TDMQ for Apache Pulsar

API Documentation

Product Documentation

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API Documentation History

Last updated：2023-08-09 14:43:17

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.

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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:

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- 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

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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

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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

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- 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

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- 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.

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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

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- CreateRocketMQCluster
- CreateRocketMQGroup
- CreateRocketMQNamespace
- CreateRocketMQTopic
- CreateRole
- CreateSubscription
- CreateTopic
- DeleteCluster
- DeleteCmqQueue
- DeleteCmqSubscribe
- DeleteCmqTopic
- DeleteEnvironmentRoles
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- DeleteRocketMQGroup
- DeleteRocketMQNamespace
- DeleteRocketMQTopic
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- DescribeBindClusters
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- DescribeEnvironmentRoles
- DescribeEnvironments
- DescribeProducers
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- DescribeRocketMQClusters
- DescribeRocketMQGroups
- DescribeRocketMQNamespaces

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- ModifyRocketMQNamespace
- ModifyRocketMQTopic
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- PublishCmqMsg
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- ResetMsgSubOffsetByTimestamp
- RewindCmqQueue
- SendBatchMessages
- SendCmqMsg
- SendMessages
- SendMsg
- UnbindCmqDeadLetter

New data structures:

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

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- 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

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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

Message APIs

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

CMQ Message APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ClearCmqQueue	Clears the messages in the CMQ message queue.	20

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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

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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

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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
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	20

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	groups	
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
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

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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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Making API Requests
Request Structure

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1. Service Address

The API supports access from either a nearby region (at tdmq.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.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
North America (Toronto)	tdmq.na-toronto.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

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Only UTF-8 encoding is used.

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Common Params

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

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

Common parameters for Signature Algorithm v3

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

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

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

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

The following example shows you how to structure an HTTP POST (application/json) request:

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

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

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

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

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

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

--58731222010402
Content-Disposition: form-data; name="Offset"

0
--58731222010402
Content-Disposition: form-data; name="Limit"

10
--58731222010402--
```

Common parameters for Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter `Action` in the input parameters in related API documentation. For example, the API for querying the CVM instance list is `DescribeInstances`.
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter `Region` in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.

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Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with `Timestamp` to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter `Version` in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&Sign
atureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb45
9b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId
=AKIDEXAMPLE

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

Example of an HTTP POST request structure:

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

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

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

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Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the Tencent Cloud Console.
2. Go to the TencentCloud API Key console page.
3. On the TencentCloud API Key page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including Python, Java, PHP, Go, NodeJS and .NET. In addition, it provides API Explorer which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats,

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Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKIDz8krbsJ5yKBZQpn74WFkmLPx3******` and `Gu5t9xGARNpq86cd98joQYCN3*******`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3******
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the sever will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is `content-type;host`
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter`

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

According to the rules above, the `CanonicalRequest` string obtained in the example is as follows:

```
POST
/

content-type:application/json; charset=utf-8
host:cvm.tencentcloudapi.com

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

```
StringToSign =
Algorithm + \n +
RequestTimestamp + \n +
CredentialScope + \n +
HashedCanonicalRequest
```

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

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

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

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

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*******"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., `Gu5t9xGARNpq86cd98joQYCN3*******` .
Date	The Date field information in `Credential` , such as `2019-02-25` in this example.

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Service	Value in the Service field in `Credential`, such as `cvm` in this example.

2. Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =
Algorithm + ' ' +
'Credential=' + SecretId + '/' + CredentialScope + ', ' +
'SignedHeaders=' + SignedHeaders + ', ' +
'Signature=' + Signature
```

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

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

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

The following example shows a finished authorization header:

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

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```
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

5. Signature Demo

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

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

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

The final output URL might be: https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%3D&Timestamp=1465185768&Version=2017-03-12.

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

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Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPITC3Demo {
private final static Charset UTF8 = StandardCharsets.UTF_8;
private final static String SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
private final static String CT_JSON = "application/json; charset=utf-8";

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

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

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

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

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

String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canoni
calQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ************* Step 2: Concatenate the string to sign *************
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope +
"\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ************* Step 3: Calculate the signature *************
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, string
ToSign)).toLowerCase();
System.out.println(signature);

// ************* Step 4: Concatenate the Authorization *************
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);

TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
```

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

Python

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

# Key Parameters
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"

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

# ************* Step 1: Concatenate the CanonicalRequest string *************
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
```

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```
canonical_querystring + "\n" +
canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)

# ************* Step 2: Concatenate the string to sign *************
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexd
igest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)


# ************* Step 3: Calculate the Signature *************
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha2
56).hexdigest()
print(signature)

# ************* Step 4: Concatenate the Authorization *************
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)

print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + host + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + "'")
```

Golang

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```go
package main

import (
"crypto/hmac"
"crypto/sha256"
"encoding/hex"
"fmt"
"time"
)

func sha256hex(s string) string {
b := sha256.Sum256([]byte(s))
return hex.EncodeToString(b[:])
}

func hmacsha256(s, key string) string {
hashed := hmac.New(sha256.New, []byte(key))
hashed.Write([]byte(s))
return string(hashed.Sum(nil))
}

func main() {
secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
host := "cvm.tencentcloudapi.com"
algorithm := "TC3-HMAC-SHA256"
service := "cvm"
version := "2017-03-12"
action := "DescribeInstances"
region := "ap-guangzhou"
//var timestamp int64 = time.Now().Unix()
var timestamp int64 = 1551113065

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

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

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

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

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

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

PHP

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```php
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod."\n"
.$canonicalUri."\n"
.$canonicalQueryString."\n"
.$canonicalHeaders."\n"
.$signedHeaders."\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date."/".$service."/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);
$stringToSign = $algorithm."\n"
.$timestamp."\n"
.$credentialScope."\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3".$secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;
```

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

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

Ruby

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

# Key Parameters
secret_id = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*******'

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

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

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

puts canonical_request

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

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

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

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

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

DotNet

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

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

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

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```
dpointRounding.AwayFromZero) / 1000;
// ************* Step 1: Concatenate the CanonicalRequest string *************
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----------------------------------");

// ************ Step 2: Concatenate the string to sign *************
string credentialScope = datestr + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + cre
dentialScope + "\n" + hashedCanonicalRequest;
Console.WriteLine(stringToSign);
Console.WriteLine("-----------------------------------");

// ************* Step 3: Calculate the signature *************
byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_requ
est"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
Sign));
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----------------------------------");

// ************* Step 4: Concatenate the Authorization *************
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);
```

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

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}
public static void Main(string[] args)
{
// SecretID and SecretKey
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";

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

// The timestamp `2019-02-26 00:44:25` used here is only for reference. In a proj
ect, use the following parameter:
// DateTime date = DateTime.UtcNow;
// Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds
(1551113065);
string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u5
47d\\u540d\"], \"Name\": \"instance-name\"}]}";

Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service
, endpoint, region, action, version, date, requestPayload);

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

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NodeJS

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

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

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

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

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

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

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

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

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

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

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

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

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

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C++

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

using namespace std;

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

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

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

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

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

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

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

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

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```
return output;
}

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

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

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

// ************* Step 2: Concatenate the string to sign *************
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScop
e + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----------------------" << endl;

// ************* Step 3: Calculate the signature ***************
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
```

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

// ************* Step 4: Concatenate the Authorization *************
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "------------------------" << endl;

string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: " + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\"" + "\n"
+ " -H \"Host: " + host + "\n"
+ " -H \"X-TC-Action: " + action + "\n"
+ " -H \"X-TC-Timestamp: " + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: " + version + "\n"
+ " -H \"X-TC-Region: " + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
return 0;
};
```

Signature Failure

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

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.
AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

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Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.
The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the TencentCloud API Key page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the TencentCloud API Key page to apply for security credentials.
Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the Tencent Cloud Console.
2. Go to the TencentCloud API Key page.
3. On the API Key Management page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

2. Generating a Signature

With the SecretId and SecretKey, a signature can be generated. The following describes how to generate a signature:

Assume that the SecretId and SecretKey are:

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

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

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

Parameter name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	`AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
InstanceIds.0	ID of the instance to query	ins-09dx96dg
Offset	Offset	0
Limit	Allowed maximum output	20
Version	API version number	2017-03-12

2.1. Sorting Parameters

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

```
{
'Action' : 'DescribeInstances',
'InstanceIds.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******',
'Timestamp' : 1465185768,
'Version': '2017-03-12',
}
```

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Timestamp=1465
185768&Version=2017-03-12
```

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*******&Timestamp=1465185768&Version=2017-03-12
```

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is zmmjn35mikh6pM3V7sUEuX4wyYM=, the final signature string request parameter (Signature) is zmmjn35mikh6pM3V7sUEuX4wyYM%3D, which will be used to generate the final request URL.

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%3D&Timestamp=1465185768&Version=2017-03-12` .

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

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Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;
public class TencentCloudAPIDemo {
private final static String CHARSET = "UTF-8";
public static String sign(String s, String key, String method) throws Exception {
Mac mac = Mac.getInstance(method);
SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlg
orithm());
mac.init(secretKeySpec);
byte[] hash = mac.doFinal(s.getBytes(CHARSET));
return DatatypeConverter.printBase64Binary(hash);
}
public static String getStringToSign(TreeMap<String, Object> params) {
StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
// When signing, the parameters need to be sorted in lexicographical order. TreeM
ap is used here to guarantee the correct order.
for (String k : params.keySet()) {
s2s.append(k).append("=").append(params.get(k).toString()).append("&");
}
return s2s.toString().substring(0, s2s.length() - 1);
}
public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEnc
odingException {
StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
// There is no requirement for the order of the parameters in the actual request
URL.
for (String k : params.keySet()) {
// 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("&");
```

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```
}
return url.toString().substring(0, url.length() - 1);
}
public static void main(String[] args) throws Exception {
TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enable
s automatic sorting
// A random number should be used when actually calling, for example: params.put
("Nonce", new Random().nextInt(java.lang.Integer.MAX_VALUE));
params.put("Nonce", 11886); // Common parameter
// The current time of the system should be used when actually calling, for examp
le: params.put("Timestamp", System.currentTimeMillis() / 1000);
params.put("Timestamp", 1465185768); // Common parameter
params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"); // Common paramet
er
params.put("Action", "DescribeInstances"); // Common parameter
params.put("Version", "2017-03-12"); // Common parameter
params.put("Region", "ap-guangzhou"); // Common parameter
params.put("Limit", 20); // Business parameter
params.put("Offset", 0); // Business parameter
params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3*
******", "HmacSHA1")); // Common parameter
System.out.println(getUrl(params));
}
}
```

Python

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

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time
import requests
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
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)
```

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

Golang

```
package main
import (
"bytes"
"crypto/hmac"
"crypto/sha1"
"encoding/base64"
"fmt"
"sort"
)
func main() {
secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
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
```

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```
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")
// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
keys = append(keys, k)
}
sort.Strings(keys)
for i := range keys {
k := keys[i]
buf.WriteString(k)
buf.WriteString("=")
buf.WriteString(params[k])
buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)
hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())
fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

PHP

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

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```
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
'Action' => 'DescribeInstances',
'InstanceIds.0' => 'ins-09dx96dg',
'Limit' => 20,
'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
```

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```
# 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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
```

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```
// 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){
```

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```
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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"
const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)
let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;
strParam = sort_params(params)
const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----------------------")
params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
```

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

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Responses

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Response for Successful Requests

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

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

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

Response for Failed Requests

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

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please ensure your s
ignature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

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- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	The key does not exist.
AuthFailure.SignatureExpire	Signature expired.
AuthFailure.SignatureFailure	Signature error.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request does not have CAM authorization.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.

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NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTPS request method error. Only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

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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 Note: This field may return null, indicating that no valid values can be obtained.
ClusterSpecInfo	PulsarProClusterSpecInfo	Cluster specification information 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": [
{
```

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```
"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

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation	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

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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": [
{
```

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```
"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

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6. Error Code

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

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DescribeRabbitMQVirtualHostList

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 TDMQ for RabbitMQ exclusive 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: DescribeRabbitMQVirtualHostList.
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	A default parameter that won't be used
Offset	No	Integer	Offset
Limit	No	Integer	The maximum number of entries per page

3. Output Parameters

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Parameter Name	Type	Description
TotalCount	Integer	The number of clusters
VirtualHostList	Array of RabbitMQPrivateVirtualHost	Cluster list 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 Obtaining the vhost list

Input Example

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

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

Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "xx",
"VirtualHostList": [
{
"VirtualHostName": "xx",
"Description": "xx"
}
]
}
}
```

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5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
ResourceNotFound.Cluster	The cluster does not exist.

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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. Currently, only the `nodeStatus` filter is supported.

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

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of clusters
NodeList	Array of RabbitMQPrivateNode	Cluster list 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
}
```

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Output Example

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

5. Developer Resources

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6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.

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ResourceNotFound.Cluster	The cluster does not exist.

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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",
```

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```
"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

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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

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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 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

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Command Line Interface

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6. Error Code

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

Error Code	Description
ResourceNotFound.Cluster	The cluster does not exist.

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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

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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

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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

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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.
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

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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.
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.

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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.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).

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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). Note: this field may return null, indicating that no valid values can be obtained.
NamespaceId	String	Namespace ID 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"
}
```

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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.

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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.

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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 Filter by namespace for exact query.

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			Type: String 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": {
```

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```
"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.

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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.

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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

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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"
```

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```
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
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.

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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

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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.

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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 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).

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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). 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,
```

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

Output Example

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

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description

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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.

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Filters.N	No	Array of Filter	* RoleName Filter by role name for exact query. Type: String 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",
```

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

5. Developer Resources

SDK

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

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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

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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 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

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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.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"
}
}
```

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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
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: 0: Non-persistent and non-partitioned topic; 1: Non-persistent and partitioned topic;

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

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```
"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": [
{
```

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```
"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

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6. Error Code

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

Error Code	Description
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` .

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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

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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.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.

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			0: General message; 1: Globally sequential message; 2: Partitionally sequential message; 3: Retry letter topic; 4: Dead letter topic.
ClusterId	No	String	Pulsar cluster ID
PulsarTopicType	No	Integer	Pulsar topic type. `0` : Non-persistent and non-partitioned `1` : Non-persistent and partitioned `2` : Persistent and non-partitioned `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). Note: this field may return null, indicating that no valid values can be obtained.
TopicType	Integer	0: General message; 1: Globally sequential message; 2: Partitionally sequential message; 3: Retry letter topic; 4: Dead letter topic. 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

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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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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure.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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Message APIs
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

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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. 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. 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. 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
```

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```
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

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- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.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

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			`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 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. 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

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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

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6. Error Code

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

Error Code	Description
FailedOperation.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

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Try it

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

2. Input Parameters

The following request parameter list only provides API 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

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			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. 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. 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 “###”. 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 “###”. 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
```

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```
<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

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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.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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AcknowledgeMessage

Last updated：2023-08-09 14:43:29

1. API Description

Domain name for API request: tdmq.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	No	String	Common Params. This parameter is not required for this API.
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

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			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. 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 Acknowledging message

Input Example

```
https://tdmq.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

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.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.
InvalidParameter.TokenNotFound	The correct token was not obtained.
InvalidParameterValue.TopicNotFound	The uploaded topic name is incorrect.

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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

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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 .NET
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
ResourceNotFound	The resource does not exist.

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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

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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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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
ResourceNotFound	The resource does not exist.

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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

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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 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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6. Error Code

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.

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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

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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 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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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation	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

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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 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

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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.

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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

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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 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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6. Error Code

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

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			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

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SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
ResourceNotFound.Topic	The topic does not exist.

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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: (1) BACKOFF_RETRY: backoff retry, which is to retry at a fixed interval, discard the message after a certain number of retries,

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			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.
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

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		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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6. Error Code

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.

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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

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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.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.

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		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. 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": {
```

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```
"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

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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.CmqBackendError	CMQ backend error.

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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

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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 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"
}
}
```

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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.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 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",
```

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


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.CmqBackendError	CMQ backend error.
ResourceNotFound.Topic	The topic does not exist.

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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.

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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. 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": {
```

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```
"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

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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.
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.

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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 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"
}
```

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```
],
"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"
}
}
```


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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.

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DescribeCmqDeadLetterSourceQueues

Last updated：2023-08-09 14:43:35

1. API Description

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

This API is used to enumerate the source queues of 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: DescribeCmqDeadLetterSourceQueues.
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.
DeadLetterQueueName	Yes	String	Dead letter queue name
Limit	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.
Offset	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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SourceQueueName	No	String	Filter by `SourceQueueName`

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible queues
QueueSet	Array of CmqDeadLetterSource	Source queues of dead letter queue
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enumerating the source queues of dead letter queue

Input Example

```
https://tdmq.tencentcloudapi.com/?Action=DescribeCmqDeadLetterSourceQueues
&DeadLetterQueueName=test123
&<Common request parameters>
```

Output Example

```
{
"Response": {
"QueueSet": [
{
"QueueName": "test",
"QueueId": "queue-kc7m75to"
}
],
"TotalCount": 1,
"RequestId": "83fce81a-7305-49b4-a154-983dd76204da"
}
}
```

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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

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

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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

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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 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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6. Error Code

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

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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 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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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation	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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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"
}
}
```

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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

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			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"
}
}
```

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5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	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

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			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.

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			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"
}
}
```

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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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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 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": {
```

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

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.
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

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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

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SDK

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- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for NodeJS
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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.
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

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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 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

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- Tencent Cloud SDK 3.0 for NodeJS
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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure.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

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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

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6. Error Code

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

Error Code	Description
AuthFailure.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)

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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 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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6. Error Code

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 Filter by role name for exact query.

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			Type: String 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"
},
```

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```
{
"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

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6. Error Code

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

Error Code	Description
AuthFailure.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

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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 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

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6. Error Code

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

Error Code	Description
AuthFailure.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 Note: this field may return null, indicating that no valid values can be obtained.
EnvironmentRoleSets	Array of EnvironmentRoleSet	Namespaces that are bound in batches 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"
]
}
],
```

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```
"RequestId": "abc"
}
}
```

5. Developer Resources

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
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.

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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)

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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 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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6. Error Code

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

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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

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- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
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. 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

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```
{
"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.

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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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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

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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.
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

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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 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 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

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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 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 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",
```

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

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 .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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ResourceNotFound	The resource does not exist.

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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": [
{
```

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```
"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.

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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"
}
}
```

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5. Developer Resources

SDK

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

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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
- 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).

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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 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

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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-`

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			`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 Note: This field may return null, indicating that no valid values can be obtained.
InstanceId	String	Instance ID 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.

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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 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 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 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

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation	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

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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": [
{
```

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```
"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
}
]
}
}
```


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SDK

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6. Error Code

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

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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

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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,
```

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```
"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

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6. Error Code

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

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Error Code	Description
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 Note: u200dThis field may return null, indicating that no valid values can be obtained.
ShowTopicName	String	Topic name displayed on the details page 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>

{
```

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```
"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": []
}
}
```

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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

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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	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

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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.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"
}
}
```

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5. Developer Resources

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6. Error Code

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

Error Code	Description
FailedOperation	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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6. Error Code

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` .

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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",
```

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```
"PartitionNum": 3,
"CreateTime": 1621308465000,
"UpdateTime": 1621308657000
}
]
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.IllegalMessage	Internal error.
InvalidParameter	Incorrect parameter.

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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

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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"
}
]
}
}
```

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5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	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

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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",
```

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```
"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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6. Error Code

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.

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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. 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",
```

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```
"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

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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	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

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ClusterConfig	RocketMQClusterConfig	Cluster configuration
ClusterStats	RocketMQClusterRecentStats	Recent cluster usage 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"
}
],
```

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```
"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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6. Error Code

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

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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 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

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation	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

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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 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

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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	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

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		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

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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.
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

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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

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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.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.

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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.

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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.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)

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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": {
```

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```
"RequestId": "0604a303-6d5f-40e6-9dfe-6c4ddd8fe2df"
}
}
```

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.
InternalError	Internal error.
InternalError.IllegalMessage	Internal error.
InvalidParameter	Incorrect parameter.
LimitExceeded	The quota limit is exceeded.
ResourceInUse	The resource is in use.

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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

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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

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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.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. Valid values: `rocket-vip-basic-1` (Basic), `rocket-vip-basic-2` (Standard),

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			`rocket-vip-basic-3` (Advanced I), `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 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

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

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.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.

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UnsupportedOperation.InstanceDowngrade	The instance does not support configuration downgrade.

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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

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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": [
{
```

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```
"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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Command Line Interface

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6. Error Code

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

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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": "",
```

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```
"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": ""
},
{
```


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```
"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

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Command Line Interface

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6. Error Code

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

Error Code	Description
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

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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.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.

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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"
}
```

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Output Example

```
{
"Response": {
"Result": true,
"RequestId": "15288803-dadb-4499-9b5b-ff2f631ca68e"
}
}
```

5. Developer Resources

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	CAM authentication failed.
FailedOperation	Operation failed.
FailedOperation.CreateSubscription	Failed to create the subscription.

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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. 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 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` .

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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. 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": [
{
```

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```
"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

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Command Line Interface

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6. Error Code

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

Error Code	Description
ResourceNotFound.Topic	The topic does not exist.

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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

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Parameter Name	Type	Description
MsgRateIn	Float	Production rate (messages/sec). Note: this field may return `null` , indicating that no valid values can be obtained.
MsgThroughputIn	Float	Production rate (byte/sec). Note: this field may return `null` , indicating that no valid values can be obtained.
PublisherCount	Integer	The number of producers. Note: this field may return `null` , indicating that no valid values can be obtained.
StorageSize	Integer	Message storage size in bytes. 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,
```

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```
"PublisherCount": 0,
"StorageSize": 0,
"RequestId": "xx",
"MsgThroughputIn": 0.0
}
}
```

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
ResourceNotFound.Topic	The topic does not exist.

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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

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			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

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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.

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Data Types

Last updated：2023-08-09 14:43:37

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 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 Note: this field may return null, indicating that no valid values can be obtained.
PublicEndPoint	String	Public network access point Note: this field may return null, indicating that no valid values can be obtained.
VpcEndPoint	String	VPC access point Note: this field may return null, indicating that no valid values can be obtained.
NamespaceNum	Integer	Number of namespaces Note: this field may return null, indicating that no valid values can be obtained.
UsedStorageBudget	Integer	Limit of used storage in MB Note: this field may return null, indicating that no valid values can be obtained.
MaxPublishRateInMessages	Integer	Maximum message production rate in messages Note: this field may return null, indicating that no valid values can be obtained.
MaxDispatchRateInMessages	Integer	Maximum message push rate in messages Note: this field may return null, indicating that no valid values can be obtained.
MaxPublishRateInBytes	Integer	Maximum message production rate in bytes Note: this field may return null, indicating that no valid values can be obtained.
MaxDispatchRateInBytes	Integer	Maximum message push rate in bytes Note: this field may return null, indicating that no valid values can be obtained.
TopicNum	Integer	Number of created topics 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 Note: this field may return null, indicating that no valid values can be obtained.
Tags	Array of Tag	Tag Note: this field may return null, indicating that no valid values can be obtained.
PayMode	Integer	Billing mode: `0` : Pay-as-you-go `1` : Monthly subscription 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. Note: this field may return null, indicating that no valid values can be obtained.
Policy	Integer	Dead letter queue policy. 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) Note: this field may return null, indicating that no valid values can be obtained.
MaxReceiveCount	Integer	Maximum number of receipts. Note: this field may return null, indicating that no valid values can be obtained.

CmqDeadLetterSource

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Cmq DeadLetterSource

Used by actions: DescribeCmqDeadLetterSourceQueues, DescribeCmqQueueDetail, DescribeCmqQueues.

Name	Type	Description
QueueId	String	Message queue ID. Note: this field may return null, indicating that no valid values can be obtained.
QueueName	String	Message queue name. 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. Note: this field may return null, indicating that no valid values can be obtained.
Bps	Integer	Bandwidth limit. Note: this field may return null, indicating that no valid values can be obtained.
MaxDelaySeconds	Integer	Maximum retention period for inflight messages. 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). 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. 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. 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. 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. 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. 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. 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. Note: this field may return null, indicating that no valid values can be obtained.

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DelayMsgNum	Integer	Number of delayed messages. 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. Note: this field may return null, indicating that no valid values can be obtained.
MinMsgTime	Integer	Minimum unconsumed time of message in seconds. 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. Note: this field may return null, indicating that no valid values can be obtained.
DeadLetterSource	Array of CmqDeadLetterSource	Dead letter queue. Note: this field may return null, indicating that no valid values can be obtained.
DeadLetterPolicy	CmqDeadLetterPolicy	Dead letter queue policy. Note: this field may return null, indicating that no valid values can be obtained.
TransactionPolicy	CmqTransactionPolicy	Transaction message policy. Note: this field may return null, indicating that no valid values can be obtained.
CreateUin	Integer	Creator `Uin` . Note: this field may return null, indicating that no valid values can be obtained.
Tags	Array of Tag	Associated tag. Note: this field may return null, indicating that no valid values can be obtained.
Trace	Boolean	Message trace. true: enabled; false: not enabled Note: this field may return null, indicating that no valid values can be obtained.
TenantId	String	Tenant ID Note: this field may return null, indicating that no valid values can be obtained.

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NamespaceName	String	Namespace name 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 Note: this field may return `null` , indicating that no valid values can be obtained.
MaxUnackedMsgNum	Integer	The maximum number of unacknowledged messages. Note: this field may return `null` , indicating that no valid values can be obtained.
MaxMsgBacklogSize	Integer	Maximum size of heaped messages in bytes. 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. 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. 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. Note: this field may return null, indicating that no valid values can be obtained.
TopicOwner	Integer	Subscription owner `APPID` . Note: this field may return null, indicating that no valid values can be obtained.

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MsgCount	Integer	Number of messages to be delivered in the subscription. 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. 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. 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. 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. 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: If `filterType` is 1, `filterTag` will be used for filtering. If `filterType` is 2, `bindingKey` will be used for filtering. 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. 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: (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:

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		EXPONENTIAL_DECAY_RETRY. 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`. 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. Note: this field may return null, indicating that no valid values can be obtained.
TopicName	String	Yes	Topic name. 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. 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. Note: this field may return null, indicating that no valid values can be obtained.
Qps	Integer	Yes	Number of messages published per second. 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: If `filterType` is 1, `FilterTag` will be used for filtering. If `filterType` is 2, `BindingKey` will be used for filtering. 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. 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. 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). 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. Note: this field may return null, indicating that no valid values can be obtained.
Tags	Array of Tag	Yes	Associated tag. Note: this field may return null, indicating that no valid values can be obtained.
Trace	Boolean	Yes	Message trace. true: enabled; false: not enabled Note: this field may return null, indicating that no valid values can be obtained.
TenantId	String	Yes	Tenant ID Note: this field may return null, indicating that no valid values can be obtained.
NamespaceName	String	Yes	Namespace name 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:

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			deleted; 4. isolated; 5. creation failed; 6: deletion failed Note: This field may return `null` , indicating that no valid values can be obtained.
BrokerType	Integer	Yes	Valid values: `0` (Pulsar), `1` (RocketMQ). 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. Note: this field may return null, indicating that no valid values can be obtained.
MaxQueryCount	Integer	Maximum number of queries. 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. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerAddr	String	Consumer address. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerName	String	Consumer name. Note: This field may return null, indicating that no valid values can be obtained.
ClientVersion	String	Consumer version. 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. Note: This field may return null, indicating that no valid values can be obtained.
NumberOfEntries	Integer	The number of messages. Note: This field may return null, indicating that no valid values can be obtained.
MsgBacklog	Integer	The number of heaped messages. 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. 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. 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. Note: This field may return null, indicating that no valid values can be obtained.
RetentionPolicy	RetentionPolicy	Message retention policy. Note: This field may return null, indicating that no valid values can be obtained.
AutoSubscriptionCreation	Boolean	Whether to enable "Auto-Create Subscription" 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

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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 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. 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

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			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. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerCount	String	The number of consumers. Note: This field may return null, indicating that no valid values can be obtained.
LastConfirmedEntry	String	The total number of recorded messages. Note: This field may return null, indicating that no valid values can

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		be obtained.
LastLedgerCreatedTimestamp	String	Time when the last ledger was created. 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. 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. 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. 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. Note: This field may return null, indicating that no valid values can be obtained.
NumberOfEntries	String	The total number of recorded messages. Note: This field may return null, indicating that no valid values can be obtained.
Partitions	Integer	Subpartition ID. Note: This field may return null, indicating that no valid values can be obtained.
ProducerCount	String	The number of producers. Note: This field may return null, indicating that no valid values can be obtained.
TotalSize	String	Total size of all stored messages in bytes. Note: This field may return null, indicating that no valid values can be obtained.
TopicType	Integer	Topic type description. 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. Note: this field may return `null` , indicating that no valid values can be obtained.
ProducerName	String	Producer name. Note: this field may return `null` , indicating that no valid values can be obtained.
Address	String	Producer address. Note: this field may return `null` , indicating that no valid values can be obtained.
ClientVersion	String	Client version. Note: this field may return `null` , indicating that no valid values can be obtained.
MsgRateIn	Float	Message production rate (message/sec). Note: this field may return `null` , indicating that no valid values can be obtained.
MsgThroughputIn	Float	Message production throughput rate (byte/sec). Note: this field may return `null` , indicating that no valid values can be obtained.
AverageMsgSize	Float	Average message size in bytes. Note: this field may return `null` , indicating that no valid values can be obtained.
ConnectedSince	String	Connection time. 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. 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. 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. 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: `0` : Supporting network access point `1` : VPC access point `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 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 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 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

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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 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 Note: This field may return null, indicating that no valid values can be obtained.
VpcId	String	VPC ID Note: This field may return null, indicating that no valid values can be obtained.
SubnetId	String	Subnet ID 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 Note: This field may return null, indicating that no valid value can be obtained.
NodeStatus	String	Node status

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		Note: This field may return null, indicating that no valid value can be obtained.
CPUUsage	String	CPU utilization Note: This field may return null, indicating that no valid values can be obtained.
Memory	Integer	Memory usage in MB Note: This field may return null, indicating that no valid values can be obtained.
DiskUsage	String	Disk utilization Note: This field may return null, indicating that no valid values can be obtained.
ProcessNumber	Integer	The number of RabbitMQ Erlang processes 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 Note: u200dThis field may return null, indicating that no valid values can be obtained.
Description	String	Vhost description 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.

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Description	String	User description 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. 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 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

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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 Note: This field may return null, indicating that no valid value can be obtained.
SpecName	String	Instance specification ID
ExceptionInformation	String	Cluster exception 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). 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 Note: u200dThis field may return null, indicating that no valid values can be obtained.
Tags	Array of String	Vhost tag Note: u200dThis field may return null, indicating that no valid values can be obtained.
CreateTime	String	Creation time Note: u200dThis field may return null, indicating that no valid values can be obtained.

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ModifyTime	String	Modification time Note: u200dThis field may return null, indicating that no valid values can be obtained.
VirtualHostStatistics	RabbitMQVirtualHostStatistics	Statistics of vhost overview 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 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.

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Status	Integer	Cluster status. 0: Creating; 1: Normal; 2: Terminating; 3: Deleted; 4. Isolated; 5. Creation failed; 6: Deletion failed. 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 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. Note: This field may return `null` , indicating that no valid values can be obtained.
Vpcs	Array of VpcConfig	VPC Information Note: This field may return null, indicating that no valid values can be obtained.
IsVip	Boolean	Whether it is an exclusive instance Note: This field may return null, indicating that no valid values can be obtained.
RocketMQFlag	Boolean	TDMQ for RocketMQ cluster type flag Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	Billing status (`1` : Normal; `2` : Service suspended; `3` :

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		Terminated) Note: This field may return null, indicating that no valid values can be obtained.
IsolateTime	Integer	Service suspension time in milliseconds Note: This field may return null, indicating that no valid values can be obtained.
HttpPublicEndpoint	String	HTTP-based public network access address Note: This field may return null, indicating that no valid values can be obtained.
HttpVpcEndpoint	String	HTTP-based VPC access address Note: This field may return null, indicating that no valid values can be obtained.
InternalEndpoint	String	Internal TCP access address Note: u200dThis field may return null, indicating that no valid values can be obtained.
HttpInternalEndpoint	String	Internal HTTP access address 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

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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. 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. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerType	String	Consumer type. Enumerated values: `ACTIVELY` or `PASSIVELY`. 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 Note: This field may return null, indicating that no valid values can be obtained.
RetryMaxTimes	Integer	The number of retries Note: This field may return null, indicating that no valid values can be obtained.

RocketMQInstanceConfig

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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 Note: u200dThis field may return null, indicating that no valid values can be obtained.

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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. Note: This field may return null, indicating that no valid values can be obtained.
PublicEndpoint	String	Public network access point address. Note: This field may return null, indicating that no valid values can be obtained.
VpcEndpoint	String	VPC access point address. Note: This field may return null, indicating that no valid values can be obtained.
InternalEndpoint	String	Internal access point address 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

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Remark	String	Description. 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 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 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 Note: u200dThis field may return null, indicating that no valid values can be obtained.
MinRetention	Integer	The minimum message retention period in hours Note: u200dThis field may return null, indicating that no valid values can be obtained.
Retention	Integer	Instance message retention period in hours 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. Note: This field may return `null` , indicating that no valid values can be obtained.
ConsumerAddr	String	Consumer address. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerCount	String	The number of consumers. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerName	String	Consumer name. Note: This field may return null, indicating that no valid values can be obtained.
MsgBacklog	String	The number of heaped messages. 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. 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. 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. Note: This field may return null, indicating that no valid values can be obtained.
SubscriptionName	String	Subscription name. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerSets	Array of Consumer	Set of consumers. Note: This field may return null, indicating that no valid values can be obtained.
IsOnline	Boolean	Whether the consumer is online. Note: This field may return null, indicating that no valid values can be obtained.
ConsumersScheduleSets	Array of ConsumersSchedule	Set of consumption progress information. Note: This field may return null, indicating that no valid values can be obtained.
Remark	String	Remarks. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Timestamp	Creation time. Note: This field may return null, indicating that no valid values can be obtained.
UpdateTime	Timestamp	Last modified. 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

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		`NULL` : Unknown. 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. Note: This field may return null, indicating that no valid values can be obtained.
MaxUnackedMsgNum	Integer	The maximum number of unacknowledged messages. 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. Note: This field may return `null` , indicating that no valid values can be obtained.
ConsumerCount	String	The number of consumers. Note: This field may return null, indicating that no valid values can be obtained.
LastConfirmedEntry	String	The total number of recorded messages. Note: This field may return null, indicating that no valid values can be obtained.
LastLedgerCreatedTimestamp	String	Time when the last ledger was created. 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. 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. 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. 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. Note: This field may return null, indicating that no valid values can be obtained.
NumberOfEntries	String	The total number of recorded messages. 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. Note: This field may return null, indicating that no valid values can be obtained.
ProducerCount	String	The number of producers. Note: This field may return null, indicating that no valid values can be obtained.
TotalSize	String	The size of all stored messages in bytes. Note: This field may return null, indicating that no valid values can be obtained.
SubTopicSets	Array of PartitionsTopic	Subpartitions in a partitioned topic. Note: This field may return null, indicating that no valid values can be obtained.
TopicType	Integer	Topic type description: 0: General message; 1: Globally sequential message; 2: Partitionally sequential message; 3: Retry letter topic; 4: Dead letter topic; 5: Transaction message. Note: This field may return null, indicating that no valid values can be obtained.
EnvironmentId	String	Environment (namespace) name. Note: This field may return null, indicating that no valid values can be obtained.
TopicName	String	Topic name. Note: This field may return null, indicating that no valid values can be obtained.
Remark	String	Remarks (up to 128 characters). Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Timestamp	Creation time. Note: This field may return null, indicating that no valid values can be obtained.
UpdateTime	Timestamp	Last modified. 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. Note: This field may return null, indicating that no valid values can be obtained.
ConsumerLimit	String	The maximum number of consumers. Note: This field may return null, indicating that no valid values can be obtained.
PulsarTopicType	Integer	`0` : Non-persistent and non-partitioned `1` : Non-persistent and partitioned `2` : Persistent and non-partitioned `3` : Persistent and partitioned 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

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Port	Integer	VPC port
Remark	String	Remarks (up to 128 characters) 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

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Error Codes

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Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please check your si
gnature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	`Authorization` in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

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	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

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	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
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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