message; 2. EXPONENTIAL_DECAY_RETRY: exponential decay retry, which is to retry at an exponentially increasing interval, such as 1s, 2s, 4s, 8s, and so on. As a message can be retained in a topic for one day, failed messages will be discarded at most after one day of retry. Default value: EXPONENTIAL_DECAY_RETRY. |
| FilterTag.N | No | Array of String | Message body tag (used for message filtering). The number of tags cannot exceed 5, and each tag can contain up to 16 characters. It is used in conjunction with the `MsgTag` parameter of `(Batch)PublishMessage`. Rules: 1. If `FilterTag` is not configured, no matter whether `MsgTag` is configured, the subscription will receive all messages published to the topic; 2. If the array of `FilterTag` values has a value, only when at least one of the values in the array also exists in the array of `MsgTag` values (i.e., `FilterTag` and `MsgTag` have an intersection) can the subscription receive messages published to the topic; 3. If the array of `FilterTag` values has a value, but `MsgTag` is not configured, then no message published to the topic will be received, which can be considered as a special case of rule 2 as `FilterTag` and `MsgTag` do not intersect in this case. The overall design idea of rules is based on the intention of the subscriber. |
| BindingKey.N | No | Array of String | The number of `BindingKey` cannot exceed 5, and the length of each `BindingKey` cannot exceed 64 bytes. This field indicates the filtering policy for subscribing to and |

| | | | |
|---|---|---|---|
| | | | receiving messages. Each `BindingKey` includes up to 15 dots (namely up to 16 segments). |
| NotifyContentFormat | No | String | Push content format. Valid values: 1. JSON; 2. SIMPLIFIED, i.e., the raw format. If `Protocol` is `queue`, this value must be `SIMPLIFIED`. If `Protocol` is `http`, both options are acceptable, and the default value is `JSON`. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| SubscriptionId | String | Subscription ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Creating subscription

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=CreateCmqSubscribe
&TopicName=ConnTopic
&SubscriptionName=ConnSubQueue
&Protocol=queue
&Endpoint=queue_sub
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"SubscriptionId": "subsc-39gyuuhd",
"RequestId": "1620b635-6071-47c7-ac1e-975afe5104a7"
}
}
```

# 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 | Operation failed. |
| FailedOperation.CreateSubscription | Failed to create the subscription. |
| FailedOperation.CreateTopic | Failed to create the topic. |
| ResourceInUse | The resource is in use. |
| ResourceInUse.Subscription | A subscription with the same name already exists. |
| ResourceUnavailable | The resource is unavailable. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# CreateCmqQueue

Last updated：2023-08-09 14:43:37

## 1. API Description

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

This API is used to create a CMQ queue.

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: CreateCmqQueue. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| QueueName | Yes | String | Queue name, which is unique under the same account in a single region. It is a string of up to 64 characters. It can contain letters, digits, and hyphens (-) and must start with a letter. |
| MaxMsgHeapNum | No | Integer | Maximum number of heaped messages. The value range is 1,000,000–10,000,000 during the beta test and can be 1,000,000–1,000,000,000 after the product is officially released. The default value is 10,000,000 during the beta |

| | | | |
|---|---|---|---|
| | | | test and will be 100,000,000 after the product is officially released. |
| PollingWaitSeconds | No | Integer | Long polling wait time for message reception. Value range: 0–30 seconds. Default value: 0. |
| VisibilityTimeout | No | Integer | Message visibility timeout period. Value range: 1–43200 seconds (i.e., 12 hours). Default value: 30. |
| MaxMsgSize | No | Integer | Maximum message length. Value range: 1024–65536 bytes (i.e., 1–64 KB). Default value: 65536. |
| MsgRetentionSeconds | No | Integer | The max period during which a message is retained before it is automatically acknowledged. Value range: 30-43,200 seconds (30 seconds to 12 hours). Default value: 3600 seconds (1 hour). |
| RewindSeconds | No | Integer | Rewindable time of messages in the queue. Value range: 0-1,296,000s (if message rewind is enabled). The value “0” indicates that message rewind is not enabled. |
| Transaction | No | Integer | 1: transaction queue; 0: general queue |
| FirstQueryInterval | No | Integer | First lookback interval |
| MaxQueryCount | No | Integer | Maximum number of lookbacks |
| DeadLetterQueueName | No | String | Dead letter queue name |
| Policy | No | Integer | Dead letter policy. 0: message has been consumed multiple times but not deleted; 1: `Time-To-Live` has elapsed |
| MaxReceiveCount | No | Integer | Maximum receipt times. Value range: 1–1000 |
| MaxTimeToLive | No | Integer | Maximum period in seconds before an unconsumed message expires, which is required if `policy` is 1. Value range: 300–43200. This value should be smaller than `msgRetentionSeconds` (maximum message retention period) |
| Trace | No | Boolean | Whether to enable message trace. true: yes; false: no. If this field is not configured, the feature will not be enabled |
| Tags.N | No | Array of Tag | Tag array. |
| RetentionSizeInMB | No | Integer | Queue storage space configured for message rewind. |

| | | | |
|---|---|---|---|
| | | | Value range: 10,240-512,000 MB (if message rewind is enabled). The value “0” indicates that message rewind is not enabled. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| QueueId | String | `queueId` of a successfully created queue |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Creating a queue

This example shows you how to create a queue.

#### Input Example

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

{
"QueueName": "test"
}
```

#### Output Example

```
{
"Response": {
"QueueId": "queue-ges05csc",
"RequestId": "3e0dff9d-9ed5-47c3-beb2-a42c1d69e1cc"
}
}
```

### Example2 Creating a queue

This example shows you how to create a queue.

#### Input Example

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

{
"QueueName": "test789"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "864b1295-ed7e-45ed-9602-be53ac23177b",
"QueueId": "cmqq-rd42drdeaag9"
}
}
```

## 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### 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 |
| --- | --- |
| FailedOperation | Operation failed. |
| FailedOperation.CreateCluster | Failed to create the cluster. |
| FailedOperation.CreateTopic | Failed to create the topic. |
| FailedOperation.SetRetentionPolicy | Failed to set the message retention policy. |
| FailedOperation.SetTTL | Failed to configure the message TTL. |
| InternalError.BrokerService | The broker service is exceptional. |
| ResourceInUse | The resource is in use. |
| ResourceInUse.Queue | The queue already exists. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceUnavailable | The resource is unavailable. |
| ResourceUnavailable.CreateFailed | Assignment exception. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |
| UnsupportedOperation | Unsupported operation. |

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# Other APIs
# SendRocketMQMessage

Last updated：2023-08-09 14:43:26

## 1. API Description

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

This document is used to send a TDMQ for RocketMQ message.

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: SendRocketMQMessage. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace ID |
| TopicName | Yes | String | Topic name |
| MsgBody | Yes | String | Message content |
| MsgKey | No | String | Message key |

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| | | | |
|---|---|---|---|
| MsgTag | No | String | Message tag |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| Result | Boolean | Message sending result |
| MsgId | String | Message ID<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Sending a TDMQ for RocketMQ message

#### Input Example

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

{
"NamespaceId": "xx",
"ClusterId": "xx",
"TopicName": "xx",
"MsgKey": "xx",
"MsgTag": "xx",
"MsgBody": "xx"
}
```

#### Output Example

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

```
"RequestId": "xx",
"Result": true,
"MsgId": "7F0000013AEC18B4AAC278B640D30002"
}
}
```

# 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 NodeJS
- 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 | Operation failed. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |

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# DescribeBindVpcs

Last updated：2023-08-09 14:43:27

## 1. API Description

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

This API is used to get the tenant-VPC binding relationship.

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: DescribeBindVpcs. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Offset | No | Integer | Offset. If this parameter is left empty, 0 will be used by default. |
| Limit | No | Integer | Number of results to be returned. If this parameter is left empty, 10 will be used by default. The maximum value is 20. |
| ClusterId | No | String | Pulsar cluster ID |

## 3. Output Parameters

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

| Parameter Name | Type | Description |
| --- | --- | --- |
| TotalCount | Integer | Number of records. |
| VpcSets | Array of VpcBindRecord | Set of VPCs. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Getting the tenant-VPC binding relationship

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeBindVpcs
&ClusterId=pulsar-xxxxxxxx
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"VpcSets": [
{
"UniqueVpcId": "vpc-c96rbu5r",
"UniqueSubnetId": "subnet-hiqrqjp6",
"RouterId": "pulsar-xxxxxxxx/vpc-c96rbu5r/subnet-hiqrqjp6",
"Ip": "192.168.0.1",
"Port": 6000,
"Remark": ""
}
],
"TotalCount": 1,
"RequestId": "b9765efb-62dd-4946-b2bd-61e958c0f7a7"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| InvalidParameterValue.NeedMoreParams | A required parameter is missing. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# SendMsg

Last updated：2023-08-09 14:43:26

## 1. API Description

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

This API is used to test message sending. It cannot be used in the production environment.

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: SendMsg. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| TopicName | Yes | String | Topic name. If the topic is a partitioned topic, you need to specify the partition; otherwise, messages will be sent to partition 0 by default, such as `my_topic-partition-0` . |
| MsgContent | Yes | String | Message content, which cannot be empty and can contain up to 5,242,880 bytes. |
| ClusterId | No | String | Pulsar cluster ID |

# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Sending one message

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=SendMsg
&EnvironmentId=default
&TopicName=cloud_test
&MsgContent=one_msg
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "3593f784-fcfb-4f23-b3dd-4751cba3aec7"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.GetTopicPartitionsFailed | Failed to get the number of topic partitions. |
| FailedOperation.SendMsgFailed | Failed to send the message. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# Environment Role APIs
# ModifyRole

Last updated：2023-08-09 14:43:29

## 1. API Description

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

This API is used to modify a role.

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: ModifyRole. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| RoleName | Yes | String | Role name, which can contain up to 32 letters, digits, hyphens, and underscores. |
| Remark | No | String | Remarks (up to 128 characters). |
| ClusterId | No | String | Cluster ID (required) |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RoleName | String | Role name |
| Remark | String | Remarks |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

## Example1 Updating role

### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ModifyRole
&RoleName=test_role
&Remark=Update role
&<Common request parameters>
```

### Output Example

```
{
"Response": {
"RoleName": "test_role",
"Remark": "Remark1",
"RequestId": "gggxxxx"
}
}
```

# 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 Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation.UpdateRole | Failed to update the role. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Role | The role does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# ModifyEnvironmentRole

Last updated：2023-08-09 14:43:29

## 1. API Description

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

This API is used to modify an environment role.

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: ModifyEnvironmentRole. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| RoleName | Yes | String | Role name. |
| Permissions.N | Yes | Array of String | Permissions, which is a non-empty string array of `produce` and `consume` at the most. |
| ClusterId | No | String | Cluster ID (required) |

# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Modifying environment role

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ModifyEnvironmentRole
&RoleName=test_role
&EnvironmentId=default
&Permissions.0=produce
&Permissions.1=consume
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "gggxxxx"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.UpdateEnvironmentRole | Failed to update the environment role. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.EnvironmentRole | The environment role does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# DescribeRoles

Last updated：2023-08-09 14:43:30

## 1. API Description

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

This API is used to get the list of 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: DescribeRoles. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| RoleName | No | String | Fuzzy query by role name |
| Offset | No | Integer | Offset. If this parameter is left empty, 0 will be used by default. |
| Limit | No | Integer | Number of results to be returned. If this parameter is left empty, 10 will be used by default. The maximum value is 20. |
| ClusterId | No | String | Cluster ID (required) |
| Filters.N | No | Array of Filter | * RoleName<br>Filter by role name for exact query. |

| | | | |
|---|---|---|---|
| | | | Type: String<br>Required: no |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | Number of records. |
| RoleSets | Array of Role | Array of roles. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Getting the list of roles

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeRoles
&Offset=0
&Limit=10
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 4,
"RoleSets": [
{
"RoleName": "test_role_3",
"Token": "xxx.eyJzdWIiOiJ0ZXN0X3JvbGVfMyJ9.dbHR8m6gc4L4vZUrodhW_O9bDulZQ6lraNswNL
tcUcY",
"Remark": "",
"CreateTime": "2020-08-04 11:59:06",
"UpdateTime": "2020-08-04 11:59:06"
},
```

```
{
"RoleName": "test_role_2",
"Token": "xxx.eyJzdWIiOiJ0ZXN0X3JvbGVfMiJ9.KTbLPg1ax2HDa51vfWmoDK5AQRmEs-_3da8yU0
O61D0",
"Remark": "",
"CreateTime": "2020-08-03 20:23:52",
"UpdateTime": "2020-08-03 20:23:52"
},
{
"RoleName": "test_role_1",
"Token": "xxx.eyJzdWIiOiJ0ZXN0X3JvbGVfMSJ9.aatGv_WEZK5jqmXNX3dxQA7vWB0igKr_7eQitb
weBoo",
"Remark": "",
"CreateTime": "2020-08-03 19:48:36",
"UpdateTime": "2020-08-03 20:22:21"
},
{
"RoleName": "test_role",
"Token": "xxxx.eyJzdWIiOiJ0ZXN0X3JvbGUifQ.xeU_xkiB5wSJ8u6sUJWW",
"Remark": "Remark1",
"CreateTime": "2020-08-03 17:22:09",
"UpdateTime": "2020-08-04 15:59:29"
}
],
"RequestId": "gggxxxx"
}
}
```


# 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
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- 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 |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# DeleteEnvironmentRoles

Last updated：2023-08-09 14:43:30

## 1. API Description

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

This API is used to delete an environment role.

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: DeleteEnvironmentRoles. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| RoleNames.N | Yes | Array of String | Array of role names. |
| ClusterId | No | String | Cluster ID (required) |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting environment role

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteEnvironmentRoles
&EnvironmentId=default
&RoleNames.0=test_role
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "gggxxxx"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.DeleteEnvironmentRoles | Failed to delete the environment role. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.EnvironmentRole | The environment role does not exist. |

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# CreateRole

Last updated：2023-08-09 14:43:30

## 1. API Description

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

This API is used to create a role.

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: CreateRole. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| RoleName | Yes | String | Role name, which can contain up to 32 letters, digits, hyphens, and underscores. |
| Remark | No | String | Remarks (up to 128 characters). |
| ClusterId | No | String | Cluster ID (required) |

## 3. Output Parameters

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

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| Parameter Name | Type | Description |
| --- | --- | --- |
| RoleName | String | Role name |
| Token | String | Role token |
| Remark | String | Remarks<br>Note: this field may return null, indicating that no valid values can be obtained. |
| EnvironmentRoleSets | Array of EnvironmentRoleSet | Namespaces that are bound in batches<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a role

This example shows you how to create a role.

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=CreateRole
&RoleName=test_role_123
&Remark=Creating a role
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RoleName": "abc",
"Token": "abc",
"Remark": "abc",
"EnvironmentRoleSets": [
{
"EnvironmentId": "abc",
"Permissions": [
"abc"
]
}
],
```

```
"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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.CreateRole | Failed to create the role. |
| FailedOperation.CreateSecretKey | Failed to create the key. |
| FailedOperation.SaveSecretKey | Failed to save the key. |
| InternalError.SystemError | System error. |
| | |

| | |
|---|---|
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceInUse.Role | The role already exists. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# CreateEnvironmentRole

Last updated：2023-08-09 14:43:30

## 1. API Description

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

This API is used to create an environment role.

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: CreateEnvironmentRole. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| RoleName | Yes | String | Role name. |
| Permissions.N | Yes | Array of String | Permissions, which is a non-empty string array of `produce` and `consume` at the most. |
| ClusterId | No | String | Cluster ID (required) |

# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating environment role

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=CreateEnvironmentRole
&RoleName=test_role_1
&EnvironmentId=default
&Permissions.0=produce
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "gggxxxx"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.CreateEnvironmentRole | Failed to create the environment role. |
| FailedOperation.UpdateEnvironmentRole | Failed to update the environment role. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceInUse | The resource is in use. |
| ResourceInUse.EnvironmentRole | The environment role already exists. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceNotFound.Role | The role does not exist. |

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# DeleteRoles

Last updated：2023-08-09 14:43:30

## 1. API Description

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

This API is used to delete one or multiple 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: DeleteRoles. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| RoleNames.N | Yes | Array of String | Array of role names. |
| ClusterId | No | String | Cluster ID (required) |

## 3. Output Parameters

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

| Name | | |
|---|---|---|
| RoleNames | Array of String | Name array of roles successfully deleted. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting role

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteRoles
&RoleNames.0=test_role_1
&RoleNames.1=test_role_2
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RoleNames": [
"test_role_1",
"test_role_2"
],
"RequestId": "gggxxxx"
}
}
```

# 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

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.DeleteRoles | Failed to delete the role. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceInUse.EnvironmentRole | The environment role already exists. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Role | The role does not exist. |

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# TDMQ for RabbitMQ APIs
# CreateRabbitMQUser

Last updated：2023-08-09 14:43:21

## 1. API Description

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

This API is used to create a TDMQ for RabbitMQ 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: CreateRabbitMQUser. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| User | Yes | String | Username, which is used for login. |
| Password | Yes | String | Password, which is used for login. |
| Description | No | String | Description |
| Tags.N | No | Array | User tag, which defines a user's permission scope for accessing |

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| | | | |
|---|---|---|---|
| | | of String | RabbitMQ Managementu200d.<br>Valid values: `management` (Common console user), monitoring` (Console admin user), other values: Non-console user. |
| MaxConnections | No | Integer | The maximum number of connections for the user. If this parameter is left empty, there's no limit for the number. |
| MaxChannels | No | Integer | The maximum number of channels for the user. If this parameter is left empty, there's no limit for the number. |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| User | String | Username, which is used for login. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a TDMQ for RabbitMQ user

u200dThis example shows you how to create a TDMQ for RabbitMQ user.

#### Input Example

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

{
"InstanceId": "amqp-44w9928j",
"User": "test_user",
"Password": "abc123"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs",
"User": "test_user"
}
}
```

# 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 NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |

# CreateRabbitMQVirtualHost

Last updated：2023-08-09 14:43:20

## 1. API Description

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

This API is used to create a TDMQ for RabbitMQ vhost.

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: CreateRabbitMQVirtualHost. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| VirtualHost | Yes | String | Vhost name |
| Description | No | String | Description |
| TraceFlag | No | Boolean | Message trace flag. Valid values: `true` (Enabled), `false` (Disabled, which is the default value). |

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# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| VirtualHost | String | Vhost name |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a TDMQ for RabbitMQ vhost

u200dThis example shows you how to create a TDMQ for RabbitMQ vhost.

#### Input Example

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

{
"InstanceId": "amqp-44w9928j",
"VirtualHost": "testVhost",
"Description": "hello"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs",
"VirtualHost": "testVhost"
}
}
```

# 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 NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |

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# DeleteRabbitMQUser

Last updated：2023-08-09 14:43:20

## 1. API Description

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

This API is used to delete a TDMQ for RabbitMQ 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: DeleteRabbitMQUser. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| User | Yes | String | Username, which is used for login. |

## 3. Output Parameters

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

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting a TDMQ for RabbitMQ user

u200dThis example shows you how to delete a TDMQ for RabbitMQ user.

#### Input Example

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

{
"InstanceId": "amqp-xxx",
"User": "test_user"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# DeleteRabbitMQVirtualHost

Last updated：2023-08-09 14:43:20

## 1. API Description

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

This API is used to delete a TDMQ for RabbitMQ vhost.

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: DeleteRabbitMQVirtualHost. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| VirtualHost | Yes | String | Vhost name |

## 3. Output Parameters

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

| | | |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting a TDMQ for RabbitMQ vhost

u200dThis example shows you how to delete a TDMQ for RabbitMQ vhost.

#### Input Example

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

{
"InstanceId": "amqp-44w9928j",
"VirtualHost": "testVhost"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs"
}
}
```

# 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

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# DescribeRabbitMQUser

Last updated：2023-08-09 14:43:20

## 1. API Description

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

This API is used to query the list of TDMQ for RabbitMQ 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: DescribeRabbitMQUser. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| SearchUser | No | String | Username search by prefix or suffix |
| Offset | No | Integer | Pagination offset |
| Limit | No | Integer | Pagination limit |
| User | No | String | Username, which is queried by exact match. |
| Tags.N | No | Array of | User tag, which is used to filter users. |

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| | | | |
|---|---|---|---|
| | | String | |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | Returned number of users |
| RabbitMQUserList | Array of RabbitMQUser | The list of the created TDMQ for RabbitMQ users |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the list of TDMQ for RabbitMQ users

This example shows you how to query the list of TDMQ for RabbitMQ users.

#### Input Example

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

{
"InstanceId": "amqp-44w9928j"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs",
"RabbitMQUserList": [
{
"InstanceId": "amqp-xxx",
"User": "testVhost",
"Password": "123",
```

```
"Description": "hello",
"Tags": [
"shop"
]
}
],
"TotalCount": 1
}
}
```

# 5. Developer Resources

### SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |

| | |
|---|---|
| ResourceNotFound | The resource does not exist. |

# DescribeRabbitMQVirtualHost

Last updated：2023-08-09 14:43:19

## 1. API Description

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

This API is used to query the list of TDMQ for RabbitMQ vhosts.

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: DescribeRabbitMQVirtualHost. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| VirtualHost | No | String | Vhost name. If this parameter is not specified, all will be queried by default. |
| Offset | No | Integer | Pagination offset |
| Limit | No | Integer | Pagination limit |
| Filters | No | Filter | Fuzzy query by vhost name |
| | | | |

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| | | | |
|---|---|---|---|
| SortElement | No | String | |
| SortOrder | No | String | |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | Returned number of vhosts |
| VirtualHostList | Array of RabbitMQVirtualHostInfo | List of vhost details |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the list of TDMQ for RabbitMQ vhosts

This example shows you how to query the list of TDMQ for RabbitMQ vhosts.

#### Input Example

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

{
"InstanceId": "amqp-44w9928j"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs",
"VirtualHostList": [
{
```

```
"InstanceId": "amqp-xxx",
"VirtualHost": "testVhost",
"Description": "hello",
"Tags": [
"shop"
]
}
],
"TotalCount": 1
}
}
```


# 5. Developer Resources

### SDK

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

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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 NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |

| | |
|---|---|
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# ModifyRabbitMQUser

Last updated：2023-08-09 14:43:19

## 1. API Description

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

This API is used to modify a TDMQ for RabbitMQ 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: ModifyRabbitMQUser. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| User | Yes | String | Username, which is used for login. |
| Password | Yes | String | Password, which is used for login. |
| Description | No | String | Description. If this parameter is not passed in, it won't be modified. |
| Tags.N | No | Array of String | User tag, which defines a user's permission scope for accessing RabbitMQ Management. If this parameter is not passed in, it won't be modified. |

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| | | | |
|---|---|---|---|
| MaxConnections | No | Integer | The maximum number of connections for the user. If this parameter is not passed in, it won't be modified. |
| MaxChannels | No | Integer | The maximum number of channels for the user. If this parameter is not passed in, it won't be modified. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying a TDMQ for RabbitMQ user

This example shows you how to modify a TDMQ for RabbitMQ user.

#### Input Example

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

{
"InstanceId": "amqp-44w9928j",
"User": "test_user",
"Password": "123"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# ModifyRabbitMQVirtualHost

Last updated：2023-08-09 14:43:19

## 1. API Description

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

This API is used to modify a TDMQ for RabbitMQ vhost.

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: ModifyRabbitMQVirtualHost. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Cluster instance ID |
| VirtualHost | Yes | String | Vhost name |
| Description | No | String | Description |
| TraceFlag | No | Boolean | Message trace flag. Valid values: `true` (Enabled), `false` (Disabled). |

# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Modifying a TDMQ for RabbitMQ vhost

This example shows you how to modify a TDMQ for RabbitMQ vhost.

#### Input Example

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

{
"InstanceId": "amqp-44w9928j",
"VirtualHost": "testVhost",
"Description": "hello"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "dsfsdfs"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# CreateRabbitMQVipInstance

Last updated：2023-04-18 14:53:03

## 1. API Description

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

This API is used to create a TDMQ for RabbitMQ exclusive instance.

A maximum of 1 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: CreateRabbitMQVipInstance. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ZoneIds.N | Yes | Array of Integer | AZ |
| VpcId | Yes | String | VPC ID |
| SubnetId | Yes | String | VPC subnet ID |
| ClusterName | Yes | String | Cluster name |
| NodeSpec | No | String | Node specification ( `rabbit-vip-basic-` |

| | | | |
|---|---|---|---|
| | | | `1` : Basic; `rabbit-vip-basic-2` : Standard; `rabbit-vip-basic-3` : Advanced I; `rabbit-vip-basic-4` : Advanced II). If this parameter is left empty, the default value is `rabbit-vip-basic-1` . |
| NodeNum | No | Integer | Number of nodes, which is at least three for multi-AZ deployment. If this parameter is left empty, the value will be set to 1 for single-AZ deployment and 3 for multi-AZ deployment by default. |
| StorageSize | No | Integer | Storage capacity of a single node, which is 200 GB by default. |
| EnableCreateDefaultHaMirrorQueue | No | Boolean | Whether to enable mirrored queue. Default value: `false` . |
| AutoRenewFlag | No | Boolean | Whether to enable auto-renewal. Default value: `true` . |
| TimeSpan | No | Integer | Validity period, which is one month by default. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TranId | String | Order ID<br>Note: This field may return null, indicating that no valid values can be obtained. |
| InstanceId | String | Instance ID<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Creating a TDMQ for RabbitMQ exclusive instance

This example shows you how to create a TDMQ for RabbitMQ exclusive instance.

### Input Example

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

{
"ZoneIds": [
190001
],
"NodeSpec": "rabbit-vip-basic-2",
"NodeNum": 1,
"StorageSize": 100,
"VpcId": "vpc-xxx",
"SubnetId": "subnet-xxx",
"ClusterName": "ApiCreate",
"EnableCreateDefaultHaMirrorQueue": false
}
```

### Output Example

```
{
"Response": {
"RequestId": "sadasfdsfs",
"TranId": "20230110002025620411234",
"InstanceId": "amqp-aegnagjg"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS

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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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |

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# DeleteRabbitMQVipInstance

Last updated：2023-08-09 14:43:20

## 1. API Description

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

This API is used to delete a TDMQ for RabbitMQ exclusive instance.

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

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

## 2. Input Parameters

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

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| Action | Yes | String | Common Params. The value used for this API: DeleteRabbitMQVipInstance. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | Instance ID |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TranId | String | Order ID |

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| | | |
|---|---|---|
| | | Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| InstanceId | String | Instance ID<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 u200dDeleting a TDMQ for RabbitMQ instance

u200dThis example shows you how to delete a TDMQ for RabbitMQ instance.

#### Input Example

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

{
"InstanceId": "amqp-xxxxxxxx"
}
```

#### Output Example

```
{
"Response": {
"TranId": "abc",
"InstanceId": "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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |

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# DescribeRabbitMQVipInstances

Last updated：2023-08-09 14:43:19

## 1. API Description

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

This API is used to query the list of the purchased TDMQ for RabbitMQ exclusive instances.

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

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

## 2. Input Parameters

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

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| Action | Yes | String | Common Params. The value used for this API: DescribeRabbitMQVipInstances. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Filters.N | No | Array of Filter | Query condition filter |
| Limit | No | Integer | The maximum number of queried items, which defaults to 20. |
| Offset | No | Integer | Start offset for query |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TotalCount | Integer | The total number of unpaginated items |
| Instances | Array of RabbitMQVipInstance | Instance information list |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Getting the instance list

#### Input Example

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

{
"Limit": 1,
"Filters": [
{
"Values": [
"xx"
],
"Name": "xx"
}
],
"Offset": 1
}
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "xx",
"Instances": [
{
```

```
"Status": 1,
"PayMode": 1,
"Remark": "xx",
"AutoRenewFlag": 1,
"InstanceId": "xx",
"NodeCount": 1,
"ExpireTime": 1,
"InstanceVersion": "xx",
"MaxStorage": 1,
"MaxBandWidth": 1,
"SpecName": "xx",
"ConfigDisplay": "xx",
"InstanceName": "xx",
"MaxTps": 1
}
]
}
}
```


# 5. Developer Resources

### SDK

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

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

# RocketMQ APIs DescribeRocketMQVipInstanceDetail

Last updated：2023-08-09 14:43:22

## 1. API Description

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

This API is used to get the information of a specific TDMQ for RocketMQ exclusive cluster.

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: DescribeRocketMQVipInstanceDetail. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |

## 3. Output Parameters

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

| | | |
|---|---|---|
| ClusterInfo | RocketMQClusterInfo | Cluster information |
| InstanceConfig | RocketMQInstanceConfig | Cluster configuration |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

## Example1 huo

### Input Example

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

{
"ClusterId": "rocketmq-rd3545bkkj49"
}
```

### Output Example

```
{
"Response": {
"RequestId": "c6d158b6-89b2-40d1-b1f6-5973f0f00cd5",
"ClusterInfo": {
"ClusterId": "rocketmq-rd3545bkkj49",
"ClusterName": "test-example",
"Region": "ap-beijing",
"CreateTime": 1620321019000,
"SupportNamespaceEndpoint": true,
"Remark": "modified",
"PublicEndPoint": "pulsar://xxxxx.com:6650",
"Vpcs": [
{
"SubnetId": "xx",
"VpcId": "xx"
}
],
"IsVip": true,
"RocketMQFlag": true,
```

```
"VpcEndPoint": "pulsar://xxxxx.com:6650"
},
"InstanceConfig": {
"MaxTpsPerNamespace": 8000,
"UsedNamespaceNum": 1,
"MaxTopicNum": 1000,
"UsedTopicNum": 2,
"MaxGroupNum": 10000,
"UsedGroupNum": 1,
"MaxNamespaceNum": 10,
"ConfigDisplay": "xx",
"NodeCount": 2,
"NodeDistribution": [],
"TopicDistribution": []
}
}
}
```

# 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 NodeJS
- 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 | Operation failed. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Instance | The instance doesn't exist. |
| ResourceUnavailable | The resource is unavailable. |

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# DescribeRocketMQMsg

Last updated：2023-08-09 14:43:22

## 1. API Description

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

This API is used to query the TDMQ for RocketMQ message 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: DescribeRocketMQMsg. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| EnvironmentId | Yes | String | Namespace ID |
| TopicName | Yes | String | Topic name. Pass in the group ID when querying a dead letter queue. |
| MsgId | Yes | String | Message ID |
| PulsarMsgId | Yes | String | ID of a TDMQ for Pulsar message |
| | | | |

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| | | | |
|---|---|---|---|
| QueryDlqMsg | No | Boolean | The value of this parameter is `true` when you query a dead letter queue. It only applies to TDMQ for RocketMQ. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| Body | String | Message body |
| Properties | String | Details parameter |
| ProduceTime | String | Production time |
| MsgId | String | Message ID |
| ProducerAddr | String | Producer address |
| MessageTracks | Array of RocketMQMessageTrack | Consumption details of a consumer group<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| ShowTopicName | String | Topic name displayed on the details page<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Querying the details of a TDMQ for RocketMQ message

This example shows you how to query the details of a TDMQ for RocketMQ message.

#### Input Example

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

{
```

```
"EnvironmentId": "xx",
"ClusterId": "xx",
"TopicName": "xx",
"PulsarMsgId": "xx",
"MsgId": "xx",
"QueryDlqMsg": false
}
```

**Output Example**

```
{
"Response": {
"Body": "xx",
"MsgId": "xx",
"ProduceTime": "xx",
"RequestId": "xx",
"Properties": "xx",
"ProducerAddr": "xx",
"ShowTopicName": "xx",
"MessageTracks": []
}
}
```

# 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

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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 | Operation failed. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# ModifyRocketMQTopic

Last updated：2023-08-09 14:43:21

## 1. API Description

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

This API is used to update a RocketMQ topic.

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: ModifyRocketMQTopic. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace name |
| Topic | Yes | String | Topic name |
| Remark | Yes | String | Remarks (up to 128 characters) |
| PartitionNum | No | Integer | Number of partitions, which is invalid for globally sequential messages and cannot be less than the current number of partitions. |

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# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Modifying topic

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=ModifyRocketMQTopic
&ClusterId=rocketmq-2p9vx3ax9jxg
&NamespaceId=example
&Topic=example-topic
&Remark=modified
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "5d41e0f7-5668-46f9-a549-9a7540a9966c"
}
}
```

# 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 Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| InvalidParameter.Partition | Incorrect partition count. |
| ResourceInUse | The resource is in use. |
| ResourceNotFound | The resource does not exist. |

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# ModifyRocketMQNamespace

Last updated：2023-08-09 14:43:21

## 1. API Description

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

This API is used to update a RocketMQ namespace.

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: ModifyRocketMQNamespace. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace name, which can contain 3–64 letters, digits, hyphens, and underscores |
| Ttl | No | Integer | This parameter is disused. |
| RetentionTime | No | Integer | This parameter is disused. |
| Remark | No | String | Remarks (up to 128 characters) |
| | | | |

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| | | | |
|---|---|---|---|
| PublicAccessEnabled | No | Boolean | Whether to enable the public network access |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Modifying the namespace information

This example shows you how to modify the namespace information.

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=ModifyRocketMQNamespace
&ClusterId=rocketmq-2p9vx3ax9jxg
&NamespaceId=example
&Ttl=65000
&RetentionTime=650000
&Remark=example
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "7c995fd0-9a78-4985-8874-244a20a1d47b"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| FailedOperation.SetTTL | Failed to configure the message TTL. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| LimitExceeded | The quota limit is exceeded. |
| ResourceInUse | The resource is in use. |
| ResourceInsufficient | Insufficient resource. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# ModifyRocketMQGroup

Last updated：2023-08-09 14:43:21

## 1. API Description

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

This API is used to update a RocketMQ consumer 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: ModifyRocketMQGroup. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace |
| GroupId | Yes | String | Consumer group name |
| Remark | No | String | Remarks (up to 128 characters) |
| ReadEnable | No | Boolean | Whether to enable consumption |
| BroadcastEnable | No | Boolean | Whether to enable broadcast consumption |
| RetryMaxTimes | No | Integer | The maximum number of retries |

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## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying a subscription group

#### Input Example

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

{
"Remark": "modified",
"BroadcastEnable": "false",
"ClusterId": "rocketmq-2p9vx3ax9jxg",
"GroupId": "group-example",
"RetryMaxTimes": "16",
"ReadEnable": "true",
"NamespaceId": "example"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "1f9e837c-aab9-4f93-a373-48e165758529"
}
}
```

# 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
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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceInUse | The resource is in use. |
| ResourceNotFound | The resource does not exist. |

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# ModifyRocketMQCluster

Last updated：2023-08-09 14:43:22

## 1. API Description

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

This API is used to update a RocketMQ cluster.

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: ModifyRocketMQCluster. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | RocketMQ cluster ID |
| ClusterName | No | String | 3–64 letters, digits, hyphens, and underscores |
| Remark | No | String | Remarks (up to 128 characters) |
| PublicAccessEnabled | No | Boolean | Whether to enable the HTTP access over the public network |

## 3. Output Parameters

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| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Modifying cluster information

This example shows you how to modify the cluster information.

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=ModifyRocketMQCluster
&ClusterId=rocketmq-rd3545bkkj49
&ClusterName=test-example
&Remark=modified
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "ccfb8e00-54ac-40ad-9d24-036279fe3ad9"
}
}
```

# 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| LimitExceeded | The quota limit is exceeded. |
| ResourceInUse | The resource is in use. |
| ResourceInsufficient | Insufficient resource. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# DescribeRocketMQTopics

Last updated：2023-08-09 14:43:22

## 1. API Description

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

This API is used to get the list of RocketMQ topics.

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: DescribeRocketMQTopics. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Offset | Yes | Integer | Offset for query. |
| Limit | Yes | Integer | Query limit. |
| ClusterId | Yes | String | Cluster ID. |
| NamespaceId | Yes | String | Namespace. |
| FilterType.N | No | Array of String | Filter by topic type. Valid values: `Normal` , `GlobalOrder` , `PartitionedOrder` , `Transaction` . |

| | | | |
|---|---|---|---|
| FilterName | No | String | Search by topic name. Fuzzy query is supported. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | The total number of query records. |
| Topics | Array of RocketMQTopic | List of topic information |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Getting the topic list

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=DescribeRocketMQTopics
&Offset=0
&Limit=10
&ClusterId=rocketmq-2p9vx3ax9jxg
&NamespaceId=example
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "c017c4d1-13cb-4f14-ab89-2c6530892f90",
"TotalCount": 1,
"Topics": [
{
"Name": "example-topic",
"Type": "Normal",
"GroupNum": 0,
"Remark": "modified",
```

```
"PartitionNum": 3,
"CreateTime": 1621308465000,
"UpdateTime": 1621308657000
}
]
}
}
```

# 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 | Operation failed. |
| InternalError | Internal error. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |

| | |
|---|---|
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# DescribeRocketMQNamespaces

Last updated：2023-08-09 14:43:22

## 1. API Description

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

This API is used to get the list of RocketMQ namespaces.

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: DescribeRocketMQNamespaces. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID. |
| Offset | Yes | Integer | Offset. |
| Limit | Yes | Integer | The max number of returned results. |
| NameKeyword | No | String | Search by name. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| Namespaces | Array of RocketMQNamespace | List of namespaces |
| TotalCount | Integer | The total number of returned results. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Getting the list of the user's namespaces

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeRocketMQNamespaces
&ClusterId=rocketmq-rd3545bkkj49
&Offset=0
&Limit=10
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "xx",
"Namespaces": [
{
"Remark": "xx",
"RetentionTime": 1,
"VpcEndpoint": "xx",
"Ttl": 1,
"NamespaceId": "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 | Operation failed. |
| InternalError | Internal error. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# DescribeRocketMQGroups

Last updated：2023-08-09 14:43:23

## 1. API Description

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

This API is used to get the list of RocketMQ consumer 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: DescribeRocketMQGroups. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID. |
| NamespaceId | Yes | String | Namespace. |
| Offset | Yes | Integer | Offset. |
| Limit | Yes | Integer | The max number of returned results. |
| FilterTopic | No | String | Topic name, which can be used to query all subscription groups under the topic |
| | | | |

| | | | |
|---|---|---|---|
| FilterGroup | No | String | Consumer group query by consumer group name. Fuzzy query is supported |
| SortedBy | No | String | Sort by specified field. Valid values: `tps` , `accumulative` . |
| SortOrder | No | String | Sort in ascending or descending order. Valid values: `asc` , `desc` . |
| FilterOneGroup | No | String | Subscription group name. After it is specified, the information of only this subscription group will be returned. |
| Types.N | No | Array of String | Group type |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | The total number of subscription groups. |
| Groups | Array of RocketMQGroup | List of subscription groups |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Querying the list of subscription groups

test

#### Input Example

```
{
"ClusterId": "xx",
"NamespaceId": "xx",
"Offset": 1,
"Limit": 1,
"FilterTopic": "xx",
"FilterGroup": "xx",
```

```
"SortedBy": "xx",
"SortOrder": "xx",
"FilterOneGroup": "xx",
"Types": [
"xx"
]
}
```

**Output Example**

```
{
"Response": {
"RequestId": "1c127300-fcdd-4087-b1d2-fd75a1cefbe4",
"TotalCount": 1,
"Groups": [
{
"Name": "group-example",
"ConsumerNum": 0,
"TotalAccumulative": 0,
"ConsumptionMode": -1,
"BroadcastEnabled": false,
"ReadEnabled": true,
"RetryPartitionNum": 0,
"CreateTime": 1621307489000,
"UpdateTime": 1621307706000,
"ClientProtocol": "TCP",
"Remark": "modified",
"ConsumerType": "",
"TPS": 0,
"GroupType": "TCP"
}
]
}
}
```

# 5. Developer Resources

## SDK

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- Tencent Cloud SDK 3.0 for Java

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- Tencent Cloud SDK 3.0 for 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceInUse | The resource is in use. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceUnavailable | The resource is unavailable. |

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# DescribeRocketMQClusters

Last updated：2023-08-09 14:43:23

## 1. API Description

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

This API is used to get the list of RocketMQ 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: DescribeRocketMQClusters. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Offset | Yes | Integer | Offset. |
| Limit | Yes | Integer | The max number of returned results. |
| IdKeyword | No | String | Search by cluster ID. |
| NameKeyword | No | String | Search by cluster name. |
| ClusterIdList.N | No | Array of String | Filter by cluster ID. |
| | | | |

| | | | |
|---|---|---|---|
| IsTagFilter | No | Boolean | For filtering by tag, this parameter must be set to `true` . |
| Filters.N | No | Array of Filter | Filter. Currently, you can filter only by tag. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| ClusterList | Array of RocketMQClusterDetail | Cluster information.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| TotalCount | Integer | The total number of returned results. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Getting the list of created clusters

#### Input Example

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

{
"Limit": "10",
"Offset": "0"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "1faeceb2-eaa9-407e-bd9a-d3eff76ca882",
```

```
"TotalCount": 1,
"ClusterList": [
{
"Info": {
"ClusterId": "rocketmq-xxxx1",
"ClusterName": "test",
"Region": "ap-beijing",
"CreateTime": 1620321019000,
"Remark": "String",
"PublicEndPoint": "pulsar://rocketmq-xxxx1.xxxx.com:5678",
"VpcEndPoint": "pulsar://rocketmq-xxxx1.xxxx.com:5678",
"Vpcs": [
{
"SubnetId": "xx",
"VpcId": "xx"
}
],
"SupportNamespaceEndpoint": true,
"RocketMQFlag": true,
"IsVip": true
},
"Config": {
"MaxTpsPerNamespace": 8000,
"UsedNamespaceNum": 1,
"MaxTopicNum": 1000,
"UsedTopicNum": 2,
"MaxGroupNum": 10000,
"UsedGroupNum": 1,
"MaxRetentionTime": 1296000000,
"MaxLatencyTime": 3456000000,
"MaxNamespaceNum": 10
}
}
]
}
}
```


# 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 NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# DescribeRocketMQCluster

Last updated：2023-08-09 14:43:23

## 1. API Description

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

This API is used to get the information of a specific RocketMQ cluster.

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: DescribeRocketMQCluster. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| ClusterInfo | RocketMQClusterInfo | Cluster information |

| | | |
|---|---|---|
| ClusterConfig | RocketMQClusterConfig | Cluster configuration |
| ClusterStats | RocketMQClusterRecentStats | Recent cluster usage<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

## Example1 huo

### Input Example

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

{
"ClusterId": "rocketmq-rd3545bkkj49"
}
```

### Output Example

```
{
"Response": {
"RequestId": "c6d158b6-89b2-40d1-b1f6-5973f0f00cd5",
"ClusterInfo": {
"ClusterId": "rocketmq-rd3545bkkj49",
"ClusterName": "test-example",
"Region": "ap-beijing",
"CreateTime": 1620321019000,
"Remark": "modified",
"PublicEndPoint": "pulsar://xxxxx.com:6650",
"VpcEndPoint": "pulsar://xxxxx.com:6650",
"Vpcs": [
{
"SubnetId": "xx",
"VpcId": "xx"
}
],
```

```
"SupportNamespaceEndpoint": true,
"RocketMQFlag": true,
"IsVip": true
},
"ClusterConfig": {
"MaxTpsPerNamespace": 8000,
"UsedNamespaceNum": 1,
"MaxTopicNum": 1000,
"UsedTopicNum": 2,
"MaxGroupNum": 10000,
"UsedGroupNum": 1,
"MaxRetentionTime": 1296000000,
"MaxLatencyTime": 3456000000,
"MaxNamespaceNum": 10
},
"ClusterStats": {
"TopicNum": 2,
"ProducedMsgNum": 0,
"ConsumedMsgNum": 0,
"AccumulativeMsgNum": 0
}
}
}
```


# 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

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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 | Operation failed. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# DeleteRocketMQTopic

Last updated：2023-08-09 14:43:23

## 1. API Description

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

This API is used to delete a RocketMQ topic.

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: DeleteRocketMQTopic. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace name |
| Topic | Yes | String | Topic name |

## 3. Output Parameters

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

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting topic

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=DeleteRocketMQTopic
&ClusterId=rocketmq-2p9vx3ax9jxg
&NamespaceId=example
&Topic=example
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "5d41e0f7-5668-46f9-a549-9a7540a9966c"
}
}
```

# 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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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET

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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 | Operation failed. |
| FailedOperation.DeleteTopics | Failed to delete the topic. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |

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# DeleteRocketMQGroup

Last updated：2023-08-09 14:43:24

## 1. API Description

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

This API is used to delete a RocketMQ consumer 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: DeleteRocketMQGroup. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace name |
| GroupId | Yes | String | Consumer group name |

## 3. Output Parameters

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

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting subscription group

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=DeleteRocketMQGroup
&ClusterId=rocketmq-2p9vx3ax9jxg
&NamespaceId=example
&GroupId=group-example
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "7fb7d925-a5c7-4b8c-add5-8477917a6260"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET

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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 | Operation failed. |
| InternalError | Internal error. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceInUse | The resource is in use. |
| ResourceNotFound | The resource does not exist. |

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# DeleteRocketMQCluster

Last updated：2023-08-09 14:43:24

## 1. API Description

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

This API is used to delete a RocketMQ cluster.

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: DeleteRocketMQCluster. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | ID of the cluster to be deleted. |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for |

| | | |
|---|---|---|
| | | locating a problem. |

# 4. Example

### Example1 Deleting a cluster

#### Input Example

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

{
"ClusterId": "rocketmq-xjo5nq977ow2"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "0d52695d-f4bd-4035-8f31-3c78fa720844"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| FailedOperation.DeleteCluster | Failed to delete the cluster. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |

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# CreateRocketMQTopic

Last updated：2023-04-18 14:53:06

## 1. API Description

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

This API is used to create a RocketMQ topic.

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: CreateRocketMQTopic. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Topic | Yes | String | Topic name, which can contain 3–64 letters, digits, hyphens, and underscores |
| Namespaces.N | Yes | Array of String | Topic namespace. Currently, you can create topics only in one single namespace. |
| Type | Yes | String | Topic type. Valid values: `Normal` , `PartitionedOrder` , `Transaction` , `DelayScheduled` . |
| ClusterId | Yes | String | Cluster ID |

| | | | |
|---|---|---|---|
| Remark | No | String | Topic remarks (up to 128 characters) |
| PartitionNum | No | Integer | Number of partitions, which doesn't take effect for globally sequential messages |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a topic

This example shows you how to create a topic.

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=CreateRocketMQTopic
&Topic=example-topic
&Type=Normal
&Remark=example
&ClusterId=rocketmq-2p9vx3ax9jxg
&Namespaces.0=example
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "f844f173-93ed-4d89-979e-86e4e1d63b8a"
}
}
```

# 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 NodeJS
- 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 | Operation failed. |
| FailedOperation.CreateTopic | Failed to create the topic. |
| InternalError | Internal error. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| InvalidParameter.Partition | Incorrect partition count. |
| LimitExceeded | The quota limit is exceeded. |
| ResourceInUse | The resource is in use. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Namespace | The namespace does not exist. |

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| | |
|---|---|
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

# CreateRocketMQNamespace

Last updated：2023-08-09 14:43:24

## 1. API Description

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

This API is used to create a RocketMQ namespace.

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: CreateRocketMQNamespace. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID |
| NamespaceId | Yes | String | Namespace name, which can contain 3–64 letters, digits, hyphens, and underscores |
| Ttl | No | Integer | This parameter is disused. |
| RetentionTime | No | Integer | This parameter is disused. |
| Remark | No | String | Remarks (up to 128 characters) |

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# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a namespace

This example shows you how to create a namespace.

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=CreateRocketMQNamespace
&ClusterId=rocketmq-2p9vx3ax9jxg
&NamespaceId=example
&Ttl=60000
&RetentionTime=600000
&Remark=example
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "bf71e2ae-8b56-4231-87cf-0cbb6f421caa"
}
}
```

# 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 NodeJS
- 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 | Operation failed. |
| FailedOperation.SetTTL | Failed to configure the message TTL. |
| InternalError | Internal error. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| LimitExceeded | The quota limit is exceeded. |
| ResourceInUse | The resource is in use. |
| ResourceInsufficient | Insufficient resource. |
| ResourceNotFound | The resource does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# CreateRocketMQGroup

Last updated：2023-08-09 14:43:24

## 1. API Description

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

This API is used to create a RocketMQ consumer 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: CreateRocketMQGroup. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| GroupId | Yes | String | Group name (8–64 characters) |
| Namespaces.N | Yes | Array of String | Namespace. Currently, only one namespace is supported |
| ReadEnable | Yes | Boolean | Whether to enable consumption |
| BroadcastEnable | Yes | Boolean | Whether to enable broadcast consumption |
| ClusterId | Yes | String | Cluster ID |
| Remark | No | String | Remarks (up to 128 characters) |

| | | | |
|---|---|---|---|
| GroupType | No | String | Group type ( `TCP` , `HTTP` ) |
| RetryMaxTimes | No | Integer | The maximum number of retries for a group |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a subscription group

#### Input Example

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

{
"Remark": "example",
"BroadcastEnable": "true",
"ClusterId": "rocketmq-2p9vx3ax9jxg",
"RetryMaxTimes": "16",
"Namespaces": [
"example"
],
"ReadEnable": "true",
"GroupType": "TCP",
"GroupId": "group-example"
}
```

#### Output Example

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

```
"RequestId": "0604a303-6d5f-40e6-9dfe-6c4ddd8fe2df"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InternalError.IllegalMessage | Internal error. |
| InvalidParameter | Incorrect parameter. |
| LimitExceeded | The quota limit is exceeded. |
| ResourceInUse | The resource is in use. |
| | |

| | |
|---|---|
| ResourceNotFound.Cluster | The cluster does not exist. |

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# CreateRocketMQCluster

Last updated：2023-08-09 14:43:24

## 1. API Description

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

This API is used to create a RocketMQ cluster.

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: CreateRocketMQCluster. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Name | Yes | String | Cluster name, which can contain 3–64 letters, digits, hyphens, and underscores |
| Remark | No | String | Cluster description (up to 128 characters) |

## 3. Output Parameters

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

| Name | | |
| --- | --- | --- |
| ClusterId | String | Cluster ID |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a cluster

#### Input Example

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

{
"Remark": "remark",
"Name": "example"
}
```

#### Output Example

```
{
"Response": {
"RequestId": "8841a73b-b002-4e92-a76b-123b12cfa9c1",
"ClusterId": "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.

- 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 NodeJS
- 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 | Operation failed. |
| FailedOperation.CreateCluster | Failed to create the cluster. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| LimitExceeded | The quota limit is exceeded. |
| LimitExceeded.Clusters | The number of clusters under the instance exceeds the limit. |
| ResourceInUse | The resource is in use. |
| ResourceInsufficient | Insufficient resource. |
| ResourceNotFound | The resource does not exist. |
| ResourceUnavailable | The resource is unavailable. |
| ResourceUnavailable.CreateFailed | Assignment exception. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# TDMQ for RocketMQ APIs ModifyRocketMQInstanceSpec

Last updated：2023-08-09 14:43:18

## 1. API Description

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

This API is used to modify the configurations of a TDMQ for RocketMQ exclusive instance, including the upgrade of the instance specification, node count, and storage, and the downgrade of the instance specification. After you call this API to place the order and make payments, the configuration modification will be in progress. You can query whether the modification has been completed through the `DescribeRocketMQVipInstances` API`.

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: ModifyRocketMQInstanceSpec. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| InstanceId | Yes | String | ID of the exclusive instance |
| Specification | No | String | Instance specification.<br>Valid values: `rocket-vip-basic-1` (Basic), `rocket-vip-basic-2` (Standard), |

| | | | |
|---|---|---|---|
| | | | `rocket-vip-basic-3` (Advanced I),<br>`rocket-vip-basic-4` (Advanced II). |
| NodeCount | No | Integer | Node count |
| StorageSize | No | Integer | Storage space in GB |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| OrderId | String | Order ID<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Modifying the specification of a TDMQ for RocketMQ exclusive instance

This example shows you how to modify the specification of a TDMQ for RocketMQ exclusive instance.

#### Input Example

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

{
"InstanceId": "abc",
"Specification": "abc",
"NodeCount": 1,
"StorageSize": 1
}
```

#### Output Example

```
{
"Response": {
"OrderId": "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.

- 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 NodeJS
- 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.CallTrade | An exception occurred while calling the transaction service. |
| FailedOperation.InstanceNotReady | This instance is not ready. Please try again later. |
| InvalidParameterValue.AtLeastOne | |
| ResourceNotFound.Instance | The instance doesn't exist. |
| | |

| | |
|---|---|
| UnsupportedOperation.InstanceDowngrade | The instance does not support configuration downgrade. |

# DescribeRocketMQVipInstances

Last updated：2023-08-09 14:43:19

## 1. API Description

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

This API is used to query the list of the purchased TDMQ for RocketMQ exclusive instances.

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

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

## 2. Input Parameters

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

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| Action | Yes | String | Common Params. The value used for this API: DescribeRocketMQVipInstances. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| Filters.N | No | Array of Filter | Query condition filter |
| Limit | No | Integer | The maximum number of queried items, which defaults to 20. |
| Offset | No | Integer | Start offset for query |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| TotalCount | Integer | The total number of unpaginated items |
| Instances | Array of RocketMQVipInstance | Instance information list |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Getting the instance list

#### Input Example

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

{
"Limit": 1,
"Filters": [
{
"Values": [
"xx"
],
"Name": "xx"
}
],
"Offset": 1
}
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "xx",
"Instances": [
{
```

```
"Status": 1,
"PayMode": 1,
"Remark": "xx",
"AutoRenewFlag": 1,
"InstanceId": "xx",
"NodeCount": 1,
"ExpireTime": 1,
"InstanceVersion": "xx",
"MaxStorage": 1,
"MaxBandWidth": 1,
"SpecName": "xx",
"ConfigDisplay": "xx",
"InstanceName": "xx",
"MaxTps": 1
}
]
}
}
```


# 5. Developer Resources

### SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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

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

# Production and Consumption APIs DescribeSubscriptions

Last updated：2023-08-09 14:43:25

## 1. API Description

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

This API is used to query the list of subscribers under the specified environment and topic.

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: DescribeSubscriptions. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| TopicName | Yes | String | Topic name. |
| Offset | No | Integer | Offset, which defaults to 0 if left empty. |
| Limit | No | Integer | The number of results to be returned, which defaults to 10 if left empty. The maximum value is 20. |

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| | | | |
|---|---|---|---|
| SubscriptionName | No | String | Fuzzy match by subscriber name. |
| Filters.N | No | Array of FilterSubscription | Data filter. |
| ClusterId | No | String | Pulsar cluster ID |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| SubscriptionSets | Array of Subscription | Array of subscriber sets. |
| TotalCount | Integer | The total number of returned results. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Getting the consumer subscription list

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeSubscriptions
&EnvironmentId=test1
&TopicName=test
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"TotalCount": 1,
"SubscriptionSets": [
{
"EnvironmentId": "test1",
"TopicName": "test",
"ConnectedSince": "",
```

```
"ConsumerAddr": "",
"ConsumerCount": "6",
"ConsumerName": "",
"MsgBacklog": "1087",
"MsgRateExpired": "0.0",
"MsgRateOut": "0.0",
"SubType": "xx",
"MsgThroughputOut": "0.0",
"SubscriptionName": "test",
"BlockedSubscriptionOnUnackedMsgs": true,
"MaxUnackedMsgNum": 0,
"Remark": "",
"CreateTime": "2020-09-18 14:32:41",
"UpdateTime": "2021-01-13 15:23:35",
"IsOnline": true,
"ConsumerSets": [
{
"ConnectedSince": "2021-01-13T15:19:21.03+08:00",
"ConsumerAddr": "/9.219.234.200:9056",
"ConsumerName": "axjoy",
"ClientVersion": ""
},
{
"ConnectedSince": "2021-01-13T15:22:20.197+08:00",
"ConsumerAddr": "/9.219.234.202:6374",
"ConsumerName": "dkhtb",
"ClientVersion": ""
},
{
"ConnectedSince": "2021-01-13T15:22:50.282+08:00",
"ConsumerAddr": "/9.219.237.139:57322",
"ConsumerName": "ejbij",
"ClientVersion": ""
},
{
"ConnectedSince": "2021-01-13T15:18:50.927+08:00",
"ConsumerAddr": "/9.219.233.137:62564",
"ConsumerName": "hijsf",
"ClientVersion": ""
},
{
"ConnectedSince": "2021-01-13T15:21:50.227+08:00",
"ConsumerAddr": "/9.219.234.202:11554",
"ConsumerName": "nbcra",
"ClientVersion": ""
},
{
```

```
"ConnectedSince": "2021-01-13T15:19:51.032+08:00",
"ConsumerAddr": "/9.219.232.202:19345",
"ConsumerName": "vjmts",
"ClientVersion": ""
}
],
"ConsumersScheduleSets": [
{
"NumberOfEntries": 4642,
"Partitions": 0,
"MsgBacklog": 1087,
"MsgRateOut": "0.0",
"MsgThroughputOut": "0.0",
"MsgRateExpired": "0.0"
}
]
}
],
"RequestId": "39ab02af-30c8-41d4-9ac4-46cb519ceac0"
}
}
```


# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.DescribeSubscription | Failed to query the subscription data. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |

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# DeleteSubscriptions

Last updated：2023-08-09 14:43:26

## 1. API Description

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

This API is used to delete a subscription.

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: DeleteSubscriptions. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| SubscriptionTopicSets.N | Yes | Array of SubscriptionTopic | Subscription set. Up to 20 subscriptions can be deleted at a time. |
| ClusterId | No | String | Pulsar cluster ID. |
| EnvironmentId | No | String | Environment (namespace) name. |
| Force | No | Boolean | Whether to forcibly delete a subscription. Default value: `false` . |

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# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| SubscriptionTopicSets | Array of SubscriptionTopic | Array of successfully deleted subscriptions. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Deleting a subscription

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DeleteSubscriptions
&SubscriptionTopicSets.0.EnvironmentId=default
&SubscriptionTopicSets.0.TopicName=sun_topic
&SubscriptionTopicSets.0.SubscriptionName=test_2_1
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"SubscriptionTopicSets": [
{
"EnvironmentId": "default",
"SubscriptionName": "test_2_1",
"TopicName": "sun_topic"
}
],
"RequestId": "cd14f283-ccb5-4b13-b858-a0a38fa6348b"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.DeleteSubscriptions | Failed to delete the subscription. |
| FailedOperation.GetTopicPartitionsFailed | Failed to get the number of topic partitions. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| OperationDenied.ConsumerRunning | Messages in the subscribed topic are being consumed. |
| ResourceInUse.Subscription | A subscription with the same name already exists. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Subscription | The subscription does not exist. |

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| | |
|---|---|
| ResourceNotFound.Topic | The topic does not exist. |

# CreateSubscription

Last updated：2023-08-09 14:43:26

## 1. API Description

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

This API is used to create a subscription to a topic.

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: CreateSubscription. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Environment (namespace) name. |
| TopicName | Yes | String | Topic name. |
| SubscriptionName | Yes | String | Subscriber name, which can contain up to 128 characters. |
| IsIdempotent | Yes | Boolean | Whether the creation is idempotent; if not, you cannot create subscriptions with the same name. |
| Remark | No | String | Remarks (up to 128 characters). |

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| | | | |
|---|---|---|---|
| ClusterId | No | String | Pulsar cluster ID |
| AutoCreatePolicyTopic | No | Boolean | Whether to automatically create a dead letter topic and a retry letter topic. true: yes (default value); false: no. |
| PostFixPattern | No | String | Naming convention for dead letter and retry letter topics. `LEGACY` indicates to use the legacy naming convention, and `COMMUNITY` indicates to use the naming convention in the Pulsar community. |

# 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| Result | Boolean | Creation result. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Creating a subscription

#### Input Example

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

{
"EnvironmentId": "default",
"Remark": "Create a subscription",
"IsIdempotent": "true",
"TopicName": "cloud_test",
"SubscriptionName": "cloud_sub",
"AutoCreatePolicyTopic": "true"
}
```

### Output Example

```
{
"Response": {
"Result": true,
"RequestId": "15288803-dadb-4499-9b5b-ff2f631ca68e"
}
}
```

# 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.CreateSubscription | Failed to create the subscription. |
| | |

| | |
|---|---|
| FailedOperation.GetTopicPartitionsFailed | Failed to get the number of topic partitions. |
| InternalError.Retry | You can try again. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| LimitExceeded.Subscriptions | The number of subscribers under the instance exceeds the limit. |
| LimitExceeded.Topics | The number of topics under the instance exceeds the limit. |
| ResourceInUse.Subscription | A subscription with the same name already exists. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# ResetMsgSubOffsetByTimestamp

Last updated：2023-08-09 14:43:25

## 1. API Description

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

This API is used to rewind a message by timestamp, accurate down to the millisecond.

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: ResetMsgSubOffsetByTimestamp. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| EnvironmentId | Yes | String | Namespace name. |
| TopicName | Yes | String | Topic name. |
| Subscription | Yes | String | Subscriber name. |
| ToTimestamp | Yes | Integer | Timestamp, accurate down to the millisecond. |
| ClusterId | No | String | Pulsar cluster ID |

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# 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| Result | Boolean | Result.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Rewinding message

#### Input Example

```
https://tdmq.tencentcloudapi.com/?Action=ResetMsgSubOffsetByTimestamp
&EnvironmentId=default
&TopicName=cloud_test
&Subscription=cloud_sub
&ToTimestamp=1585901708600
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"Result": true,
"RequestId": "3593f784-fcfb-4f23-b3dd-4751cba3aec7"
}
}
```

# 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| AuthFailure.UnauthorizedOperation | CAM authentication failed. |
| FailedOperation | Operation failed. |
| FailedOperation.ResetMsgSubOffsetByTimestampFailed | Failed to configure message rewind. |
| InternalError.SystemError | System error. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Subscription | The subscription does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |

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# DescribePublishers

Last updated：2023-08-09 14:43:25

## 1. API Description

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

This API is used to obtain the list of producer 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: DescribePublishers. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID. |
| Namespace | Yes | String | Namespace name. |
| Topic | Yes | String | Topic name. |
| Filters.N | No | Array of Filter | Parameter filter. The `ProducerName` and `Address` fields are supported. |
| Offset | No | Integer | Offset for query. Default value: `0` . |
| | | | |

| | | | |
|---|---|---|---|
| Limit | No | Integer | The number of query results displayed per page. Default value: `20` . |
| Sort | No | Sort | Sort by field. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| TotalCount | Integer | Total number of query results. |
| Publishers | Array of Publisher | List of producer information.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Obtaining producer list

#### Input Example

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

{
"Sort": {
"Name": "xx",
"Order": "xx"
},
"ClusterId": "xx",
"Namespace": "xx",
"Topic": "xx",
"Limit": 0,
"Filters": [
{
```

```
"Values": [
"xx"
],
"Name": "xx"
}
],
"Offset": 0
}
```

**Output Example**

```
{
"Response": {
"TotalCount": 0,
"RequestId": "xx",
"Publishers": [
{
"ConnectedSince": "xx",
"MsgThroughputIn": 0.0,
"ClientVersion": "xx",
"ProducerId": 0,
"Partition": 0,
"AverageMsgSize": 0.0,
"ProducerName": "xx",
"Address": "xx",
"MsgRateIn": 0.0
}
]
}
}
```

# 5. Developer Resources

## SDK

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

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- Tencent Cloud SDK 3.0 for PHP
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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 |
| --- | --- |
| ResourceNotFound.Topic | The topic does not exist. |

# DescribePublisherSummary

Last updated：2023-08-09 14:43:25

## 1. API Description

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

This API is used to obtain message production overview 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: DescribePublisherSummary. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID. |
| Namespace | Yes | String | Namespace name. |
| Topic | Yes | String | Topic name. |

## 3. Output Parameters

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

| Parameter Name | Type | Description |
| --- | --- | --- |
| MsgRateIn | Float | Production rate (messages/sec).<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| MsgThroughputIn | Float | Production rate (byte/sec).<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| PublisherCount | Integer | The number of producers.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| StorageSize | Integer | Message storage size in bytes.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

# 4. Example

### Example1 Obtaining producer overview

#### Input Example

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

{
"Topic": "xx",
"Namespace": "xx",
"ClusterId": "xx"
}
```

#### Output Example

```
{
"Response": {
"MsgRateIn": 0.0,
```

```
"PublisherCount": 0,
"StorageSize": 0,
"RequestId": "xx",
"MsgThroughputIn": 0.0
}
}
```

# 5. Developer Resources

### SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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.Topic | The topic does not exist. |

# ResetRocketMQConsumerOffSet

Last updated：2023-08-09 14:43:25

## 1. API Description

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

This API is used to reset the consumption offset of a specified consumer group to a specified timestamp.

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: ResetRocketMQConsumerOffSet. |
| Version | Yes | String | Common Params. The value used for this API: 2020-02-17. |
| Region | No | String | Common Params. This parameter is not required for this API. |
| ClusterId | Yes | String | Cluster ID. |
| NamespaceId | Yes | String | Namespace name. |
| GroupId | Yes | String | Consumer group name. |
| Topic | Yes | String | Topic name. |
| Type | Yes | Integer | Reset method. 0: Start from the latest offset; 1: Start from specified time point. |
| ResetTimestamp | No | Integer | The specified timestamp that has been reset, in milliseconds. This |

| | | | |
|---|---|---|---|
| | | | parameter only takes effect when the value of `Type` is `1`. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| RequestId | String | The unique request ID, which is returned for each request. RequestId is required for locating a problem. |

## 4. Example

### Example1 Resetting consumption offset

#### Input Example

```
https://tdmq.tencentcloudapi.com/?
Action=ResetRocketMQConsumerOffSet
&ClusterId=ocketmq-2p9vx3ax9jxg
&NamespaceId=example
&GroupId=group-example
&Topic=example-topic
&Type=0
&<Common request parameters>
```

#### Output Example

```
{
"Response": {
"RequestId": "def4f676-27fc-4437-b4a3-cf1509726f98"
}
}
```

## 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
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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 | Operation failed. |
| InternalError | Internal error. |
| InvalidParameter | Incorrect parameter. |
| ResourceInUse | The resource is in use. |
| ResourceNotFound | The resource does not exist. |

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# Data Types

Last updated：2024-11-27 16:57:13

## BindCluster

Information of dedicated clusters

Used by actions: DescribeBindClusters.

| Name | Type | Description |
| --- | --- | --- |
| ClusterName | String | Name of a physical cluster. |

## Cluster

Set of cluster information

Used by actions: DescribeClusterDetail, DescribeClusters.

| Name | Type | Description |
| --- | --- | --- |
| ClusterId | String | Cluster ID. |
| ClusterName | String | Cluster name. |
| Remark | String | Remarks. |
| EndPointNum | Integer | Number of access points |
| CreateTime | String | Creation time |
| Healthy | Integer | Whether the cluster is healthy. 1: healthy; 0: exceptional |
| HealthyInfo | String | Cluster health information<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Status | Integer | Cluster status. 0: creating; 1: normal; 2: terminating; 3: deleted; 4. isolated; 5. creation failed; 6: deletion failed |
| MaxNamespaceNum | Integer | Maximum number of namespaces |
| MaxTopicNum | Integer | Maximum number of topics |

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| | | |
|---|---|---|
| MaxQps | Integer | Maximum QPS |
| MessageRetentionTime | Integer | Maximum message retention period in seconds |
| MaxStorageCapacity | Integer | Maximum storage capacity |
| Version | String | Cluster version<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PublicEndPoint | String | Public network access point<br>Note: this field may return null, indicating that no valid values can be obtained. |
| VpcEndPoint | String | VPC access point<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NamespaceNum | Integer | Number of namespaces<br>Note: this field may return null, indicating that no valid values can be obtained. |
| UsedStorageBudget | Integer | Limit of used storage in MB<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxPublishRateInMessages | Integer | Maximum message production rate in messages<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxDispatchRateInMessages | Integer | Maximum message push rate in messages<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxPublishRateInBytes | Integer | Maximum message production rate in bytes<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxDispatchRateInBytes | Integer | Maximum message push rate in bytes<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TopicNum | Integer | Number of created topics<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxMessageDelayInSeconds | Integer | Maximum message delay in seconds |

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| | | |
|---|---|---|
| | | Note: this field may return null, indicating that no valid values can be obtained. |
| PublicAccessEnabled | Boolean | Whether to enable public network access. If this parameter is left empty, the feature will be enabled by default<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Tags | Array of Tag | Tag<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PayMode | Integer | Billing mode:<br>`0` : Pay-as-you-go<br>`1` : Monthly subscription<br>Note: This field may return `null` , indicating that no valid values can be obtained. |

## CmqDeadLetterPolicy

cmq DeadLetterPolicy

Used by actions: DescribeCmqQueueDetail, DescribeCmqQueues.

| Name | Type | Description |
|---|---|---|
| DeadLetterQueue | String | Dead letter queue.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Policy | Integer | Dead letter queue policy.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxTimeToLive | Integer | Maximum period in seconds before an unconsumed message expires, which is required if `Policy` is 1. Value range: 300–43200. This value should be smaller than `MsgRetentionSeconds` (maximum message retention period)<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxReceiveCount | Integer | Maximum number of receipts.<br>Note: this field may return null, indicating that no valid values can be obtained. |

## CmqDeadLetterSource

Cmq DeadLetterSource

Used by actions: DescribeCmqDeadLetterSourceQueues, DescribeCmqQueueDetail, DescribeCmqQueues.

| Name | Type | Description |
| --- | --- | --- |
| QueueId | String | Message queue ID.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| QueueName | String | Message queue name.<br>Note: this field may return null, indicating that no valid values can be obtained. |

## CmqQueue

Batch queue attribute information of CMQ

Used by actions: DescribeCmqQueueDetail, DescribeCmqQueues.

| Name | Type | Description |
| --- | --- | --- |
| QueueId | String | Message queue ID. |
| QueueName | String | Message queue name. |
| Qps | Integer | Limit of the number of messages produced per second. The value for consumed messages is 1.1 times this value.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Bps | Integer | Bandwidth limit.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxDelaySeconds | Integer | Maximum retention period for inflight messages.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxMsgHeapNum | Integer | Maximum number of heaped messages. The value range is 1,000,000–10,000,000 during the beta test and can be 1,000,000–1,000,000,000 after the product is officially released. The default value is 10,000,000 during the beta test and will be 100,000,000 after the product is officially released. |
| PollingWaitSeconds | Integer | Long polling wait time for message reception. Value range: 0–30 seconds. Default value: 0. |

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| | | |
|---|---|---|
| | | Note: this field may return null, indicating that no valid values can be obtained. |
| MsgRetentionSeconds | Integer | Message retention period. Value range: 60–1296000 seconds (i.e., 1 minute–15 days). Default value: 345600 (i.e., 4 days).<br>Note: this field may return null, indicating that no valid values can be obtained. |
| VisibilityTimeout | Integer | Message visibility timeout period. Value range: 1–43200 seconds (i.e., 12 hours). Default value: 30.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxMsgSize | Integer | Maximum message length. Value range: 1024–1048576 bytes (i.e., 1–1024 KB). Default value: 65536.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RewindSeconds | Integer | Maximum time range during which a message can be rewound in the queue, which ranges from 0 to 43,200 seconds. 0 indicates that message rewind is disabled.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateTime | Integer | Queue creation time. A Unix timestamp accurate down to the millisecond will be returned.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LastModifyTime | Integer | Time when the queue attribute is last modified. A Unix timestamp accurate down to the millisecond will be returned.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ActiveMsgNum | Integer | Total number of messages in `Active` status (i.e., unconsumed) in the queue, which is an approximate value.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InactiveMsgNum | Integer | Total number of messages in `Inactive` status (i.e., being consumed) in the queue, which is an approximate value.<br>Note: this field may return null, indicating that no valid values can be obtained. |

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| | | |
|---|---|---|
| DelayMsgNum | Integer | Number of delayed messages.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RewindMsgNum | Integer | Number of retained messages which have been deleted by the `DelMsg` API but are still within their rewind time range.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MinMsgTime | Integer | Minimum unconsumed time of message in seconds.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Transaction | Boolean | Transaction message queue. true: transaction message type; false: other message types.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| DeadLetterSource | Array of CmqDeadLetterSource | Dead letter queue.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| DeadLetterPolicy | CmqDeadLetterPolicy | Dead letter queue policy.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TransactionPolicy | CmqTransactionPolicy | Transaction message policy.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateUin | Integer | Creator `Uin` .<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Tags | Array of Tag | Associated tag.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Trace | Boolean | Message trace. true: enabled; false: not enabled<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TenantId | String | Tenant ID<br>Note: this field may return null, indicating that no valid values can be obtained. |

| | | |
|---|---|---|
| NamespaceName | String | Namespace name<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Status | Integer | Cluster status. 0: creating; 1: normal; 2: terminating; 3: deleted; 4. isolated; 5. creation failed; 6: deletion failed<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| MaxUnackedMsgNum | Integer | The maximum number of unacknowledged messages.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| MaxMsgBacklogSize | Integer | Maximum size of heaped messages in bytes.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| RetentionSizeInMB | Integer | Queue storage space configured for message rewind. Value range: 1,024-10,240 MB (if message rewind is enabled). The value “0” indicates that message rewind is not enabled.<br>Note: This field may return `null` , indicating that no valid values can be obtained. |

## CmqSubscription

Subscription response parameter in CMQ

Used by actions: DescribeCmqSubscriptionDetail.

| Name | Type | Description |
|---|---|---|
| SubscriptionName | String | Subscription name, which must be unique in the same topic under the same account in the same region. It can contain up to 64 letters, digits, and hyphens and must begin with a letter.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SubscriptionId | String | Subscription ID, which will be used during monitoring data pull.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TopicOwner | Integer | Subscription owner `APPID` .<br>Note: this field may return null, indicating that no valid values can be obtained. |

| | | |
|---|---|---|
| MsgCount | Integer | Number of messages to be delivered in the subscription.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LastModifyTime | Integer | Time when the subscription attribute is last modified. A Unix timestamp accurate down to the millisecond will be returned.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateTime | Integer | Subscription creation time. A Unix timestamp accurate down to the millisecond will be returned.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| BindingKey | Array of String | Filtering policy for subscribing to and receiving messages.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Endpoint | String | Endpoint that receives notifications, which varies by `protocol` : for HTTP, the endpoint must start with `http://` , and the `host` can be a domain or IP; for `queue` , `queueName` should be entered.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| FilterTags | Array of String | Filtering policy selected when a subscription is created:<br>If `filterType` is 1, `filterTag` will be used for filtering.<br>If `filterType` is 2, `bindingKey` will be used for filtering.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Protocol | String | Subscription protocol. Currently, two protocols are supported: HTTP and queue. To use the HTTP protocol, you need to build your own web server to receive messages. With the queue protocol, messages are automatically pushed to a CMQ queue and you can pull them concurrently.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NotifyStrategy | String | CMQ push server retry policy in case an error occurs while pushing a message to the endpoint. Valid values:<br>(1) BACKOFF_RETRY: backoff retry, which is to retry at a fixed interval, discard the message after a certain number of retries, and continue to push the next message.<br>(2) EXPONENTIAL_DECAY_RETRY: exponential decay retry, which is to retry at an exponentially increasing interval, such as 1s, 2s, 4s, 8s, and so on. As a message can be retained in a topic for one day, failed messages will be discarded at most after one day of retry. Default value: |

| | | |
|---|---|---|
| | | EXPONENTIAL_DECAY_RETRY.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NotifyContentFormat | String | Push content format. Valid values: 1. JSON; 2. SIMPLIFIED, i.e., the raw format. If `protocol` is `queue`, this value must be `SIMPLIFIED`. If `protocol` is `HTTP`, both values are acceptable, and the default value is `JSON`.<br>Note: this field may return null, indicating that no valid values can be obtained. |

## CmqTopic

Display field of the returned CMQ topic information

Used by actions: DescribeCmqTopicDetail, DescribeCmqTopics.

| Name | Type | Required | Description |
|---|---|---|---|
| TopicId | String | Yes | Topic ID.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TopicName | String | Yes | Topic name.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MsgRetentionSeconds | Integer | Yes | Maximum lifecycle of message in topic. After the period specified by this parameter has elapsed since a message is sent to the topic, the message will be deleted no matter whether it has been successfully pushed to the user. This parameter is measured in seconds and defaulted to one day (86,400 seconds), which cannot be modified.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxMsgSize | Integer | Yes | Maximum message size, which ranges from 1,024 to 1,048,576 bytes (i.e., 1–1,024 KB). The default value is 65,536.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Qps | Integer | Yes | Number of messages published per second.<br>Note: this field may return null, indicating that no valid values can be obtained. |

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| | | | |
|---|---|---|---|
| FilterType | Integer | Yes | Filtering policy selected when a subscription is created:<br>If `filterType` is 1, `FilterTag` will be used for filtering.<br>If `filterType` is 2, `BindingKey` will be used for filtering.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateTime | Integer | Yes | Topic creation time. A Unix timestamp accurate down to the millisecond will be returned.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LastModifyTime | Integer | Yes | Time when the topic attribute is last modified. A Unix timestamp accurate down to the millisecond will be returned.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MsgCount | Integer | Yes | Number of current messages in the topic (number of retained messages).<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateUin | Integer | Yes | Creator `Uin`. The `resource` field for CAM authentication is composed of this field.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Tags | Array of Tag | Yes | Associated tag.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Trace | Boolean | Yes | Message trace. true: enabled; false: not enabled<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TenantId | String | Yes | Tenant ID<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NamespaceName | String | Yes | Namespace name<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Status | Integer | Yes | Cluster status. 0: creating; 1: normal; 2: terminating; 3: |

| | | | |
|---|---|---|---|
| | | | deleted; 4. isolated; 5. creation failed; 6: deletion failed<br>Note: This field may return `null` , indicating that no valid values can be obtained. |
| BrokerType | Integer | Yes | Valid values: `0` (Pulsar), `1` (RocketMQ).<br>Note: This field may return null, indicating that no valid values can be obtained. |

## CmqTransactionPolicy

cmq TransactionPolicy

Used by actions: DescribeCmqQueueDetail, DescribeCmqQueues.

| Name | Type | Description |
|---|---|---|
| FirstQueryInterval | Integer | First lookback time.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| MaxQueryCount | Integer | Maximum number of queries.<br>Note: this field may return null, indicating that no valid values can be obtained. |

## Consumer

Consumer

Used by actions: DescribeSubscriptions.

| Name | Type | Description |
|---|---|---|
| ConnectedSince | String | The time when the consumer started connecting.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerAddr | String | Consumer address.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerName | String | Consumer name.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ClientVersion | String | Consumer version.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Partition | Integer | Serial number of the topic partition connected to the consumer. |

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| | | |
|---|---|---|
| | | Note: This field may return null, indicating that no valid values can be obtained. |

## ConsumersSchedule

Consumption progress details

Used by actions: DescribeSubscriptions.

| Name | Type | Description |
|---|---|---|
| Partitions | Integer | ID of the current partition.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| NumberOfEntries | Integer | The number of messages.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgBacklog | Integer | The number of heaped messages.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgRateOut | String | The total number of messages delivered by the consumer per second. |
| MsgThroughputOut | String | The size (in bytes) of messages consumed by the consumer per second. |
| MsgRateExpired | String | Percentage of messages discarded due to timeout.<br>Note: This field may return null, indicating that no valid values can be obtained. |

## Environment

Namespace information

Used by actions: DescribeEnvironments.

| Name | Type | Description |
|---|---|---|
| EnvironmentId | String | Namespace name. |
| Remark | String | Description. |
| MsgTTL | Integer | Retention period for unconsumed messages in seconds.<br>Maximum value: 1,296,000 seconds (15 days). |

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| | | |
|---|---|---|
| CreateTime | Timestamp | Creation time. |
| UpdateTime | Timestamp | Last modified. |
| NamespaceId | String | Namespace ID. |
| NamespaceName | String | Namespace name. |
| TopicNum | Integer | The number of topics.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RetentionPolicy | RetentionPolicy | Message retention policy.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| AutoSubscriptionCreation | Boolean | Whether to enable "Auto-Create Subscription"<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

# EnvironmentRole

Set of environment roles

Used by actions: DescribeEnvironmentRoles.

| Name | Type | Description |
|---|---|---|
| EnvironmentId | String | Environment (namespace). |
| RoleName | String | Role name. |
| Permissions | Array of String | Permissions, which is a non-empty string array of `produce` and `consume` at the most. |
| RoleDescribe | String | Role description. |
| CreateTime | Timestamp | Creation time. |
| UpdateTime | Timestamp | Update time. |

# EnvironmentRoleSet

Relationship between the namespaces that are bound in batches and role permissions

Used by actions: CreateRole.

| Name | Type | Required | Description |
| --- | --- | --- | --- |
| EnvironmentId | String | Yes | The IDs of the bound namespaces cannot be delicate and the namespaces must contain resources<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| Permissions | Array of String | Yes | Permissions to be bound to a namespace. Enumerated values: `consume` , `produce` , and `consume, produce` . This parameter cannot be left empty.<br><br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

# Filter

Filter parameter

Used by actions: DescribeClusters, DescribeCmqQueues, DescribeCmqTopics, DescribeEnvironmentRoles, DescribeEnvironments, DescribePublishers, DescribePulsarProInstances, DescribeRabbitMQNodeList, DescribeRabbitMQVipInstances, DescribeRabbitMQVirtualHost, DescribeRocketMQClusters, DescribeRocketMQVipInstances, DescribeRoles, DescribeTopics.

| Name | Type | Required | Description |
| --- | --- | --- | --- |
| Name | String | No | Filter parameter name |
| Values | Array of String | No | Value |

# FilterSubscription

Filter subscriptions

Used by actions: DescribeSubscriptions.

| Name | Type | Required | Description |
| --- | --- | --- | --- |
| ConsumerHasCount | Boolean | No | Whether to only display subscriptions that include real |

| | | | |
|---|---|---|---|
| | | | consumers. |
| ConsumerHasBacklog | Boolean | No | Whether to only display subscriptions with heaped messages. |
| ConsumerHasExpired | Boolean | No | Whether to only display subscriptions with messages discarded after expiration. |
| SubscriptionNames | Array of String | No | Filter by subscription name for exact query. |

## InstanceNodeDistribution

Information of instance node distribution

Used by actions: DescribePulsarProInstanceDetail, DescribeRocketMQVipInstanceDetail.

| Name | Type | Description |
|---|---|---|
| ZoneName | String | AZ |
| ZoneId | String | AZ ID |
| NodeCount | Integer | Number of nodes |

## PartitionsTopic

Partitioned topic

Used by actions: DescribeTopics.

| Name | Type | Description |
|---|---|---|
| AverageMsgSize | String | Average size of the messages published in the last interval in bytes.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerCount | String | The number of consumers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| LastConfirmedEntry | String | The total number of recorded messages.<br>Note: This field may return null, indicating that no valid values can |

| | | |
|---|---|---|
| | | be obtained. |
| LastLedgerCreatedTimestamp | String | Time when the last ledger was created.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgRateIn | String | The number of messages published by local and replicated publishers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgRateOut | String | The total number of messages delivered by local and replicated consumers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgThroughputIn | String | The size (in bytes) of messages published by local and replicated publishers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgThroughputOut | String | The size (in bytes) of messages delivered by local and replicated consumers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| NumberOfEntries | String | The total number of recorded messages.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Partitions | Integer | Subpartition ID.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ProducerCount | String | The number of producers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| TotalSize | String | Total size of all stored messages in bytes.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| TopicType | Integer | Topic type description.<br>Note: This field may return null, indicating that no valid values can be obtained. |

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# Publisher

Producer information

Used by actions: DescribePublishers.

| Name | Type | Description |
| --- | --- | --- |
| ProducerId | Integer | Producer ID.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| ProducerName | String | Producer name.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| Address | String | Producer address.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| ClientVersion | String | Client version.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| MsgRateIn | Float | Message production rate (message/sec).<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| MsgThroughputIn | Float | Message production throughput rate (byte/sec).<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| AverageMsgSize | Float | Average message size in bytes.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| ConnectedSince | String | Connection time.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |
| Partition | Integer | Serial number of the topic partition connected to the producer.<br>Note: this field may return `null` , indicating that no valid values can be obtained. |

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# PulsarNetworkAccessPointInfo

TDMQ for Pulsar network access point information

Used by actions: DescribePulsarProInstanceDetail.

| Name | Type | Description |
| --- | --- | --- |
| VpcId | String | VPC ID. This field is left empty for supporting network and public network access points.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| SubnetId | String | Subnet ID. This field is left empty for supporting network and public network access points.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Endpoint | String | Access address |
| InstanceId | String | Instance ID |
| RouteType | Integer | Access point type:<br>`0` : Supporting network access point<br>`1` : VPC access point<br>`2` : Public network access point |

# PulsarProClusterInfo

TDMQ for Pulsar pro cluster information

Used by actions: DescribePulsarProInstanceDetail.

| Name | Type | Description |
| --- | --- | --- |
| ClusterId | String | Cluster ID |
| ClusterName | String | Cluster name |
| Remark | String | Description |
| CreateTime | String | Creation time |
| Status | Integer | Cluster status. Valid values: `0` (Creating), `1` (Normal), `2` (Isolated). |
| Version | String | Cluster version |

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| | | |
|---|---|---|
| NodeDistribution | Array of InstanceNodeDistribution | Node distribution<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MaxStorage | Integer | Max storage capacity in MB |
| CanEditRoute | Boolean | Whether the route can be modified<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

## PulsarProClusterSpecInfo

TDMQ for Pulsar pro cluster specification information

Used by actions: DescribePulsarProInstanceDetail.

| Name | Type | Description |
|---|---|---|
| SpecName | String | Cluster specification name |
| MaxTps | Integer | Peak TPS |
| MaxBandWidth | Integer | Peak bandwidth in Mbps |
| MaxNamespaces | Integer | Maximum number of namespaces |
| MaxTopics | Integer | Maximum number of topic partitions |
| ScalableTps | Integer | Elastic TPS beyond the specification<br>Note: This field may return null, indicating that no valid values can be obtained. |

## PulsarProInstance

TDMQ for Pulsar pro instance information

Used by actions: DescribePulsarProInstances.

| Name | Type | Description |
|---|---|---|
| InstanceId | String | Instance ID |
| InstanceName | String | Instance name |
| InstanceVersion | String | Instance version |

| | | |
|---|---|---|
| Status | Integer | Instance status. Valid values: `0` (Creating), `1` (Normal), `2` (Isolated), `3` (Terminated), `4` (Abnormal), `5` (Delivery failed), `6` (Adjusting configuration), `7` (Configuration adjustment failed). |
| ConfigDisplay | String | Instance specification name |
| MaxTps | Integer | Peak TPS |
| MaxStorage | Integer | Storage capacity in GB |
| ExpireTime | Integer | Instance expiration time in milliseconds |
| AutoRenewFlag | Integer | Renewal mode. Valid values: `0` (Manual renewal, which is the default mode), `1` (Auto-renewal), `2` (Manual renewal, which is specified by users). |
| PayMode | Integer | Payment mode. Valid values: `0` (Pay-as-you-go), `1` (Monthly subscription). |
| Remark | String | Remarks<br>Note: This field may return null, indicating that no valid values can be obtained. |
| SpecName | String | Instance specification ID |
| ScalableTps | Integer | Elastic TPS beyond the specification<br>Note: This field may return null, indicating that no valid values can be obtained. |
| VpcId | String | VPC ID<br>Note: This field may return null, indicating that no valid values can be obtained. |
| SubnetId | String | Subnet ID<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MaxBandWidth | Integer | Peak bandwidth in Mbps |

## RabbitMQPrivateNode

TDMQ for RabbitMQ node information

Used by actions: DescribeRabbitMQNodeList.

| Name | Type | Description |
|---|---|---|
| NodeName | String | Node name<br>Note: This field may return null, indicating that no valid value can be obtained. |
| NodeStatus | String | Node status |

| | | |
|---|---|---|
| | | Note: This field may return null, indicating that no valid value can be obtained. |
| CPUUsage | String | CPU utilization<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Memory | Integer | Memory usage in MB<br>Note: This field may return null, indicating that no valid values can be obtained. |
| DiskUsage | String | Disk utilization<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ProcessNumber | Integer | The number of RabbitMQ Erlang processes<br>Note: This field may return null, indicating that no valid values can be obtained. |

## RabbitMQPrivateVirtualHost

TDMQ for RabbitMQ exclusive vhost

Used by actions: DescribeRabbitMQVirtualHostList.

| Name | Type | Description |
|---|---|---|
| VirtualHostName | String | Vhost name<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| Description | String | Vhost description<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

## RabbitMQUser

TDMQ for RabbitMQ user entity details

Used by actions: DescribeRabbitMQUser.

| Name | Type | Description |
|---|---|---|
| InstanceId | String | Cluster instance ID |
| User | String | Username, which is used for login. |
| Password | String | Password, which is used for login. |

| | | |
|---|---|---|
| Description | String | User description<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| Tags | Array of String | User tag, which defines a user's permission scope for accessing RabbitMQ Managementu200d.<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| CreateTime | String | User creation time |
| ModifyTime | String | Last user modification time |
| Type | String | User type. Valid values: `System` (Created by system), `User` (Created by user). |

## RabbitMQVipInstance

TDMQ for RabbitMQ exclusive instance information

Used by actions: DescribeRabbitMQVipInstances.

| Name | Type | Description |
|---|---|---|
| InstanceId | String | Instance ID |
| InstanceName | String | Instance name |
| InstanceVersion | String | Instance version<br>Note: This field may return null, indicating that no valid value can be obtained. |
| Status | Integer | Instance status. Valid values: `0` (Creating), `1` (Normal), `2` (Isolated), `3` (Terminated), `4` (Abnormal), `5` (Delivery failed). |
| NodeCount | Integer | Number of nodes |
| ConfigDisplay | String | Instance specification name |
| MaxTps | Integer | Peak TPS |
| MaxBandWidth | Integer | Peak bandwidth in Mbps |
| MaxStorage | Integer | Storage capacity in GB |
| ExpireTime | Integer | Instance expiration time in milliseconds |

| | | |
|---|---|---|
| AutoRenewFlag | Integer | Renewal mode. Valid values: `0` (Manual renewal, which is the default mode), `1` (Auto-renewal), `2` (Manual renewal, which is specified by users). |
| PayMode | Integer | Payment mode. `0` : Postpaid; `1` : Prepaid. |
| Remark | String | Remarks<br>Note: This field may return null, indicating that no valid value can be obtained. |
| SpecName | String | Instance specification ID |
| ExceptionInformation | String | Cluster exception<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ClusterStatus | Integer | Instance status. Valid values: `0` (Creating), `1` (Normal), `2` (Isolated), `3` (Terminated), `4` (Abnormal), `5` (Delivery failed).<br>This parameter is used to display the instance status additionally and distinguish from the `Status` parameter. |

## RabbitMQVirtualHostInfo

TDMQ for RabbitMQ vhost details

Used by actions: DescribeRabbitMQVirtualHost.

| Name | Type | Description |
|---|---|---|
| InstanceId | String | Cluster instance ID |
| VirtualHost | String | Vhost name |
| Description | String | Vhost description<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| Tags | Array of String | Vhost tag<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| CreateTime | String | Creation time<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| | | |

| | | |
|---|---|---|
| ModifyTime | String | Modification time<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| VirtualHostStatistics | RabbitMQVirtualHostStatistics | Statistics of vhost overview<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| Status | String | |
| MessageHeapCount | Integer | |
| MessageRateIn | Float | |
| MessageRateOut | Float | |

## RabbitMQVirtualHostStatistics

Statistics of vhost overview

Used by actions: DescribeRabbitMQVirtualHost.

| Name | Type | Description |
|---|---|---|
| CurrentQueues | Integer | The number of queues in the current vhost |
| CurrentExchanges | Integer | The number of exchanges in the current vhost |
| CurrentConnections | Integer | The number of connections in the current vhost |
| CurrentChannels | Integer | The number of channels in the current vhost |
| CurrentUsers | Integer | The number of users in the current vhost |

## RetentionPolicy

Message retention policy

Used by actions: CreateEnvironment, DescribeEnvironments, ModifyEnvironmentAttributes.

| Name | Type | Required | Description |
|---|---|---|---|
| TimeInMinutes | Integer | Yes | Message retention period |
| | | | |

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| | | | |
|---|---|---|---|
| SizeInMB | Integer | Yes | Message retention size |

## RocketMQClusterConfig

RocketMQ cluster configuration

Used by actions: DescribeRocketMQCluster, DescribeRocketMQClusters.

| Name | Type | Description |
|---|---|---|
| MaxTpsPerNamespace | Integer | Maximum TPS per namespace |
| MaxNamespaceNum | Integer | Maximum number of namespaces |
| UsedNamespaceNum | Integer | Number of used namespaces |
| MaxTopicNum | Integer | Maximum number of topics |
| UsedTopicNum | Integer | Number of used topics |
| MaxGroupNum | Integer | Maximum number of groups |
| UsedGroupNum | Integer | Number of used groups |
| MaxRetentionTime | Integer | Maximum message retention period in milliseconds |
| MaxLatencyTime | Integer | Maximum message delay in milliseconds |
| MaxQueuesPerTopic | Integer | The maximum number of queues in a single topic<br>Note: This field may return null, indicating that no valid values can be obtained. |

## RocketMQClusterDetail

Details of the tenant's RocketMQ cluster

Used by actions: DescribeRocketMQClusters.

| Name | Type | Description |
|---|---|---|
| Info | RocketMQClusterInfo | Basic cluster information. |
| Config | RocketMQClusterConfig | Cluster configuration information. |
| | | |

| | | |
|---|---|---|
| Status | Integer | Cluster status. 0: Creating; 1: Normal; 2: Terminating; 3: Deleted; 4. Isolated; 5. Creation failed; 6: Deletion failed.<br>Note: This field may return null, indicating that no valid values can be obtained. |

## RocketMQClusterInfo

RocketMQ cluster's basic information

Used by actions: DescribeRocketMQCluster, DescribeRocketMQClusters, DescribeRocketMQVipInstanceDetail.

| Name | Type | Description |
|---|---|---|
| ClusterId | String | Cluster ID |
| ClusterName | String | Cluster name |
| Region | String | Region information |
| CreateTime | Integer | Creation time in milliseconds |
| Remark | String | Cluster remarks<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PublicEndPoint | String | Public network access address |
| VpcEndPoint | String | VPC access address |
| SupportNamespaceEndpoint | Boolean | Whether the namespace access point is supported.<br>Note: This field may return `null` , indicating that no valid values can be obtained. |
| Vpcs | Array of VpcConfig | VPC Information<br>Note: This field may return null, indicating that no valid values can be obtained. |
| IsVip | Boolean | Whether it is an exclusive instance<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RocketMQFlag | Boolean | TDMQ for RocketMQ cluster type flag<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Status | Integer | Billing status ( `1` : Normal; `2` : Service suspended; `3` : |

| | | |
|---|---|---|
| | | Terminated)<br>Note: This field may return null, indicating that no valid values can be obtained. |
| IsolateTime | Integer | Service suspension time in milliseconds<br>Note: This field may return null, indicating that no valid values can be obtained. |
| HttpPublicEndpoint | String | HTTP-based public network access address<br>Note: This field may return null, indicating that no valid values can be obtained. |
| HttpVpcEndpoint | String | HTTP-based VPC access address<br>Note: This field may return null, indicating that no valid values can be obtained. |
| InternalEndpoint | String | Internal TCP access address<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| HttpInternalEndpoint | String | Internal HTTP access address<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

## RocketMQClusterRecentStats

Recent RocketMQ usage

Used by actions: DescribeRocketMQCluster.

| Name | Type | Description |
|---|---|---|
| TopicNum | Integer | Number of topics |
| ProducedMsgNum | Integer | Number of produced messages |
| ConsumedMsgNum | Integer | Number of consumed messages |
| AccumulativeMsgNum | Integer | Number of retained messages |

## RocketMQGroup

RocketMQ consumer group information

Used by actions: DescribeRocketMQGroups.

| Name | Type | Description |
| --- | --- | --- |
| Name | String | Consumer group name. |
| ConsumerNum | Integer | The number of online consumers. |
| TPS | Integer | Consumption TPS. |
| TotalAccumulative | Integer | The total number of heaped messages. |
| ConsumptionMode | Integer | 0: Cluster consumption mode; 1: Broadcast consumption mode; -1: Unknown. |
| ReadEnabled | Boolean | Whether to allow consumption. |
| RetryPartitionNum | Integer | The number of partitions in a retry topic.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| CreateTime | Integer | Creation time in milliseconds. |
| UpdateTime | Integer | Modification time in milliseconds. |
| ClientProtocol | String | Client protocol. |
| Remark | String | Description.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerType | String | Consumer type. Enumerated values: `ACTIVELY` or `PASSIVELY`.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| BroadcastEnabled | Boolean | Whether to enable broadcast consumption. |
| GroupType | String | Group type<br>Note: This field may return null, indicating that no valid values can be obtained. |
| RetryMaxTimes | Integer | The number of retries<br>Note: This field may return null, indicating that no valid values can be obtained. |

## RocketMQInstanceConfig

Instance configurations of a TDMQ for RocketMQ exclusive cluster

Used by actions: DescribeRocketMQVipInstanceDetail.

| Name | Type | Description |
| --- | --- | --- |
| MaxTpsPerNamespace | Integer | Maximum TPS per namespace |
| MaxNamespaceNum | Integer | Maximum number of namespaces |
| UsedNamespaceNum | Integer | Number of used namespaces |
| MaxTopicNum | Integer | Maximum number of topics |
| UsedTopicNum | Integer | Number of used topics |
| MaxGroupNum | Integer | Maximum number of groups |
| UsedGroupNum | Integer | Number of used groups |
| ConfigDisplay | String | Cluster type |
| NodeCount | Integer | Number of nodes in the cluster |
| NodeDistribution | Array of InstanceNodeDistribution | Node distribution |
| TopicDistribution | Array of RocketMQTopicDistribution | Topic distribution |
| MaxQueuesPerTopic | Integer | |

## RocketMQMessageTrack

TDMQ for RocketMQ message trace information

Used by actions: DescribeRocketMQMsg.

| Name | Type | Description |
| --- | --- | --- |
| Group | String | Consumer group |
| ConsumeStatus | String | Consumption status |
| TrackType | String | Message trace type |
| ExceptionDesc | String | Exception information<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

## RocketMQNamespace

RocketMQ namespace information

Used by actions: DescribeRocketMQNamespaces.

| Name | Type | Description |
| --- | --- | --- |
| NamespaceId | String | Namespace name, which can contain 3–64 letters, digits, hyphens, and underscores. |
| Ttl | Integer | Retention period for unconsumed messages in milliseconds. Valid range: 60 seconds–15 days. This parameter is disused. |
| RetentionTime | Integer | Retention period for persistently stored messages in milliseconds. |
| Remark | String | Description.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| PublicEndpoint | String | Public network access point address.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| VpcEndpoint | String | VPC access point address.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| InternalEndpoint | String | Internal access point address<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

## RocketMQTopic

RocketMQ topic information

Used by actions: DescribeRocketMQTopics.

| Name | Type | Description |
| --- | --- | --- |
| Name | String | Topic name. |
| Type | String | Topic type. Enumerated values: `Normal` , `GlobalOrder` , `PartitionedOrder` , `Transaction` , `Retry` , and `DeadLetter` . |
| GroupNum | Integer | The number of subscription groups |

| | | |
|---|---|---|
| Remark | String | Description.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| PartitionNum | Integer | The number of read/write partitions. |
| CreateTime | Integer | Creation time in milliseconds. |
| UpdateTime | Integer | Creation time in milliseconds. |

## RocketMQTopicDistribution

TDMQ for RocketMQ topic distribution

Used by actions: DescribeRocketMQVipInstanceDetail.

| Name | Type | Description |
|---|---|---|
| TopicType | String | Topic type |
| Count | Integer | Number of topics |

## RocketMQVipInstance

Information of TDMQ for RocketMQ exclusive instances

Used by actions: DescribeRocketMQVipInstances.

| Name | Type | Description |
|---|---|---|
| InstanceId | String | Instance ID |
| InstanceName | String | Instance name |
| InstanceVersion | String | Instance version<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Status | Integer | Instance status. Valid values: `0` (Creating), `1` (Normal), `2` (Isolated), `3` (Terminated), `4` (Abnormal), `5` (Delivery failed). |
| NodeCount | Integer | Number of nodes |
| ConfigDisplay | String | Instance specification name |
| MaxTps | Integer | Peak TPS |

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| | | |
|---|---|---|
| MaxBandWidth | Integer | Peak bandwidth in Mbps |
| MaxStorage | Integer | Storage capacity in GB |
| ExpireTime | Integer | Instance expiration time in milliseconds |
| AutoRenewFlag | Integer | Renewal mode. Valid values: `0` (Manual renewal, which is the default mode), `1` (Auto-renewal), `2` (Manual renewal, which is specified by users). |
| PayMode | Integer | Payment mode. 0: Postpaid; 1: Prepaid. |
| Remark | String | Remarks<br>Note: This field may return null, indicating that no valid values can be obtained. |
| SpecName | String | Instance specification ID |
| MaxRetention | Integer | The maximum message retention period in hours<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| MinRetention | Integer | The minimum message retention period in hours<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |
| Retention | Integer | Instance message retention period in hours<br>Note: u200dThis field may return null, indicating that no valid values can be obtained. |

## Role

Role instance

Used by actions: DescribeRoles.

| Name | Type | Description |
|---|---|---|
| RoleName | String | Role name. |
| Token | String | Value of the role token. |
| Remark | String | Remarks. |
| CreateTime | Timestamp | Creation time. |
| UpdateTime | Timestamp | Update time. |

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## Sort

Sort by field

Used by actions: DescribePublishers.

| Name | Type | Required | Description |
| --- | --- | --- | --- |
| Name | String | Yes | Sorting field. |
| Order | String | Yes | Ascending order: `ASC` ; descending order: `DESC` . |

## Subscription

Subscriber

Used by actions: DescribeSubscriptions.

| Name | Type | Description |
| --- | --- | --- |
| TopicName | String | Topic name. |
| EnvironmentId | String | Environment (namespace) name. |
| ConnectedSince | String | The time when the consumer started connecting.<br>Note: This field may return `null` , indicating that no valid values can be obtained. |
| ConsumerAddr | String | Consumer address.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerCount | String | The number of consumers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerName | String | Consumer name.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgBacklog | String | The number of heaped messages.<br>Note: This field may return null, indicating that no valid values can be obtained. |

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| | | |
|---|---|---|
| MsgRateExpired | String | Percentage of messages under this subscription that were discarded but not sent after TTL.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgRateOut | String | The total number of messages delivered by the consumer per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgThroughputOut | String | The size (in bytes) of messages consumed by the consumer per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| SubscriptionName | String | Subscription name.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerSets | Array of Consumer | Set of consumers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| IsOnline | Boolean | Whether the consumer is online.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumersScheduleSets | Array of ConsumersSchedule | Set of consumption progress information.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Remark | String | Remarks.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| CreateTime | Timestamp | Creation time.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| UpdateTime | Timestamp | Last modified.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| SubType | String | Subscription type. Valid values: `Exclusive`, `Shared`, `Failover`, and `Key_Shared`. An empty string or |

| | | |
|---|---|---|
| | | `NULL` : Unknown.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| BlockedSubscriptionOnUnackedMsgs | Boolean | Whether messages are blocked as the limit of unacknowledged messages has been reached.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MaxUnackedMsgNum | Integer | The maximum number of unacknowledged messages.<br>Note: This field may return null, indicating that no valid values can be obtained. |

## SubscriptionTopic

Subscription

Used by actions: DeleteSubscriptions.

| Name | Type | Required | Description |
|---|---|---|---|
| EnvironmentId | String | Yes | Environment (namespace) name. |
| TopicName | String | Yes | Topic name. |
| SubscriptionName | String | Yes | Subscription name. |

## Tag

Type of the tag key/value

Used by actions: CreateCluster, CreateCmqQueue, CreateCmqTopic, DescribeClusterDetail, DescribeClusters, DescribeCmqQueueDetail, DescribeCmqQueues, DescribeCmqTopicDetail, DescribeCmqTopics.

| Name | Type | Required | Description |
|---|---|---|---|
| TagKey | String | Yes | Value of the tag key |
| TagValue | String | Yes | Value of the tag value |

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# Topic

Topic instance

Used by actions: DescribeTopics.

| Name | Type | Description |
| --- | --- | --- |
| AverageMsgSize | String | Average size of the messages published in the last interval in bytes.<br>Note: This field may return `null` , indicating that no valid values can be obtained. |
| ConsumerCount | String | The number of consumers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| LastConfirmedEntry | String | The total number of recorded messages.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| LastLedgerCreatedTimestamp | String | Time when the last ledger was created.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgRateIn | String | The number of messages published by local and replicated publishers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgRateOut | String | The total number of messages delivered by local and replicated consumers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgThroughputIn | String | The size (in bytes) of messages published by local and replicated publishers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| MsgThroughputOut | String | The size (in bytes) of messages delivered by local and replicated consumers per second.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| NumberOfEntries | String | The total number of recorded messages.<br>Note: This field may return null, indicating that no valid |

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|---|---|---|
| | | values can be obtained. |
| Partitions | Integer | Partition count ≤ 0: there are no subpartitions in the topic.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ProducerCount | String | The number of producers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| TotalSize | String | The size of all stored messages in bytes.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| SubTopicSets | Array of PartitionsTopic | Subpartitions in a partitioned topic.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| TopicType | Integer | Topic type description:<br>0: General message;<br>1: Globally sequential message;<br>2: Partitionally sequential message;<br>3: Retry letter topic;<br>4: Dead letter topic;<br>5: Transaction message.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| EnvironmentId | String | Environment (namespace) name.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| TopicName | String | Topic name.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| Remark | String | Remarks (up to 128 characters).<br>Note: This field may return null, indicating that no valid values can be obtained. |
| CreateTime | Timestamp | Creation time.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| UpdateTime | Timestamp | Last modified.<br>Note: This field may return null, indicating that no valid values can be obtained. |

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| | | |
|---|---|---|
| ProducerLimit | String | The maximum number of producers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| ConsumerLimit | String | The maximum number of consumers.<br>Note: This field may return null, indicating that no valid values can be obtained. |
| PulsarTopicType | Integer | `0` : Non-persistent and non-partitioned<br>`1` : Non-persistent and partitioned<br>`2` : Persistent and non-partitioned<br>`3` : Persistent and partitioned<br>Note: This field may return null, indicating that no valid values can be obtained. |

## TopicRecord

Topic's key information

Used by actions: DeleteTopics.

| Name | Type | Required | Description |
|---|---|---|---|
| EnvironmentId | String | Yes | Environment (namespace) name. |
| TopicName | String | Yes | Topic name. |

## VpcBindRecord

VPC binding record

Used by actions: DescribeBindVpcs.

| Name | Type | Description |
|---|---|---|
| UniqueVpcId | String | Tenant VPC ID |
| UniqueSubnetId | String | Tenant VPC subnet ID |
| RouterId | String | Route ID |
| Ip | String | VPC ID |
| | | |

| | | |
|---|---|---|
| Port | Integer | VPC port |
| Remark | String | Remarks (up to 128 characters)<br>Note: this field may return null, indicating that no valid values can be obtained. |

## VpcConfig

VPC configuration information

Used by actions: DescribeRocketMQCluster, DescribeRocketMQVipInstanceDetail.

| Name | Type | Required | Description |
|---|---|---|---|
| VpcId | String | Yes | VPC ID |
| SubnetId | String | Yes | Subnet ID |

# Error Codes

Last updated：2024-11-27 16:57:13

## 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 |

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

| | |
|---|---|
| | 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 |
|---|---|
| FailedOperation.CallTrade | An exception occurred while calling the transaction service. |
| FailedOperation.CmqBackendError | CMQ backend error. |
| FailedOperation.CreateCluster | Failed to create the cluster. |
| FailedOperation.CreateEnvironment | Failed to create the environment. |
| FailedOperation.CreateEnvironmentRole | Failed to create the environment role. |
| FailedOperation.CreateNamespace | Failed to create the namespace. |
| FailedOperation.CreateProducerError | An error occurred while creating the producer. |
| FailedOperation.CreatePulsarClientError | An error occurred while creating the TDMQ client. |
| FailedOperation.CreateRole | Failed to create the role. |

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| | |
|---|---|
| FailedOperation.CreateSecretKey | Failed to create the key. |
| FailedOperation.CreateSubscription | Failed to create the subscription. |
| FailedOperation.CreateTopic | Failed to create the topic. |
| FailedOperation.DeleteCluster | Failed to delete the cluster. |
| FailedOperation.DeleteEnvironmentRoles | Failed to delete the environment role. |
| FailedOperation.DeleteEnvironments | Failed to delete the environment. |
| FailedOperation.DeleteNamespace | Failed to delete the namespace. |
| FailedOperation.DeleteRoles | Failed to delete the role. |
| FailedOperation.DeleteSubscriptions | Failed to delete the subscription. |
| FailedOperation.DeleteTopics | Failed to delete the topic. |
| FailedOperation.DescribeSubscription | Failed to query the subscription data. |
| FailedOperation.GetEnvironmentAttributesFailed | Failed to get the environment attributes. |
| FailedOperation.GetTopicPartitionsFailed | Failed to get the number of topic partitions. |
| FailedOperation.InstanceNotReady | This instance is not ready. Please try again later. |
| FailedOperation.MaxMessageSizeError | The message size exceeds the upper limit of 1 MB. |
| FailedOperation.MessageIDError | The uploaded `msgID` is incorrect. |
| FailedOperation.NamespaceInUse | You must clear the associated namespace before proceeding. |
| FailedOperation.ReceiveError | An error occurred while receiving the message. |
| FailedOperation.ReceiveTimeout | Message receiving timed out. Please try again. |
| FailedOperation.ResetMsgSubOffsetByTimestampFailed | Failed to configure message rewind. |
| FailedOperation.RoleInUse | You must clear the associated role data before proceeding. |
| FailedOperation.SaveSecretKey | Failed to save the key. |
| FailedOperation.SendMessageTimeoutError | Message sending timed out. |
| FailedOperation.SendMsgFailed | Failed to send the message. |

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| FailedOperation.SetRetentionPolicy | Failed to set the message retention policy. |
| FailedOperation.SetTTL | Failed to configure the message TTL. |
| FailedOperation.TopicInUse | You must clear the associated topic data before proceeding. |
| FailedOperation.TopicTypeError | Please use a partition topic. |
| FailedOperation.UpdateEnvironment | Failed to update the environment. |
| FailedOperation.UpdateEnvironmentRole | Failed to update the environment role. |
| FailedOperation.UpdateRole | Failed to update the role. |
| FailedOperation.UpdateTopic | Failed to update the topic. |
| FailedOperation.VpcInUse | You must clear the associated VPC routing data before proceeding. |
| InternalError.BrokerService | The broker service is exceptional. |
| InternalError.GetAttributesFailed | Failed to get attributes. |
| InternalError.IllegalMessage | Internal error. |
| InternalError.Retry | You can try again. |
| InternalError.SystemError | System error. |
| InvalidParameter.InvalidAdminUrl | Invalid management API address |
| InvalidParameter.Partition | Incorrect partition count. |
| InvalidParameter.TenantNotFound | The uploaded tenant name is incorrect. |
| InvalidParameter.TokenNotFound | The correct token was not obtained. |
| InvalidParameterValue.AtLeastOne | |
| InvalidParameterValue.ClusterNameDuplication | The cluster name already exists. |
| InvalidParameterValue.InvalidParams | The parameter value is out of the value range. |
| InvalidParameterValue.NeedMoreParams | A required parameter is missing. |
| InvalidParameterValue.TTL | The message TTL value is invalid. |
| InvalidParameterValue.TopicNotFound | The uploaded topic name is incorrect. |

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|---|---|
| LimitExceeded.Clusters | The number of clusters under the instance exceeds the limit. |
| LimitExceeded.Environments | The number of environments under the instance exceeds the limit. |
| LimitExceeded.Namespaces | The number of namespaces under the instance exceeds the limit. |
| LimitExceeded.RetentionSize | The remaining quota has been exceeded. Please enter a valid value. |
| LimitExceeded.RetentionTime | The message retention period limit has been exceeded. Please enter a valid value. |
| LimitExceeded.Subscriptions | The number of subscribers under the instance exceeds the limit. |
| LimitExceeded.Topics | The number of topics under the instance exceeds the limit. |
| MissingParameter.NeedMoreParams | A required parameter is missing. |
| OperationDenied.ConsumerRunning | Messages in the subscribed topic are being consumed. |
| OperationDenied.DefaultEnvironment | Operations on the default environment are not allowed. |
| ResourceInUse.Cluster | The cluster already exists. |
| ResourceInUse.EnvironmentRole | The environment role already exists. |
| ResourceInUse.Namespace | A namespace with the same name already exists. |
| ResourceInUse.Queue | The queue already exists. |
| ResourceInUse.Role | The role already exists. |
| ResourceInUse.Subscription | A subscription with the same name already exists. |
| ResourceInUse.Topic | A topic with the same name already exists. |
| ResourceNotFound.BrokerCluster | The service cluster does not exist. |
| ResourceNotFound.Cluster | The cluster does not exist. |
| ResourceNotFound.Environment | The environment does not exist. |
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|---|---|
| ResourceNotFound.EnvironmentRole | The environment role does not exist. |
| ResourceNotFound.Instance | The instance doesn't exist. |
| ResourceNotFound.Namespace | The namespace does not exist. |
| ResourceNotFound.Role | The role does not exist. |
| ResourceNotFound.Subscription | The subscription does not exist. |
| ResourceNotFound.Topic | The topic does not exist. |
| ResourceUnavailable.CreateFailed | Assignment exception. |
| ResourceUnavailable.FundRequired | You must top up before proceeding. |
| ResourceUnavailable.SystemUpgrade | The system is being upgraded. |
| ResourcesSoldOut | The resources have been sold out. |
| UnsupportedOperation.InstanceDowngrade | The instance does not support configuration downgrade. |

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