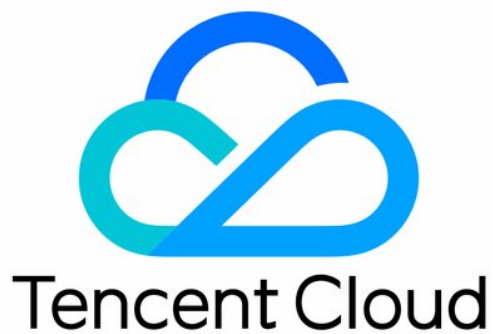


TDMQ for CKafka

API Documentation

Product Documentation



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API Documentation

History

Last updated : 2024-11-27 17:59:00

Release 39

Release time: 2023-07-05 15:54:31

Release updates:

Improvement to existing documentation.

New APIs:

- [CreatePostPaidInstance](#)
- [DescribeTaskStatus](#)

Modified APIs:

- [CreateInstancePost](#)
 - New input parameters: InstanceType, KafkaVersion, SpecificationsType, DiskType, DiskSize, Partition, TopicNum, MultiZoneFlag, ZoneIds, InstanceNum, PublicNetworkMonthly
- [DescribeRoute](#)
 - New input parameters: RouteId

New data structures:

- [CreateInstancePostData](#)
- [CreateInstancePostResp](#)
- [DealInstanceDTO](#)
- [RouteDTO](#)
- [TaskStatusResponse](#)

Modified data structures:

- [CreateInstancePreData](#)
 - New members: DealNameInstanceIdMapping
- [CreateInstancePreResp](#)
 - **Modified members:** DeleteRouteTimestamp
 - **Deprecate members:** DeleteRouteTimestamp

- [OperateResponseData](#)
 - New members:RouteDTO

Release 38

Release time: 2023-04-27 15:18:32

Release updates:

Improvement to existing documentation.

Modified data structures:

- [DatahubTopicResp](#)
 - New members:TopicId

Release 37

Release time: 2023-04-19 10:38:43

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateAclRule](#)
- [DescribeAclRule](#)
- [ModifyAclRule](#)
- [ModifyDatahubTopic](#)

New data structures:

- [AclRuleResp](#)

Release 36

Release time: 2023-03-29 17:22:56

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateDatahubTopic](#)

New data structures:

- [DatahubTopicResp](#)

Release 35

Release time: 2023-03-22 17:04:45

Release updates:

Improvement to existing documentation.

Modified data structures:

- [TopicAttributesResponse](#)
 - New members:ReplicaNum
- [TopicDetail](#)
 - New members:Tags

Release 34

Release time: 2023-03-09 16:30:56

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeDatahubTopic](#)
- [DescribeDatahubTopics](#)

Modified APIs:

- [DescribeInstancesDetail](#)
 - New input parameters:TagList

New data structures:

- [DatahubTopicDTO](#)

- [DescribeDatahubTopicResp](#)
- [DescribeDatahubTopicsResp](#)

Release 33

Release time: 2023-02-20 16:28:40

Release updates:

Improvement to existing documentation.

Modified data structures:

- [ConsumerRecord](#)
 - New members:Headers

Release 32

Release time: 2023-02-15 17:52:11

Release updates:

Improvement to existing documentation.

Modified data structures:

- [GroupResponse](#)
 - New members:GroupCountQuota

Release 31

Release time: 2023-02-03 10:28:42

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeTopicProduceConnection](#)

New data structures:

- [DescribeConnectInfoResultDTO](#)

Release 30

Release time: 2023-01-06 16:21:24

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateInstancePost](#)
- [InquireCkafkaPrice](#)

New data structures:

- [InquireCkafkaPriceResp](#)
- [InquiryBasePrice](#)
- [InquiryDetailPrice](#)
- [InquiryDiskParam](#)
- [InquiryPrice](#)
- [InquiryPublicNetworkParam](#)
- [InstanceChargeParam](#)

Release 29

Release time: 2022-11-16 16:20:25

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteInstancePre](#)

Release 28

Release time: 2022-09-07 14:58:20

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyInstanceAttributes](#)
 - New input parameters:MaxMessageByte

Release 27

Release time: 2022-08-23 16:16:55

Release updates:

Improvement to existing documentation.

New APIs:

- [FetchMessageListByOffset](#)

Release 26

Release time: 2022-08-02 14:54:19

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyTopicAttributes](#)
 - New input parameters:ReplicaNum

Release 25

Release time: 2022-07-22 11:09:02

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeCkafkaZone](#)
 - New input parameters:Cdclid

- [DescribeRegion](#)
 - New input parameters:CdcId

Modified data structures:

- [InstanceDetail](#)
 - New members:ClusterType, Features

Release 24

Release time: 2022-06-01 16:40:03

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyInstancePre](#)

New data structures:

- [CreateInstancePreData](#)
- [CreateInstancePreResp](#)

Release 23

Release time: 2022-05-19 16:50:07

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteRoute](#)

Release 22

Release time: 2022-05-06 10:03:09

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateTopic](#)
 - New input parameters:MaxMessageBytes
- [DescribeInstancesDetail](#)
 - New input parameters:InstanceIdList

Release 21

Release time: 2022-03-24 11:38:15

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyTopicAttributes](#)
 - New input parameters:QuotaProducerByteRate, QuotaConsumerByteRate

New data structures:

- [InstanceQuotaConfigResp](#)

Modified data structures:

- [TopicAttributesResponse](#)
 - New members:QuotaConfig

Release 20

Release time: 2022-03-16 10:38:52

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateConsumer](#)

Release 19

Release time: 2022-01-23 14:24:21

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeInstances](#)
 - New input parameters:VpcId
- [DescribeInstancesDetail](#)
 - New input parameters:InstanceIds

Modified data structures:

- [InstanceDetail](#)
 - New members:PartitionNumber, PublicNetworkChargeType, PublicNetwork

Release 18

Release time: 2022-01-18 17:29:41

Release updates:

Improvement to existing documentation.

New APIs:

- [SendMessage](#)

New data structures:

- [BatchContent](#)

Release 17

Release time: 2022-01-11 10:17:46

Release updates:

Improvement to existing documentation.

New APIs:

- [BatchModifyGroupOffsets](#)
- [BatchModifyTopicAttributes](#)

Modified APIs:

- [CreateTopic](#)
 - New input parameters:Tags
- [ModifyInstanceAttributes](#)
 - New input parameters:DynamicDiskConfig
- [ModifyTopicAttributes](#)
 - New input parameters:Tags

New data structures:

- [BatchModifyTopicInfo](#)
- [BatchModifyTopicResultDTO](#)
- [Partitions](#)

Modified data structures:

- [ZoneResponse](#)
 - New members:PublicNetwork, PublicNetworkLimit

Release 16

Release time: 2021-12-28 10:19:40

Release updates:

Improvement to existing documentation.

New data structures:

- [DynamicDiskConfig](#)

Modified data structures:

- [InstanceAttributesResponse](#)
 - New members:RemainingPartitions, RemainingTopics, DynamicDiskConfig

Release 15

Release time: 2021-11-08 10:45:53

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateTopic](#)
 - New input parameters:RetentionBytes
- [ModifyTopicAttributes](#)
 - New input parameters:RetentionBytes

Modified data structures:

- [Config](#)
 - New members:RetentionBytes

Release 14

Release time: 2021-10-27 16:05:35

Release updates:

Improvement to existing documentation.

New data structures:

- [SaleInfo](#)

Modified data structures:

- [ZoneInfo](#)
 - New members:SalesInfo

Release 13

Release time: 2021-10-08 15:39:56

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateTopic](#)
 - New input parameters: EnableAclRule, AclRuleName
- [DescribeTopic](#)
 - New input parameters: AclRuleName
- [DescribeTopicDetail](#)
 - New input parameters: AclRuleName
- [ModifyTopicAttributes](#)
 - New input parameters: IpWhiteList, EnableAclRule, AclRuleName

New data structures:

- [AclRule](#)

Modified data structures:

- [TopicAttributesResponse](#)
 - New members: EnableAclRule, AclRuleList
- [TopicDetail](#)
 - New members: Status

Release 12

Release time: 2021-09-15 16:43:45

Release updates:

Improvement to existing documentation.

New APIs:

- [BatchCreateAcl](#)

New data structures:

- [AclRuleInfo](#)

Release 11

Release time: 2021-09-13 16:51:07

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteRouteTriggerTime](#)

Modified APIs:

- [CreateAcl](#)
 - New input parameters:ResourceNameList

Release 10

Release time: 2021-09-07 15:58:50

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeTopicSyncReplica](#)

Modified APIs:

- [ModifyInstanceAttributes](#)
 - New input parameters:PublicNetwork

New data structures:

- [TopicInSyncReplicaInfo](#)
- [TopicInSyncReplicaResult](#)

Modified data structures:

- [InstanceAttributesResponse](#)
 - New members:MaxConnection, PublicNetwork, DeleteRouteTimestamp
- [Route](#)
 - New members>DeleteTimestamp

Release 9

Release time: 2021-09-01 10:16:34

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeTopicSubscribeGroup](#)

New data structures:

- [TopicSubscribeGroup](#)

Release 8

Release time: 2021-08-27 17:03:49

Release updates:

Improvement to existing documentation.

New APIs:

- [FetchMessageByOffset](#)

New data structures:

- [ConsumerRecord](#)

Release 7

Release time: 2021-05-20 15:54:18

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeCkafkaZone](#)
- [DescribeRegion](#)

New data structures:

- [ClusterInfo](#)
- [Price](#)
- [Region](#)
- [ZoneInfo](#)
- [ZoneResponse](#)

Release 6

Release time: 2021-04-20 15:01:52

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateAcl](#)
 - **Modified input parameters:** ResourceName

Release 5

Release time: 2021-03-29 14:16:28

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyInstanceAttributes](#)
 - New input parameters:DynamicRetentionConfig, RebalanceTime

New data structures:

- [DynamicRetentionTime](#)
- [TopicRetentionTimeConfigRsp](#)

Modified data structures:

- [InstanceAttributesResponse](#)
 - New members:RetentionTimeConfig

- [InstanceDetail](#)
 - New members:InstanceType, DiskType, MaxTopicNumber, MaxPartitionNumber, RebalanceTime
- [TopicDetail](#)
 - New members:RetentionTimeConfig

Release 4

Release time: 2020-10-20 15:27:48

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyGroupOffsets](#)
 - New input parameters:Partitions

Release 3

Release time: 2020-09-25 11:34:07

Release updates:

Improvement to existing documentation.

Deleted APIs:

- FetchMessageByOffset
- FetchMessageListByOffset
- FetchMessageListByTimestamp

Deleted data structures:

- ConsumerRecord

Modified data structures:

- [SubscribedInfo](#)
 - New members:TopicId

Release 2

Release time: 2020-09-10 17:07:33

Release updates:

Improvement to existing documentation.

New APIs:

- [FetchMessageByOffset](#)
- [FetchMessageListByOffset](#)
- [FetchMessageListByTimestamp](#)

New data structures:

- [ConsumerRecord](#)

Modified data structures:

- [InstanceAttributesResponse](#)
 - New members: InstanceType, Features

Existing Release

Release time: 2020-07-30 19:32:31

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [CreateAcl](#)
- [CreatePartition](#)
- [CreateTopic](#)
- [CreateTopicIpWhiteList](#)
- [CreateUser](#)
- [DeleteAcl](#)
- [DeleteTopic](#)
- [DeleteTopicIpWhiteList](#)
- [DeleteUser](#)
- [DescribeACL](#)

- [DescribeAppInfo](#)
- [DescribeConsumerGroup](#)
- [DescribeGroup](#)
- [DescribeGroupInfo](#)
- [DescribeGroupOffsets](#)
- [DescribeInstanceAttributes](#)
- [DescribeInstances](#)
- [DescribeInstancesDetail](#)
- [DescribeRoute](#)
- [DescribeTopic](#)
- [DescribeTopicAttributes](#)
- [DescribeTopicDetail](#)
- [DescribeUser](#)
- [ModifyGroupOffsets](#)
- [ModifyInstanceAttributes](#)
- [ModifyPassword](#)
- [ModifyTopicAttributes](#)

Existing data structures:

- [Acl](#)
- [AclResponse](#)
- [AppIdResponse](#)
- [Assignment](#)
- [Config](#)
- [ConsumerGroup](#)
- [ConsumerGroupResponse](#)
- [ConsumerGroupTopic](#)
- [CreateTopicResp](#)
- [DescribeGroup](#)
- [Filter](#)
- [Group](#)
- [GroupInfoMember](#)
- [GroupInfoResponse](#)
- [GroupInfoTopics](#)
- [GroupOffsetPartition](#)
- [GroupOffsetResponse](#)
- [GroupOffsetTopic](#)

- [GroupResponse](#)
- [Instance](#)
- [InstanceAttributesResponse](#)
- [InstanceConfigDO](#)
- [InstanceDetail](#)
- [InstanceDetailResponse](#)
- [InstanceResponse](#)
- [JgwOperateResponse](#)
- [ModifyInstanceAttributesConfig](#)
- [OperateResponseData](#)
- [Partition](#)
- [PartitionOffset](#)
- [Route](#)
- [RouteResponse](#)
- [SubscribedInfo](#)
- [Tag](#)
- [Topic](#)
- [TopicAttributesResponse](#)
- [TopicDetail](#)
- [TopicDetailResponse](#)
- [TopicPartitionDO](#)
- [TopicResult](#)
- [User](#)
- [UserResponse](#)
- [VipEntity](#)

Introduction

Last updated : 2024-11-27 17:58:52

Welcome to CKafka.

CKafka runs in Tencent IDC and provides scalable message queue services.

Notes:

- All CKafka APIs described here have been upgraded to API 3.0 and all new CKafka features will be updated here. We recommend you use API 3.0.
- Legacy APIs remain available, but will not be updated.

API Category

Last updated : 2024-11-27 17:58:52

DataHub APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeDatahubTopics	Queries the DataHub topic list	20
SendMessage	Sends messages through the HTTP access layer	5000

Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteRouteTriggerTime	Modifies the route deletion trigger time	20
DescribeAppInfo	Queries user list	-
DescribeCkafkaZone	Views the AZ list	100
DescribeConsumerGroup	Queries consumer group information	100
DescribeGroup	Enumerates consumer groups (simplified)	100
DescribeRegion	Enumerates regions	100

ACL APIs

API Name	Feature	Frequency Limit (maximum requests per second)
BatchCreateAcl	Creates ACL policies in batches	20

CreateAcl	Adds ACL policy	100
CreateAclRule	Creates an ACL rule	20
CreateUser	Adds user	100
DeleteAcl	Deletes ACL	100
DeleteUser	Deletes user	100
DescribeACL	Enumerates ACLs	100
DescribeAclRule	Queries the ACL rule list	20
DescribeUser	Queries user information	100
ModifyAclRule	Modifies an ACL policy	20
ModifyPassword	Changes password	100

Topic APIs

API Name	Feature	Frequency Limit (maximum requests per second)
BatchModifyGroupOffsets	Modifies consumer group offsets in batches	20
BatchModifyTopicAttributes	Sets topic attributes in batches	20
CreateConsumer	Creates a consumer group	20
CreateDatahubTopic	Creates a DataHub topic	20
CreatePartition	Adds partition in topic	100
CreateTopic	Creates topic	20
CreateTopicIpWhiteList	Creates topic IP allowlist	100
DeleteTopic	Deletes topic	1
DeleteTopicIpWhiteList	Deletes topic IP allowlist	20
DescribeDatahubTopic	Gets the DataHub topic attributes	20
DescribeTopic	Gets topic list	100

DescribeTopicAttributes	Gets topic attributes	100
DescribeTopicDetail	Gets topic list details	100
DescribeTopicSubscribeGroup	Searches and subscribes the message group information of a topic	10
FetchMessageByOffset	Querying messages	1
FetchMessageListByOffset	Queries the message list based on an offset	1
DescribeTopicProduceConnection	Queries the connection information of the topic producer	20
ModifyDatahubTopic	Modifies the DataHub topic attributes	20
ModifyTopicAttributes	Sets topic attributes	100
DescribeTopicSyncReplica	Gets the information of a synced topic replica	5

Instance APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateInstancePost	Creates a pay-as-you-go instance	20
CreatePostPaidInstance	Creates a pay-as-you-go instance (New)	20
DeleteInstancePre	Deletes a monthly subscribed (prepaid) instance	20
DescribeGroupInfo	Gets consumer group information	100
DescribeGroupOffsets	Gets consumer group offset	100
DescribeInstanceAttributes	Gets instance attributes	100
DescribeInstances	Obtains instance list information	20
DescribeInstancesDetail	Gets instance list details	20
InquireCkafkaPrice	Queries the price of a CKafka	20

	instance	
ModifyGroupOffsets	Sets consumer group (Groups) offset	100
ModifyInstanceAttributes	Sets instance attributes	100
ModifyInstancePre	Changes the configurations of a prepaid instance	20

Route APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteRoute	Deletes a route	100
DescribeRoute	Views route information	-
DescribeTaskStatus	Queries the task status	20

Making API Requests

Request Structure

Last updated : 2024-11-27 17:58:53

1. Service Address

The API supports access from either a nearby region (at `ckafka.intl.tencentcloudapi.com`) or a specified region (at `ckafka.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 "`ckafka.ap-guangzhou.tencentcloudapi.com`".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	<code>ckafka.intl.tencentcloudapi.com</code>
South China (Guangzhou)	<code>ckafka.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>ckafka.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>ckafka.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>ckafka.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>ckafka.ap-chongqing.tencentcloudapi.com</code>
Hong Kong, Macao, Taiwan (Hong Kong, China)	<code>ckafka.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>ckafka.ap-singapore.tencentcloudapi.com</code>

Southeast Asia (Bangkok)	ckafka.ap-bangkok.tencentcloudapi.com
South Asia (Mumbai)	ckafka.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	ckafka.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	ckafka.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	ckafka.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	ckafka.na-siliconvalley.tencentcloudapi.com
Europe (Frankfurt)	ckafka.eu-frankfurt.tencentcloudapi.com

Note: As financial availability zones and non-financial availability zones are isolated, when accessing the services in a financial availability zone (with the common parameter `Region` specifying a financial availability zone), it is necessary to specify a domain name of the financial availability zone, preferably in the same region as specified in `Region` .

Access region for financial availability zone	Domain name for financial availability zone
East China (Shanghai Finance)	ckafka.ap-shanghai-fsi.tencentcloudapi.com
South China (Shenzhen Finance)	ckafka.ap-shenzhen-fsi.tencentcloudapi.com

2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

Last updated : 2024-11-27 17:58:54

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 <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data you work with belongs. For values supported for an API, see the description of parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in related documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request is sent, for example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the common parameter <code>Version</code> in the API documentation. For example, the version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKID*****/Date/service/tc3_request, SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKID***** is the SecretId; Date is a date and time, and this value must match the value of X-TC-Timestamp (a common

			UTC time format; service is the name of the product/service, and is general name prefix. For example, a domain name <code>cvm.tencentcloudapi.com</code> refers to product and the value would be <code>cvm</code>; - SignedHeaders: The headers that contains the authentication information 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 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/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

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

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

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

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

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

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

```
Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
```

```
Content-Type: multipart/form-data; boundary=58731222010402
```

```
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
```

```
X-TC-Version: 2017-03-12
```

```
X-TC-Timestamp: 1527672334
```

```
X-TC-Region: ap-guangzhou
```

```
--58731222010402
```

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

```
0
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Limit"
```

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the 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 <code>Version</code> in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

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

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbbe224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
```

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

Example of an HTTP POST request structure:

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

```
Host: cvm.tencentcloudapi.com
```

```
Content-Type: application/x-www-form-urlencoded
```

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=
1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
****
```

Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

Region	Value
Southeast Asia (Bangkok)	ap-bangkok
North China (Beijing)	ap-beijing
Southwest China (Chengdu)	ap-chengdu
Southwest China (Chongqing)	ap-chongqing
South China (Guangzhou)	ap-guangzhou
Hong Kong/Macao/Taiwan (China) (Hong Kong (China))	ap-hongkong
Southeast Asia (Jakarta)	ap-jakarta
South Asia (Mumbai)	ap-mumbai
East China (Nanjing)	ap-nanjing
Northeast Asia (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
East China (Shanghai Finance)	ap-shanghai-fsi
South China (Shenzhen Finance)	ap-shenzhen-fsi
Southeast Asia (Singapore)	ap-singapore

Northeast Asia (Tokyo)	ap-tokyo
Europe (Frankfurt)	eu-frankfurt
East US (Virginia)	na-ashburn
West US (Silicon Valley)	na-siliconvalley
South America (São Paulo)	sa-saopaulo

Signature v3

Last updated : 2024-11-27 17:58:56

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
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 string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>. Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request. Concatenation rules: - Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; - 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 <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>. Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating 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 headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers. Concatenation rules: - Both the key and value of the header should be converted to lowercase; - 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 <code>content-type;host</code>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

`[{"Values": ["unnamed"], "Name": "instance-name"}]` in this example
 The pseudocode for calculation is
 Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, `RequestPayload` is always an empty string. The calculation result in this example is
`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

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

POST

/

content-type:application/json; charset=utf-8

host:cvm.tencentcloudapi.com

content-type;host

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should be the domain name of the product called. The calculation result in this example is <code>2018-05-25/cvm/tc3_request</code> .

HashedCanonicalRequest

Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))). The calculation result in this example is

```
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

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
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

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

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

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

Service	Value in the Service field in <code>Credential</code> , such as <code>cvm</code> in this example.
---------	---

2. Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is always <code>TC3-HMAC-SHA256</code> .
SecretId	The SecretId in the key pair, i.e., <code>AKID*****</code> .
CredentialScope	Credential scope (see above). The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
SignedHeaders	Header information for signature calculation (see above), such as <code>content-type;host</code> in this example.
Signature	Signature value. The calculation result in this example is <code>ca282b0a56549857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f</code> .

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

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

The following example shows a finished authorization header:

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

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

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

5. Signature Demo

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

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

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

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=ElIP9YW3pW28FpsEdkXt%2F%2BWcGel%3D&Timestamp=1465185768&Version=2017-03-12.`

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

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

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

Java

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

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

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

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

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

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

```

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

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

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

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

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

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

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

```

```

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

```

Python

```

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

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

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

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

```

```

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

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

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

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

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

```

Golang

```

package main

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

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

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

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

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

```

```

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

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

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

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

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

```

PHP

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

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod. "\n"
.$canonicalUri. "\n"
.$canonicalQueryString. "\n"
.$canonicalHeaders. "\n"
.$signedHeaders. "\n"
.$hashedRequestPayload;
echo $canonicalRequest. PHP_EOL;

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

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

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

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

Ruby

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

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

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

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



```

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

puts canonical_request

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

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

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

puts 'curl -X POST ' + endpoint \

```

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

DotNet

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

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

    public static byte[] HmacSHA256(byte[] key, byte[] msg)
    {
        using (HMACSHA256 mac = new HMACSHA256(key))
        {
            return mac.ComputeHash(msg);
        }
    }

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

```

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

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

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

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

```

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

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}

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

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

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a project, 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\\u547d\\u540d\"], \"Name\": \"instance-name\"}]}";

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

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

NodeJS

```

const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
  const hmac = crypto.createHmac('sha256', secret)
  return hmac.update(message).digest(encoding)
}

function getHash(message, encoding = 'hex') {
  const hash = crypto.createHash('sha256')
  return hash.update(message).digest(encoding)
}

function getDate(timestamp) {
  const date = new Date(timestamp * 1000)
  const year = date.getUTCFullYear()
  const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
  const day = ('0' + date.getUTCDate()).slice(-2)
  return `${year}-${month}-${day}`
}

function main() {

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

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

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

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

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

  const canonicalRequest = httpRequestMethod + "\n"

```

```

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

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

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

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

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

```

C++

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

using namespace std;

string get_data(int64_t &timestamp)
{
    string utcDate;
    char buff[20] = {0};
    // time_t timenow;
    struct tm sttime;
    sttime = *gmtime(&timestamp);
    strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
    utcDate = string(buff);
    return utcDate;
}

string int2str(int64_t n)
{
    std::stringstream ss;
    ss << n;
    return ss.str();
}

string sha256Hex(const string &str)
{
    char buf[3];
    unsigned char hash[SHA256_DIGEST_LENGTH];
    SHA256_CTX sha256;
    SHA256_Init(&sha256);
    SHA256_Update(&sha256, str.c_str(), str.size());
    SHA256_Final(hash, &sha256);
    std::string NewString = "";
    for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
    {
        sprintf(buf, sizeof(buf), "%02x", hash[i]);
        NewString = NewString + buf;
    }
    return NewString;
}
```

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

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

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

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

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

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

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



```

return output;
}

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

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

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

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

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

```

```

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

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

Signature

Last updated : 2024-11-27 17:58:58

Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.

The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the [TencentCloud API Key](#) page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the [TencentCloud API Key](#) page to apply for security credentials.

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

- SecretId: AKID*****
- SecretKey: *****

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
9FzTQAN1UZ489+BqCg1fNBQaCqw=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

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

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=9FzTQAN1UZ489%2BBqCg1fNBQaCqw%3D&Timestamp=1465185768&Version=2017-03-12` .

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

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

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

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // When signing, the parameters need to be sorted in lexicographical order. TreeMap
        // is used here to guarantee the correct order.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // There is no requirement for the order of the parameters in the actual request
        // URL.
        for (String k : params.keySet()) {
```



```
// The request string needs to be URL encoded. As the Key is all in English letters, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
}
return url.toString().substring(0, url.length() - 1);
}

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

Python

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

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

import requests

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

```

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

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

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

```

Golang

```

package main

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

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

```

```

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

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

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

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

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

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

```

PHP

```

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

```

```

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

ksort($params);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $params as $key => $value ) {
    $signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);

$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
// $params["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($params);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);

```

Ruby

```

# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'

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

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

```

```

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

# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
# res = Net::HTTP.get_response(uri)
# puts res.body

```

DotNet

```

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

public class Application {
    public static string Sign(string signKey, string secret)
    {
        string signRet = string.Empty;
        using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
        {
            byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
            signRet = Convert.ToBase64String(hash);
        }
        return signRet;
    }

    public static string MakeSignPlainText(SortedDictionary<string, string> requestParams, string requestMethod, string requestHost, string requestPath)

```

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

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

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

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

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

```

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

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

```

NodeJS

```

const crypto = require('crypto');

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

function formatSignString(reqMethod, endpoint, path, strParam){
    let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
    return strSign;
}

function sha1(secretKey, strsign){
    let signMethodMap = {'HmacSHA1': "sha1"};
    let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
    return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}

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

```

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

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

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

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

strParam = sort_params(params)

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

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

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


Responses

Last updated : 2024-11-27 17:58:59

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

DataHub APIs

DescribeDatahubTopics

Last updated : 2023-07-05 15:57:48

1. API Description

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

This API is used to query the DataHub topic list.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDatahubTopics.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
SearchWord	No	String	Keyword for query
Offset	No	Integer	Query offset, which defaults to <code>0</code> .
Limit	No	Integer	Maximum number of results to be returned in this request. Default value: <code>50</code> . Maximum value: <code>50</code> .

3. Output Parameters

Parameter Name	Type	Description
Result	DescribeDatahubTopicsResp	Topic 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 Querying the DataHub topic list

Input Example

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

{ }
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 1,
      "TopicList": [
        {}
      ]
    },
    "RequestId": "fd9afa97-cc0f-4ea7-9da8-63914a0877e1"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

SendMessage

Last updated : 2023-07-05 15:57:48

1. API Description

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

This API is used to send messages through the HTTP access layer.

A maximum of 5000 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: SendMessage.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	No	String	Common Params . This parameter is not required for this API.
DataHubId	Yes	String	Datahub access ID.
Message.N	Yes	Array of BatchContent	Content of the message that has been sent. Up to 500 messages can be sent in a single request.

3. Output Parameters

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

MessageId	Array of String	Message ID list.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sending messages through the HTTP access layer in DataHub

This example shows you how to send messages through the HTTP access layer in DataHub.

Input Example

```
POST / HTTP/1.1Host: ckafka.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: SendMessage<Common request parameters>{ "DataHubId": "datahub-meuh9nhn", "Message": [ { "Key": "", "Body": "vvvvsdgsgshhh" }, { "Key": "", "Body": "vvvhhh hhhvsdgsgshhh" } ] }
```

Output Example

```
{
  "Response": {
    "RequestId": "20e995ed-75b9-43bb-84c0-35676567e1a8",
    "MessageId": [
      "646174616875622d6d657568396e686e3a6465736372696265436c6f75644170693a343a3236313838",
      "875622d6d657568396e686e3a6465736372696265436c6f75644170693a343a3236323337"
    ]
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
OperationDenied	Operation denied.
OperationDenied.ResourceTaskPaused	Task paused.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.KafkaStorageError	Disk resources are unavailable on the broker.

ACL APIs

BatchCreateAcl

Last updated : 2023-07-05 15:57:51

1. API Description

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

This API is used to create ACL policies in batches.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: BatchCreateAcl.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID.
ResourceType	Yes	Integer	ACL resource type. Default value: <code>2</code> (topic).
ResourceNames.N	Yes	Array of String	Resource list array.
RuleList.N	Yes	Array of AclRuleInfo	ACL rule list.

3. Output Parameters

Parameter Name	Type	Description
Result	Integer	Status code.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating ACL policies in batches

Input Example

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

{
  "InstanceId": "xx",
  "ResourceType": 2,
  "RuleList": [
    {
      "Operation": "xx",
      "PermissionType": "xx",
      "Host": "xx",
      "Principal": "xx"
    }
  ],
  "ResourceNames": [
    "*****"
  ]
}
```

Output Example

```
{
  "Response": {
    "Result": 0,
    "RequestId": "20e995ed-75b9-43bb-84c0-35676567e1a8"
  }
}
```

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	Invalid parameter.

CreateAcl

Last updated : 2023-07-05 15:57:50

1. API Description

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

This API is used to add an ACL policy.

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: CreateAcl.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID information
ResourceType	Yes	Integer	ACL resource type (2 : TOPIC, 3 : GROUP, 4 : CLUSTER).
Operation	Yes	Integer	ACL operation type (2 : ALL, 3 : READ, 4 : WRITE, 5 : CREATE, 6 : DELETE, 7 : ALTER, 8 : DESCRIBE, 9 : CLUSTER_ACTION, 10 : DESCRIBE_CONFIGS, 11 : ALTER_CONFIGS, 12 : IDEMPOTENT_WRITE).
PermissionType	Yes	Integer	Permission type (2 : DENY, 3 : ALLOW). CKafka currently supports ALLOW , which is equivalent to allowlist. DENY will

			be supported for ACLs compatible with open-source Kafka.
ResourceName	No	String	Resource name, which is related to <code>resourceType</code> . For example, if <code>resourceType</code> is <code>TOPIC</code> , this field indicates the topic name; if <code>resourceType</code> is <code>GROUP</code> , this field indicates the group name; if <code>resourceType</code> is <code>CLUSTER</code> , this field can be left empty.
Host	No	String	The default value is <code>*</code> , which means that any host can access. Currently, CKafka does not support the host as <code>*</code> , but the future product based on the open-source Kafka will directly support this
Principal	No	String	The list of users allowed to access the topic. Default: <code>User:*</code> , meaning all users. The current user must be in the user list. Add <code>User:</code> before the user name (<code>User:A</code> for example).
ResourceNameList	No	String	The resource name list, which is in JSON string format. Either <code>ResourceName</code> or <code>resourceNameList</code> can be specified.

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding an ACL policy

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=CreateAcl
&InstanceId=xxx
&ResourceType=2
&ResourceName=test1
&Operation=2
```

```
&PermissionType=2
&Host=1.1.1.1
&Principal=User:user1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply ok]",
      "Data": {
        "FlowId": 0
      }
    },
    "RequestId": "b1ce770b-3623-47d3-b31b-538f8941142d"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

CreateAclRule

Last updated : 2023-07-05 15:57:50

1. API Description

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

This API shows you how to create an ACL rule.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateAclRule.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
ResourceType	Yes	String	ACL resource type. Currently, the only valid value is <code>Topic</code> .
PatternType	Yes	String	Matching type. Valid values: <code>PREFIXED</code> (match by prefix), <code>PRESET</code> (match by preset policy).
RuleName	Yes	String	Rule name
RuleList.N	Yes	Array of AclRuleInfo	ACL rule list

Pattern	No	String	Prefix value for prefix match
IsApplied	No	Integer	A parameter used to specify whether the preset ACL rule is applied to new topics
Comment	No	String	Remarks for ACL rules

3. Output Parameters

Parameter Name	Type	Description
Result	Integer	Unique key of a rule
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an ACL rule

Input Example

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

{
  "InstanceId": "ckafka-12345678",
  "ResourceType": "Topic",
  "RuleList": [
    {
      "Host": "1.2.3.4",
      "Principal": "User:*",
      "Operation": "WRITE",
      "PermissionType": "ALLOW"
    }
  ],
  "RuleName": "testRule",
  "PatternType": "PREFIXED",
```

```
"Pattern": "testPattern"
}
```

Output Example

```
{
  "Response": {
    "Result": 12,
    "RequestId": "8c3daa3a-d87b-47ef-9ccd-f0905eeb8d84"
  }
}
```

5. Developer Resources

SDK

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

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

CreateUser

Last updated : 2023-07-05 15:57:50

1. API Description

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

This API is used to add a user.

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: CreateUser.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
Name	Yes	String	Username
Password	Yes	String	User password

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding a user

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=CreateUser
&InstanceId=xxx
&Name=xxx
&Password=Password
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok"
    },
    "RequestId": "8bdec3bf-585d-4129-9a87-5a7813797c1f"
  }
}
```

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.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DeleteAcl

Last updated : 2023-07-05 15:57:49

1. API Description

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

This API is used to delete an ACL.

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: DeleteAcl.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID information
ResourceType	Yes	Integer	ACL resource type (<code>2</code> : TOPIC, <code>3</code> : GROUP, <code>4</code> : CLUSTER).
ResourceName	Yes	String	Resource name, which is related to <code>resourceType</code> . For example, if <code>resourceType</code> is TOPIC , this field indicates the topic name; if <code>resourceType</code> is GROUP , this field indicates the group name; if <code>resourceType</code> is CLUSTER , this field can be left empty.
Operation	Yes	Integer	ACL operation type (<code>2</code> : ALL, <code>3</code> : READ, <code>4</code> : WRITE, <code>5</code> :

			CREATE, 6 : DELETE, 7 : ALTER, 8 : DESCRIBE, 9 : CLUSTER_ACTION, 10 : DESCRIBE_CONFIGS, 11 : ALTER_CONFIGS, 12 : IDEMPOTENT_WRITE).
PermissionType	Yes	Integer	Permission type (2 : DENY, 3 : ALLOW). CKafka currently supports ALLOW , which is equivalent to allowlist. DENY will be supported for ACLs compatible with open-source Kafka.
Host	No	String	The default value is * , which means that any host can access. Currently, CKafka does not support the host as * , but the future product based on the open-source Kafka will directly support this
Principal	No	String	User list. The default value is * , which means that any user can access. The current user can only be one included in the user list

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting an ACL

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DeleteAcl
&InstanceId=xxx
&ResourceType=2
&ResourceName=1
&Operation=2
&PermissionType=2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnMessage": "ok[apply ok]",
      "ReturnCode": "0",
      "Data": {
        "FlowId": 0
      }
    },
    "RequestId": "2140f435-b350-4429-a105-9b83efe104b0"
  }
}
```

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.

InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DeleteUser

Last updated : 2023-07-05 15:57:49

1. API Description

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

This API is used to delete a user.

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: DeleteUser.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Instanceld	Yes	String	Instance ID
Name	Yes	String	Username

3. Output Parameters

Parameter Name	Type	Description

Result	JgwOperateResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a user

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DeleteUser
&InstanceId=xxx
&Name=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok"
    },
    "RequestId": "c0f25f9c-4a80-48bb-ad2a-a5107041d486"
  }
}
```

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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeACL

Last updated : 2023-07-05 15:57:49

1. API Description

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

This API is used to enumerate ACLs.

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: DescribeACL.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
ResourceType	Yes	Integer	ACL resource type (2 : TOPIC, 3 : GROUP, 4 : CLUSTER).
ResourceName	Yes	String	Resource name, which is related to <code>resourceType</code> . For example, if <code>resourceType</code> is TOPIC , this field indicates the topic name; if <code>resourceType</code> is GROUP , this field indicates the group name; if <code>resourceType</code> is CLUSTER , this field can be left empty.
Offset	No	Integer	Offset position

Limit	No	Integer	Quantity limit
SearchWord	No	String	Keyword match

3. Output Parameters

Parameter Name	Type	Description
Result	AclResponse	Returned ACL result set object
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enumerating ACLs

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeACL
&InstanceId=xxx
&ResourceType=2
&ResourceName=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 1,
      "AclList": [
        {
          "ResourceType": 2,
          "ResourceName": "test",
          "Principal": "User:test",
          "Host": "*",
          "Operation": 3,
          "PermissionType": 3
        }
      ]
    }
  }
}
```

```
]
},
"RequestId": "62d589e0-53d5-47e0-95ff-237c48b8fb77"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.

InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeAclRule

Last updated : 2023-07-05 15:57:49

1. API Description

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

This API is used to query the ACL rule list.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAclRule.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
RuleName	No	String	ACL rule name
PatternType	No	String	ACL rule matching type
IsSimplified	No	Boolean	Whether to read simplified ACL rules

3. Output Parameters

Parameter Name	Type	Description
Result	AclRuleResp	The set of returned ACL rules
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enumerating ACL rules

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeAclRule
&InstanceId=xxx
&RuleName=xxx
&PatternType=xxx
&IsSimplified=false
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 1,
      "AclRuleList": [
        {
          "RuleName": "testRule",
          "ResourceType": 2
        }
      ]
    },
    "RequestId": "62d589e0-53d5-47e0-95ff-237c48b8fb77"
  }
}
```

5. Developer Resources

SDK

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

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.

UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeUser

Last updated : 2023-07-05 15:57:49

1. API Description

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

This API is used to query user information.

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: DescribeUser.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
SearchWord	No	String	Filter by name
Offset	No	Integer	Offset
Limit	No	Integer	Number of results to be returned in this request

3. Output Parameters

Parameter Name	Type	Description
Result	UserResponse	Returned result list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying user information

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeUser
&InstanceId=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "Users": [
        {
          "UserId": 41,
          "Name": "ANONYMOUS",
          "CreateTime": "2019-09-05 00:53:28",
          "UpdateTime": "2019-09-05 00:53:28"
        },
        {
          "UserId": 40,
          "Name": "test",
          "CreateTime": "2019-09-05 00:20:36",
          "UpdateTime": "2019-09-05 00:20:36"
        }
      ],
      "TotalCount": 2
    },
    "RequestId": "26f6afd4-2966-43f5-a7a2-d506de3e881f"
  }
}
```

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.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.

InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

ModifyAclRule

Last updated : 2023-07-05 15:57:48

1. API Description

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

This API is used to modify an ACL policy, and currently only supports specifying whether to apply the preset rule to new 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: ModifyAclRule.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
RuleName	Yes	String	ACL policy name
IsApplied	Yes	Integer	Whether to be applied to new topics

3. Output Parameters

Parameter Name	Type	Description
Result	Integer	Unique key of a rule
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying ACL rules

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=ModifyAclRule
&InstanceId=xxx
&RuleName=xxx
&IsApplied=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": 1,
    "RequestId": "72b987c9-8842-47ac-9ad6-fa2bde3e936d"
  }
}
```

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 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	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.NotAllowedEmpty	The parameter is required.

ModifyPassword

Last updated : 2023-07-05 15:57:48

1. API Description

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

This API is used to change the password.

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: ModifyPassword.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
Name	Yes	String	Username
Password	Yes	String	Current user password
PasswordNew	Yes	String	New user password

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Changing the password

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=ModifyPassword
&InstanceId=xxx
&Name=xxx
&Password=1
&PasswordNew=2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok"
    },
    "RequestId": "21c3d702-ae87-4a2a-a51b-b3d4516f121a"
  }
}
```

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.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

Topic APIs

DescribeTopicProduceConnection

Last updated : 2024-11-27 17:59:01

1. API Description

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

This API is used to query the connection information of the topic producer.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTopicProduceConnection.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-jakarta, ap-mumbai, ap-nanjing, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, sa-saopaulo.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic name

3. Output Parameters

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

4. Example

Example1 Getting the topic connection information

This example shows you how to get the topic connection information.

Input Example

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

{
  "InstanceId": "ckafka-xxxx",
  "TopicName": "xxxx"
}
```

Output Example

```
{
  "Response": {
    "Result": [
      {
        "IpAddr": "xxxxxx",
        "Time": "2021-10-10 21:10:48"
      }
    ],
    "RequestId": "xx"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.

BatchModifyGroupOffsets

Last updated : 2023-03-22 17:06:18

1. API Description

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

This API is used to batch modify consumer group offsets.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: BatchModifyGroupOffsets.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
GroupName	Yes	String	Consumer group name.
InstanceId	Yes	String	Instance name.
Partitions.N	Yes	Array of Partitions	Partition information.
TopicName.N	No	Array of String	Name of the specified topic. Default value: names of all topics.

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting consumer group offsets in batches

This example shows you how to batch set consumer group offsets.

Input Example

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

{
  "InstanceId": "xx",
  "GroupName": "xx",
  "TopicName": [
    "xx"
  ],
  "Partitions": [
    {
      "Partition": 0,
      "Offset": 0
    }
  ]
}
```

Output Example

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

```
"ReturnCode": "0",
"ReturnMessage": "ok",
>Data": "ok"
},
"RequestId": "ae362db8-81f6-4441-b0cc-1f6ffa31127e"
}
```

5. Developer Resources

SDK

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

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.

InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.

BatchModifyTopicAttributes

Last updated : 2023-03-22 17:06:18

1. API Description

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

This API is used to batch set topic attributes.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: BatchModifyTopicAttributes.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID.
Topic.N	Yes	Array of BatchModifyTopicInfo	Topic attribute list

3. Output Parameters

Parameter Name	Type	Description
Result	Array of BatchModifyTopicResultDTO	Returned result.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting topic attributes in batches

This example shows you how to batch set topic attributes.

Input Example

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

{
  "InstanceId": "xx",
  "Topic": [
    {
      "UncleanLeaderElectionEnable": true,
      "PartitionNum": 0,
      "MinInsyncReplicas": 0,
      "ReplicaNum": 0,
      "CleanUpPolicy": "xx",
      "Note": "xx",
      "SegmentMs": 0,
      "RetentionMs": 0,
      "MaxMessageBytes": 0,
      "TopicName": "xx",
      "RetentionBytes": 0
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "Result": [
      {
        "InstanceId": "ckafka-jam3ao99",
        "TopicName": "test",
        "ReturnCode": "20018",
        "Message": "get topic information fail"
      },
      {
        "InstanceId": "ckafka-jam3ao99",
        "TopicName": "test1",
        "ReturnCode": "20018",
        "Message": "get topic information fail"
      }
    ],
    "RequestId": "xxxxxxxx0001"
  }
}
```

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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.

CreateConsumer

Last updated : 2023-03-22 17:06:18

1. API Description

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

This API is used to create a 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: CreateConsumer.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID.
GroupName	Yes	String	Group name.
TopicName	No	String	Topic name. You must specify the name of an existing topic for either <code>TopicName</code> or <code>TopicNameList</code> .
TopicNameList.N	No	Array of String	Topic name array.

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Description of the created consumer group.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a consumer

This example shows you how to create a consumer.

Input Example

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

{
  "InstanceId": "ckafka-xxx",
  "TopicName": "topic-xxx",
  "GroupName": "group-xxx"
}
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnMessage": "xx",
      "ReturnCode": "xx",
      "Data": {
        "FlowId": 0
      }
    },
    "RequestId": "xx"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

CreateDatahubTopic

Last updated : 2023-07-05 15:57:42

1. API Description

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

This API is used to create a DataHub 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: CreateDatahubTopic.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Name	Yes	String	Topic name, which is a string of up to 128 characters. It can contain letters, digits, and hyphens (-) and must start with a letter.
PartitionNum	Yes	Integer	Number of partitions, which should be greater than 0.
RetentionMs	Yes	Integer	Message retention period in milliseconds. The current minimum value is 60,000 ms.
Note	No	String	Topic remarks, which are a string of up to 128 characters. It can contain letters, digits, and hyphens (-) and must start with a letter.

Tags.N	No	Array of Tag	Tag list
--------	----	------------------------------	----------

3. Output Parameters

Parameter Name	Type	Description
Result	DatahubTopicResp	Returned 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 topic

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=CreateDatahubTopic
&Name=xxx
&PartitionNum=1
&RetentionMs=3600000
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TopicName": "xx"
    },
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.TopicExist	The topic name is duplicate.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.

UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

CreatePartition

Last updated : 2023-07-05 15:57:42

1. API Description

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

This API is used to add a partition in a topic.

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: CreatePartition.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic name
PartitionNum	Yes	Integer	Number of topic partitions

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result set
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding a topic partition

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=CreatePartition
&InstanceId=xxx
&TopicName=xxx
&PartitionNum=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply success]"
    },
    "RequestId": "483c3edd-a2ac-420c-905d-47a5ec7de4ad"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
LimitExceeded	The quota limit has been reached.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.

UnsupportedOperation.OssReject	Oss rejected the operation.
--------------------------------	-----------------------------

CreateTopic

Last updated : 2023-07-05 15:57:42

1. API Description

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

This API is used to create a CKafka 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: CreateTopic.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic name, which is a string of up to 128 characters. It can contain letters, digits, and hyphens (-) and must start with a letter.
PartitionNum	Yes	Integer	Number of partitions, which should be greater than 0
ReplicaNum	Yes	Integer	Number of replicas, which cannot be higher than the number of brokers. Maximum value: 3

EnableWhiteList	No	Integer	IP allowlist switch. 1: enabled, 0: disabled. Default value: 0
IpWhiteList.N	No	Array of String	IP allowlist list for quota limit, which is required if <code>enableWhileList</code> is 1
CleanUpPolicy	No	String	Log cleanup policy, which is <code>delete</code> by default. <code>delete</code> : logs will be deleted by save time; <code>compact</code> : logs will be compressed by key; <code>compact, delete</code> : logs will be compressed by key and deleted by save time.
Note	No	String	Topic remarks string of up to 64 characters, which must begin with a letter and can contain letters, digits, and dashes (-)
MinInsyncReplicas	No	Integer	Default value: 1
UncleanLeaderElectionEnable	No	Integer	Whether to allow an unsynced replica to be elected as leader. false: no, true: yes. Default value: false
RetentionMs	No	Integer	Message retention period in milliseconds, which is optional. Min value: 60,000 ms.
SegmentMs	No	Integer	Segment rolling duration in ms. The current minimum value is 3,600,000 ms
MaxMessageBytes	No	Integer	Max message size in bytes. Value range: 1,024 bytes (1 KB) to 8,388,608 bytes (8 MB).
EnableAclRule	No	Integer	Preset ACL rule. <code>1</code> : enable, <code>0</code> : disable. Default value: <code>0</code> .
AclRuleName	No	String	Name of the preset ACL rule.
RetentionBytes	No	Integer	Message retention file size in bytes, which is an optional parameter. Default value: -1. Currently, the min value that can be entered is 1,048,576 B.
Tags.N	No	Array of Tag	Tag list.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Result	CreateTopicResp	Returned 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 topic

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=CreateTopic
&InstanceId=xxx
&TopicName=xxx
&PartitionNum=1
&ReplicaNum=2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TopicId": "topic-k766ruye"
    },
    "RequestId": "1305a410-b030-476d-acdf-eba0dfd5323b"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
LimitExceeded	The quota limit has been reached.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

UnsupportedOperation.BatchDellInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

CreateTopicIpWhiteList

Last updated : 2023-07-05 15:57:42

1. API Description

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

This API is used to create a topic IP allowlist.

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: CreateTopicIpWhiteList.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic name
IpWhiteList.N	Yes	Array of String	IP allowlist list

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Result of deleting topic IP allowlist
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an IP allowlist for a topic

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=CreateTopicIpWhiteList
&InstanceId=xxxx
&TopicName=xxx
&IpWhiteList.n=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply success]"
    },
    "RequestId": "7a6f7927-a435-4e55-8687-f24a8838f744"
  }
}
```

5. Developer Resources

SDK

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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
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DeleteTopic

Last updated : 2023-07-05 15:57:41

1. API Description

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

This API is used to delete a CKafka topic.

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: DeleteTopic.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	CKafka instance ID
TopicName	Yes	String	CKafka topic name

3. Output Parameters

Parameter Name	Type	Description

Result	JgwOperateResponse	Returned result set
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://ckafka.tencentcloudapi.com/?Action=DeleteTopic
&InstanceId=xxx
&TopicName=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply success]"
    },
    "RequestId": "bf88d4c8-06f5-4643-be86-5ffc179dc325"
  }
}
```

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 .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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DeleteTopicIpWhiteList

Last updated : 2023-07-05 15:57:41

1. API Description

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

This API is used to delete a topic IP allowlist.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteTopicIpWhiteList.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic name
IpWhiteList.N	Yes	Array of String	IP allowlist list

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Result of deleting topic IP allowlist
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting an IP allowlist for a topic

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DeleteTopicIpWhiteList
&InstanceId=xxx
&TopicName=xxxx
&IpWhiteList.n=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply success]"
    },
    "RequestId": "b800c966-083a-40f5-8d54-44f40c6b364f"
  }
}
```

5. Developer Resources

SDK

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

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
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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.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeDatahubTopic

Last updated : 2023-07-05 15:57:41

1. API Description

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

This API is used to get the DataHub topic attributes.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDatahubTopic.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Name	Yes	String	Name

3. Output Parameters

Parameter Name	Type	Description
Result	DescribeDatahubTopicResp	Returned result object

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 attributes

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeDatahubTopic
&Name=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "UserName": "xx",
      "TopicId": "xx",
      "Name": "xx",
      "PartitionNum": 1,
      "Status": 1,
      "Note": "xx",
      "RetentionMs": 1,
      "Password": "xx",
      "TopicName": "xx"
    },
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.

UnsupportedOperation.OssReject	Oss rejected the operation.
--------------------------------	-----------------------------

DescribeTopic

Last updated : 2023-07-05 15:57:41

1. API Description

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

API domain name: https://ckafka.tencentcloudapi.com

This API is used to get the list of topics in a CKafka instance of a user.

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: DescribeTopic.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
SearchWord	No	String	Filter by <code>topicName</code> . Fuzzy search is supported
Offset	No	Integer	Offset. If this parameter is left empty, 0 will be used by default
Limit	No	Integer	The number of results to be returned, which defaults to 20 if left empty. The maximum value is 50.
AclRuleName	No	String	Name of the preset ACL rule.

3. Output Parameters

Parameter Name	Type	Description
Result	TopicResult	Returned 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 Getting the topic list of an instance

Input Example

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

{
  "InstanceId": "ckafka-xxooa0"
}
```

Output Example

```
{
  "Response": {
    "Result": {
      "TopicList": [
        {
          "TopicId": "inter-topic-8sj6wxwi",
          "TopicName": "test1",
          "Note": ""
        },
        {
          "TopicId": "inter-topic-844bkmry",
          "TopicName": "test10",

```

```
"Note": ""
},
"TotalCount": 12
},
"RequestId": "8d7551b2-651e-4f47-80bc-13a478fda732"
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.

InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeTopicAttributes

Last updated : 2023-07-05 15:57:40

1. API Description

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

This API is used to get topic attributes.

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: DescribeTopicAttributes.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic name

3. Output Parameters

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

Name		
Result	TopicAttributesResponse	Returned result object
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting topic attributes

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeTopicAttributes
&InstanceId=xxx
&TopicName=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TopicId": "xx",
      "PartitionNum": 3,
      "AclRuleList": [
        {
          "Comment": "xx",
          "PatternType": "xx",
          "UpdateTimeStamp": "xx",
          "InstanceId": "xx",
          "Pattern": "xx",
          "ResourceType": "xx",
          "AclList": "xx",
          "PatternTypeTitle": "xx",
          "IsApplied": 0,
          "RuleName": "xx",
          "TopicCount": 0,
          "CreateTimeStamp": "xx",
          "TopicName": "xx"
        }
      ],
      "Note": "xx",
      "IpWhiteList": [
```

```
"xx"
],
"EnableAclRule": 0,
"QuotaConfig": {
  "QuotaConsumerByteRate": 0,
  "QuotaProducerByteRate": 0
},
"Partitions": [
  {
    "Partition": 0,
    "IsrNum": 2,
    "LeaderStatus": 0,
    "ReplicaNum": 2
  },
  {
    "Partition": 1,
    "IsrNum": 2,
    "LeaderStatus": 0,
    "ReplicaNum": 2
  },
  {
    "Partition": 2,
    "IsrNum": 2,
    "LeaderStatus": 0,
    "ReplicaNum": 2
  }
],
"Config": {
  "UncleanLeaderElectionEnable": 0,
  "MinInsyncReplicas": 0,
  "SegmentMs": 0,
  "CleanUpPolicy": "xx",
  "SegmentBytes": 0,
  "RetentionBytes": 0,
  "MaxMessageBytes": 0,
  "Retention": 300000000
},
"CreateTime": 111,
"EnableWhiteList": 0
},
"RequestId": "xx"
}
```


5. Developer Resources

SDK

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

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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
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.

InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeTopicDetail

Last updated : 2023-07-05 15:57:40

1. API Description

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

This API is used to get topic list details (only for call in the console).

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: DescribeTopicDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
SearchWord	No	String	(Filter) filter by <code>topicName</code> . Fuzzy search is supported
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. This value must be greater than 0
AclRuleName	No	String	Name of the preset ACL rule.

3. Output Parameters

Parameter Name	Type	Description
Result	TopicDetailResponse	Returned entity of topic details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting topic list details

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeTopicDetail
&InstanceId=ckafka-xxooa0
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TopicList": [
        {
          "TopicName": "test",
          "TopicId": "inter-topic-d7a2f7fq",
          "PartitionNum": 3,
          "ReplicaNum": 2,
          "Note": "",
          "CreateTime": 1561637447,
          "EnableWhiteList": false,
          "IpWhiteListCount": 0,
          "ForwardCosBucket": "",
          "ForwardStatus": 1,
          "ForwardInterval": 0,
          "Config": {
            "Retention": 300000000
          },
          "RetentionTimeConfig": {
            "Expect": 1440,
```

```
"Current": 480,
"ModTimeStamp": 1561637447
}
},
"TotalCount": 12
},
"RequestId": "98fdae03-9bc2-4c2e-b429-0a96cca7144b"
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

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

InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeTopicSubscribeGroup

Last updated : 2023-07-05 15:57:40

1. API Description

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

This API is used to search and subscribe the message group information of a topic.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTopicSubscribeGroup.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic name
Offset	No	Integer	Starting position of paging
Limit	No	Integer	Number of results per page

3. Output Parameters

Parameter Name	Type	Description
Result	TopicSubscribeGroup	Returned results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Searching and subscribing the message group information of a topic

Input Example

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

{
  "InstanceId": "ckafka-kmex0nvv",
  "TopicName": "test"
}
```

Output Example

```
{
  "Response": {
    "Result": {
      "Status": 0,
      "TotalCount": 1,
      "StatusCountInfo": "xx",
      "GroupsInfo": [
        {
          "Protocol": "xx",
          "ProtocolType": "xx",
          "ErrorCode": "xx",
          "State": "xx",
          "Members": [
            {
```



```
"ClientHost": "xx",
"MemberId": "xx",
"ClientId": "xx",
"Assignment": {
  "Topics": [
    {
      "Topic": "xx",
      "Partitions": [
        0
      ]
    }
  ],
  "Version": 0
},
"Group": "xx"
},
"RequestId": "xx"
}
```

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	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.NotAllowedEmpty	The parameter is required.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
OperationDenied	Operation denied.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDeleteInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

FetchMessageByOffset

Last updated : 2023-07-05 15:57:39

1. API Description

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

This API is used to query messages based on a specified offset position.

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: FetchMessageByOffset.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID.
Topic	Yes	String	Topic name
Partition	Yes	Integer	Partition ID
Offset	No	Integer	Offset information, which is required.

3. Output Parameters

Parameter Name	Type	Description
Result	ConsumerRecord	Returned results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying messages

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=FetchMessageByOffset
&InstanceId=xxx
&Topic=xxx
&Partition=1
&Offset=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "Timestamp": 0,
      "Topic": "xxx",
      "Partition": 2,
      "Offset": 2,
      "Key": "xxx",
      "Value": "xxx"
    },
    "RequestId": "62d589e0-53d5-47e0-95ff-237c48b8fb77"
  }
}
```

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
FailedOperation	Operation failed.

FetchMessageListByOffset

Last updated : 2023-07-05 15:57:39

1. API Description

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

This API is used to query the message list based on an offset.

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: FetchMessageListByOffset.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
Topic	Yes	String	Topic name
Partition	Yes	Integer	Partition ID
Offset	Yes	Integer	Offset information
SinglePartitionRecordNumber	No	Integer	The maximum number of messages that can be queried. Default value: 20. Maximum value: 20.

3. Output Parameters

Parameter Name	Type	Description
Result	Array of ConsumerRecord	Returned result. Note: The returned list does not display the message content (key and value). To query the message content, call the <code>FetchMessageByOffset</code> API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying messages based on an offset

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=FetchMessageListByOffset
&InstanceId=xxx
&Topic=xxx
&Partition=1
&Offset=1
&SinglePartitionRecordNumber=20
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": [
      {
        "Topic": "xxx",
        "Partition": 2,
        "Offset": 1,
        "Key": "xxx",
        "Value": "xxx",
        "Timestamp": 1
      },
      {
        "Topic": "xxx",
        "Partition": 2,
        "Offset": 2,
```

```
"Key": "xxx",
"Value": "xxx",
"Timestamp": 1
},
"RequestId": "62d589e0-53d5-47e0-95ff-237c48b8fb77"
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.

ModifyDatahubTopic

Last updated : 2023-07-05 15:57:39

1. API Description

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

This API is used to modify the DataHub topic attributes.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyDatahubTopic.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Name	Yes	String	Name
RetentionMs	Yes	Integer	Message retention period in ms. The current minimum value is 60,000 ms.
Note	No	String	Topic remarks, which are a string of up to 64 characters. It can contain letters, digits, and hyphens (-) and must start with a letter.
Tags.N	No	Array of Tag	Tag list

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result set
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting topic attributes

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=ModifyDatahubTopic
&Name=xxx
&Note=xxx
&RetentionMs=3600000
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnMessage": "xx",
      "ReturnCode": "xx",
      "Data": {
        "FlowId": 0
      }
    },
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.

UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

ModifyTopicAttributes

Last updated : 2023-07-05 15:57:38

1. API Description

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

This API is used to modify topic attributes.

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: ModifyTopicAttributes.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID.
TopicName	Yes	String	Topic name.
Note	No	String	Topic remarks string of up to 64 characters, which must begin with a letter and can contain letters, digits, and dashes (-).
EnableWhiteList	No	Integer	IP allowlist switch. 1: enabled, 0: disabled.

MinInsyncReplicas	No	Integer	Default value: 1.
UncleanLeaderElectionEnable	No	Integer	0: false, 1: true. Default value: 0.
RetentionMs	No	Integer	Message retention period in ms. The current minimum value is 60,000 ms.
SegmentMs	No	Integer	Segment rolling duration in ms. The current minimum value is 86,400,000 ms.
MaxMessageBytes	No	Integer	Max message size in bytes. Max value: 8,388,608 bytes (8 MB).
CleanUpPolicy	No	String	Message deletion policy. Valid values: delete, compact
IpWhiteList.N	No	Array of String	IP allowlist, which is required if the value of <code>enableWhiteList</code> is 1.
EnableAclRule	No	Integer	Preset ACL rule. <code>1</code> : enable, <code>0</code> : disable. Default value: <code>0</code> .
AclRuleName	No	String	Name of the preset ACL rule.
RetentionBytes	No	Integer	Message retention file size in bytes, which is an optional parameter. Default value: -1. Currently, the min value that can be entered is 1,048,576 B.
Tags.N	No	Array of Tag	Tag list.
QuotaProducerByteRate	No	Integer	Production throttling in MB/sec.
QuotaConsumerByteRate	No	Integer	Consumption throttling in MB/sec.
ReplicaNum	No	Integer	The number of topic replicas.

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result set
RequestId	String	The unique request ID, which is returned for each request. RequestId

		is required for locating a problem.
--	--	-------------------------------------

4. Example

Example1 Setting topic attributes

Input Example

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

{
  "InstanceId": "xxx",
  "Note": "xxx",
  "TopicName": "xxx"
}
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnMessage": "xx",
      "ReturnCode": "xx",
      "Data": {
        "FlowId": 0
      }
    },
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.

UnsupportedOperation.OssReject	Oss rejected the operation.
--------------------------------	-----------------------------

DescribeTopicSyncReplica

Last updated : 2023-07-05 15:57:40

1. API Description

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

This API is used to get the details of a synced topic replica.

A maximum of 5 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTopicSyncReplica.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
TopicName	Yes	String	Topic 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.

OutOfSyncReplicaOnly	No	Boolean	Filters unsynced replicas only
----------------------	----	---------	--------------------------------

3. Output Parameters

Parameter Name	Type	Description
Result	TopicInSyncReplicaResult	Returns topic replica details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the details of unsynced topic

Input Example

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

{
  "InstanceId": "xx",
  "TopicName": "xxx",
  "Offset": 0,
  "Limit": 10,
  "OutOfSyncReplicaOnly": true
}
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 1,
      "TopicInSyncReplicaList": [
        {
          "Partition": "xxxx",
```

```
"Leader": 1,
"Replica": "110,3551,2315",
"InSyncReplica": "100,5526",
"BeginOffset": 10,
"EndOffset": 10,
"MessageCount": 1,
"OutOfSyncReplica": "120,51"
}
],
},
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.

InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
UnsupportedOperation	Unsupported operation.

Instance APIs

CreatePostPaidInstance

Last updated : 2023-07-05 15:57:47

1. API Description

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

This API is used to replace `CreateInstancePost` to create a pay-as-you-go instance. You can call this API via SDK or the TencentCloud API console to create a pay-as-you-go CKafka instance, which is an alternate option for making a purchase in the console.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreatePostPaidInstance.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceName	No	String	Instance name, which is a string of up to 64 letters, digits, and hyphens (-). It must start with a letter.
VpcId	No	String	ID of the VPC where the default access point of the created instance resides. This parameter is required as instances cannot be created in the classic network currently.

SubnetId	No	String	ID of the subnet where the default access point of the created instance resides.
InstanceType	No	Integer	Instance specification. This parameter is required for a Standard Edition instance but not for a Pro Edition instance. Valid values: <code>1</code> (Small), <code>2</code> (Standard), <code>3</code> (Advanced), <code>4</code> (Large), <code>5</code> (Xlarge L1), <code>6</code> (Xlarge L2), <code>7</code> (Xlarge L3), <code>8</code> (Xlarge L4),
MsgRetentionTime	No	Integer	The maximum instance log retention period in minutes by default. If this parameter is left empty, the default retention period is 1,440 minutes (1 day) to 30 days. If the message retention period of the topic is explicitly set, it will prevail.
ClusterId	No	Integer	Cluster ID, which can be selected when you create an instance. You don't need to pass in this parameter if the cluster where the instance resides is not specified.
KafkaVersion	No	String	Instance version. Valid values: <code>0.10.2</code> , <code>1.1.1</code> , <code>2.4.2</code> , and <code>2.8.1</code> .
SpecificationsType	No	String	Instance type. <code>standard</code> (Standard Edition), <code>profession</code> (Pro Edition)
DiskType	No	String	Instance disk type. <code>CLOUD_BASIC</code> (Premium Cloud Storage), <code>CLOUD_SSD</code> (SSD). If this parameter is left empty, the default value <code>CLOUD_BASIC</code> will be used.
BandWidth	No	Integer	Private network peak bandwidth of an instance in MB/sec. If you create a Standard Edition instance, pass in the corresponding peak bandwidth for the current instance specification. If you create a Pro Edition instance, configure the peak bandwidth, partition count, and other parameters as required by Pro Edition.
DiskSize	No	Integer	Instance disk size, which must meet the requirement of the instance's specification.
Partition	No	Integer	The maximum number of partitions of the instance, which must meet the requirement of the instance's specification.
TopicNum	No	Integer	The maximum number of topics of the instance, which must meet the requirement of the instance's specification.
ZonId	No	Integer	AZ of the instance. When a multi-AZ instance is created, the value of this parameter is the AZ ID of the subnet where the instance's default access point resides.

MultiZoneFlag	No	Boolean	Whether the current instance is a multi-AZ instance
Zonelds.N	No	Array of Integer	This parameter indicates the list of AZ IDs when the instance is deployed in multiple AZs. Note that <code>ZoneId</code> must be included in the array of this parameter.
InstanceNum	No	Integer	The number of purchased instances. Default value: <code>1</code> . This parameter is optional. If it is passed in, multiple instances will be created, with their names being <code>instanceName</code> plus different suffixes.
PublicNetworkMonthly	No	Integer	Public network bandwidth in Mbps. The 3 Mbps of free bandwidth is not included here by default. For example, if you need 3 Mbps of public network bandwidth, pass in <code>0</code> ; if you need 6 Mbps, pass in <code>3</code> . The value must be an integer multiple of 3.

3. Output Parameters

Parameter Name	Type	Description
Result	CreateInstancePostResp	Returned 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 pay-as-you-go Pro Edition instance

This example shows you how to create a pay-as-you-go Pro Edition instance, with the peak bandwidth being 20 MB/sec and disk capacity being 200 GB.

Input Example

```
POST / HTTP/1.1Host: ckafka.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreatePostPaidInstance<Common request parameters>{ "InstanceName": "test55", "VpcId": "vpc-rmcgxxxx", "SubnetId": "subnet-mnzcxxxx", "ZoneId": 450001, "InstanceType": 1, "KafkaVersion": "1.1.1", "SpecificationsType": "profession", "Di
```



```
skSize": 200, "BandWidth": 20, "Partition": 400, "DiskType": "CLOUD_BASIC", "PublicNetworkMonthly": 0}
```

Output Example

```
{
  "Response": {
    "RequestId": "323c3bbe-db79-48c3-9b76-63aacd65b169",
    "Result": {
      "Data": {
        "DealNameInstanceIdMapping": [
          {
            "DealName": "20230608002033899990000",
            "InstanceIdList": [
              "ckafka-mom5xxxx"
            ]
          }
        ],
        "DealNames": [
          "20230608002033899990000"
        ],
        "FlowId": 0,
        "InstanceId": "ckafka-mom5xxxx"
      },
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply ok]"
    }
  }
}
```

Example2 Creating pay-as-you-go Pro Edition instances in batches

This example shows you how to create three pay-as-you-go Pro Edition instances at a time.

Input Example

```
POST / HTTP/1.1Host: ckafka.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreatePostPaidInstance<Common request parameters>{ "InstanceName": "test58", "VpcId": "vpc-rmcg5cpf", "SubnetId": "subnet-mnzcs7gk", "KafkaVersion": "2.4.2", "SpecificationsType": "profession", "BandWidth": 20, "DiskSize": 200, "Partition": 400, "TopicNum": 200, "ZoneId": 450001, "InstanceNum": 3, "PublicNetworkMonthly": 12}
```

Output Example

```
{
  "Response": {
    "RequestId": "cda79237-6424-482a-b2d2-97d4853b33b4",
    "Result": {
      "Data": {
        "DealNameInstanceIdMapping": [
          {
            "DealName": "20230608002033915320000",
            "InstanceIdList": [
              "ckafka-bz4dxxxx",
              "ckafka-o9gdxxxx",
              "ckafka-aj5gxxxx"
            ]
          }
        ],
        "DealNames": [
          "20230608002033915320000"
        ],
        "FlowId": 0,
        "InstanceId": "ckafka-bz4dxxxx"
      },
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply ok]"
    }
  }
}
```

Example3 Creating a pay-as-you-go Pro Edition instances across multiple AZs

This example shows you how to create a Pro Edition instance across three AZs.

Input Example

```
POST / HTTP/1.1Host: ckafka.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreatePostPaidInstance<Common request parameters>{ "InstanceName": "test55", "VpcId": "vpc-rmcgxxxx", "SubnetId": "subnet-mnzcxxxx", "ZoneId": 450001, "InstanceType": 1, "KafkaVersion": "1.1.1", "SpecificationsType": "profession", "DiskSize": 200, "BandWidth": 20, "Partition": 400, "DiskType": "CLOUD_BASIC", "PublicNetworkMonthly": 0, "MultiZoneFlag": true, "ZoneIds": [ 450001, 450002, 450003 ]}
```

Output Example

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

```
"RequestId": "323c3bbe-db79-48c3-9b76-63aacd65b169",
"Result": {
  "Data": {
    "DealNameInstanceIdMapping": [
      {
        "DealName": "20230608002033899990000",
        "InstanceIdList": [
          "ckafka-mom5xxxx"
        ]
      }
    ],
    "DealNames": [
      "20230608002033899990000"
    ],
    "FlowId": 0,
    "InstanceId": "ckafka-mom5xxxx"
  },
  "ReturnCode": "0",
  "ReturnMessage": "ok[apply ok]"
}
```

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
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.NotAllowedEmpty	The parameter is required.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

CreateInstancePost

Last updated : 2023-07-05 15:57:47

1. API Description

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

This API is used to create a pay-as-you-go instance. It will be deprecated in future versions. We recommend that you use the `CreatePostPaidInstance` API instead. You can call this API via SDK or the TencentCloud API console to create a pay-as-you-go CKafka instance, which is an alternate option for making a purchase in the console.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateInstancePost.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceName	Yes	String	Instance name, which is a string of up to 64 characters. It can contain letters, digits, and hyphens (-) and must start with a letter.
BandWidth	Yes	Integer	Private network peak bandwidth of an instance in MB/sec. If you create a Standard Edition instance, pass in the corresponding peak bandwidth for the current instance specification. If you create a Pro Edition instance, configure

			the peak bandwidth, partition count, and other parameters as required by Pro Edition.
VpcId	No	String	ID of the VPC where the default access point of the created instance resides. This parameter is required as instances cannot be created in the classic network currently.
SubnetId	No	String	ID of the subnet where the default access point of the created instance resides.
InstanceType	No	Integer	Instance specification. This parameter is required for a Standard Edition instance but not for a Pro Edition instance. Valid values: <code>1</code> (Small), <code>2</code> (Standard), <code>3</code> (Advanced), <code>4</code> (Large), <code>5</code> (Xlarge L1), <code>6</code> (Xlarge L2), <code>7</code> (Xlarge L3), <code>8</code> (Xlarge L4),
MsgRetentionTime	No	Integer	The maximum instance log retention period in minutes by default. If this parameter is left empty, the default retention period is 1,440 minutes (1 day) to 30 days. If the message retention period of the topic is explicitly set, it will prevail.
ClusterId	No	Integer	Cluster ID, which can be selected when you create an instance. You don't need to pass in this parameter if the cluster where the instance resides is not specified.
KafkaVersion	No	String	Instance version. Valid values: <code>0.10.2</code> , <code>1.1.1</code> , <code>2.4.2</code> , and <code>2.8.1</code> .
SpecificationsType	No	String	Instance type. Valid values: <code>standard</code> (Standard Edition), <code>profession</code> (Pro Edition)
DiskType	No	String	Instance disk type. Valid values: <code>CLOUD_BASIC</code> (Premium Cloud Storage), <code>CLOUD_SSD</code> (SSD). If this parameter is left empty, the default value <code>CLOUD_BASIC</code> will be used.
DiskSize	No	Integer	Instance disk size, which must meet the requirement of the instance's specification.
Partition	No	Integer	The maximum number of partitions of the instance, which must meet the requirement of the instance's specification.
TopicNum	No	Integer	The maximum number of topics of the instance, which must meet the requirement of the instance's specification.
ZonId	No	Integer	AZ of the instance. When a multi-AZ instance is created, the value of this parameter is the AZ ID of the subnet where

			the instance's default access point resides.
MultiZoneFlag	No	Boolean	Whether the current instance is a multi-AZ instance
Zonelds.N	No	Array of Integer	This parameter indicates the list of AZ IDs when the instance is deployed in multiple AZs. Note that <code>ZoneId</code> must be included in the array of this parameter.
InstanceNum	No	Integer	The number of purchased instances. Default value: <code>1</code> . This parameter is optional. If it is passed in, multiple instances will be created, with their names being <code>instanceName</code> plus different suffixes.
PublicNetworkMonthly	No	Integer	Public network bandwidth in Mbps. The 3 Mbps of free bandwidth is not included here by default. For example, if you need 3 Mbps of public network bandwidth, pass in <code>0</code> ; if you need 6 Mbps, pass in <code>3</code> . The value must be an integer multiple of 3.

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned 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 Pro Edition instance

This example shows you how to create a Pro Edition instance, with the peak bandwidth being 20 MB/sec and disk capacity being 200 GB.

Input Example

```
POST / HTTP/1.1Host: ckafka.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreateInstancePost<Common request parameters>{ "InstanceName": "test45", "VpcId": "vpc-xxxxxxx", "SubnetId": "subnet-xxxxxxx", "KafkaVersion": "2.4.2",
```

```
"SpecificationsType": "profession", "DiskType": "CLOUD_BASIC", "BandWidth": 20,
"DiskSize": 200, "Partition": 400, "TopicNum": 200, "ZoneId": 450001}
```

Output Example

```
{
  "Response": {
    "RequestId": "9432af9d-8c3e-4474-b5eb-0f5298dbb6e5",
    "Result": {
      "Data": {
        "FlowId": 0
      },
      "ReturnCode": "0",
      "ReturnMessage": "ok[apply ok]"
    }
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.NotAllowedEmpty	The parameter is required.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeInstances

Last updated : 2023-07-05 15:57:46

1. API Description

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

This API is used to get the list of CKafka instances under a user account.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeInstances.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	No	String	(Filter) filter by instance ID
SearchWord	No	String	(Filter) filter by instance name. Fuzzy search is supported
Status.N	No	Array of Integer	(Filter) instance status. 0: creating, 1: running, 2: deleting. If this parameter is left empty, all instances will be returned by default
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 100.
TagKey	No	String	Tag key value (this field has been deprecated).
VpcId	No	String	VPC ID.

3. Output Parameters

Parameter Name	Type	Description
Result	InstanceResponse	Returned result
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

```
https://ckafka.tencentcloudapi.com/?Action=DescribeInstances
&InstanceId=instance-will-s
&SearchWord=tre
&Offset=0
&Limit=10
&Status.0=0
&Status.1=1
&Status.2=2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 1,
      "InstanceList": [
        {
          "InstanceId": "instance-will-s",
          "InstanceName": "treTest",
```

```
"IfCommunity": true,
"Status": 1
},
"RequestId": "31740399-5d06-404b-a4b5-3652e21c8a1d"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.

InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DeleteInstancePre

Last updated : 2023-03-22 17:06:23

1. API Description

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

This API is used to delete a monthly subscribed (prepaid) 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: DeleteInstancePre.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description
Result	CreateInstancePreResp	Returned result

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

4. Example

Example1 Deleting a monthly subscribed (prepaid) instance

This example shows you how to delete a monthly subscribed (prepaid) instance.

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DeleteInstancePre
&InstanceId=ckafka-xxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "DeleteRouteTimestamp": "xx",
      "ReturnMessage": "xx",
      "ReturnCode": "xx",
      "Data": {
        "InstanceId": "xx",
        "FlowId": 0,
        "DealNames": [
          "1111111111"
        ]
      }
    },
    "RequestId": "xx"
  }
}
```

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
FailedOperation	Operation failed.
UnsupportedOperation	Unsupported operation.

DescribeGroupInfo

Last updated : 2023-07-05 15:57:47

1. API Description

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

This API is used to get consumer group information.

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: DescribeGroupInfo.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Instanceld	Yes	String	(Filter) filter by instance ID.
GroupList.N	Yes	Array of String	Kafka consumer group (<code>Consumer-group</code>), which is an array in the format of <code>GroupList.0=xxx&GroupList.1=yyy</code> .

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Result	Array of GroupInfoResponse	Returned 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 Getting consumer group information

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeGroupInfo
&InstanceId=xxxx
&GroupList.0=xx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": [
      {
        "ErrorCode": "0",
        "State": "Stable",
        "ProtocolType": "consumer",
        "Protocol": "range",
        "Members": [
          {
            "MemberId": "consumer-1-/10.53.88.65-2018-08-10 10:17:19:639-88206ef1-9248-43a0-9ff4-e22c3ab21e92",
            "ClientId": "consumer-1",
            "ClientHost": "/10.53.88.65",
            "Assignment": {
              "Version": 0,
              "Topics": [
                {
                  "Topic": "test",
                  "Partitions": [
                    0
                  ]
                }
              ]
            }
          }
        ]
      }
    ]
  }
}
```

```
]
}
]
}
}
],
"Group": "perf-consumer-97910"
}
],
"RequestId": "8e9b234e-0c3e-4340-9733-adbd05879b10"
}
}
```

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
FailedOperation	Operation failed.

InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeGroupOffsets

Last updated : 2023-07-05 15:57:46

1. API Description

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

This API is used to get the consumer group offset.

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: DescribeGroupOffsets.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Instanceld	Yes	String	(Filter) filter by instance ID
Group	Yes	String	Kafka consumer group
Topics.N	No	Array of String	Array of the names of topics subscribed to by a group. If there is no such array, this parameter means the information of all topics in the specified group
SearchWord	No	String	Fuzzy match by <code>topicName</code>
Offset	No	Integer	Offset position of this query. Default value: 0

Limit	No	Integer	Maximum number of results to be returned in this request. Default value: 50. Maximum value: 50
-------	----	---------	--

3. Output Parameters

Parameter Name	Type	Description
Result	GroupOffsetResponse	Returned result object
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting consumer group offsets

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeGroupOffsets
&InstanceId=10
&Group="group"
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 1,
      "TopicList": [
        {
          "Topic": "test",
          "Partitions": [
            {
              "Partition": 0,
              "Offset": 22689638,
              "Metadata": "",
              "ErrorCode": 0,
              "LogEndOffset": 207927929,
              "Lag": 185238291
            }
          ]
        }
      ]
    }
  }
}
```

```
}  
]  
}  
]  
},  
"RequestId": "fd9afa97-cc0f-4ea7-9da8-63914a0877e1"  
}  
}
```

5. Developer Resources

SDK

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

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for 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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.

InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeInstanceAttributes

Last updated : 2023-07-05 15:57:46

1. API Description

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

This API is used to get instance attributes.

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: DescribeInstanceAttributes.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description

Result	InstanceAttributesResponse	Returned result object of instance attributes
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting instance attributes

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeInstanceAttributes
&InstanceId=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "MsgRetentionTime": 1440,
      "DeleteRouteTimestamp": "xx",
      "Version": "xx",
      "Config": {
        "DefaultNumPartitions": 0,
        "AutoCreateTopicsEnable": true,
        "DefaultReplicationFactor": 2
      },
      "RemainingPartitions": 0,
      "Status": 1,
      "CreatedTopics": 0,
      "VpcId": "xx",
      "Tags": [
        {
          "TagKey": "xx",
          "TagValue": "xx"
        }
      ],
      "InstanceId": "xx",
      "Vip": "xx",
      "SubnetId": "xx",
      "InstanceType": "xx",
      "RemainderTopics": 17,
      "MaxConnection": 1,
    }
  }
}
```

```
"PublicNetwork": 48000,
"Healthy": 1,
"ZoneId": 100003,
"Cvm": 0,
"DiskSize": 120000,
"HealthyMessage": "xx",
"RemainderPartitions": 45,
"InstanceName": "xx",
"CreatedPartitions": 0,
"Features": [
  "xx"
],
"ZoneIds": [
  0
],
"ExpireTime": 1,
"Bandwidth": 48000,
"MaxGroupNum": 0,
"RetentionTimeConfig": {
  "StepForwardPercentage": 10,
  "DiskQuotaPercentage": 90,
  "Enable": 0,
  "BottomRetention": 360
},
"DynamicDiskConfig": {
  "Enable": 1,
  "DiskQuotaPercentage": 30,
  "StepForwardPercentage": 15,
  "MaxDiskSpace": 1000
},
"Vport": "xx",
"CreateTime": 1,
"VipList": [
  {
    "Vip": "xx",
    "Vport": "xx"
  }
],
"RemainingTopics": 0
},
"RequestId": "xx"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.

InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeInstancesDetail

Last updated : 2023-03-22 17:06:22

1. API Description

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

This API is used to get instance list details under a user account.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeInstancesDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	No	String	(Filter) filter by instance ID
SearchWord	No	String	Filter by instance name, instance ID, AZ, VPC ID, or subnet ID. Fuzzy query is supported.
Status.N	No	Array of Integer	(Filter) instance status. 0: creating, 1: running, 2: deleting. If this parameter is left empty, all instances will be returned by default
Offset	No	Integer	Offset. If this parameter is left empty, <code>0</code> will be used by default.

Limit	No	Integer	Number of returned results. If this parameter is left empty, <code>10</code> will be used by default. The maximum value is <code>20</code> .
TagKey	No	String	Tag key match.
Filters.N	No	Array of Filter	Filter. Valid values of <code>filter.Name</code> include <code>Ip</code> , <code>VpcId</code> , <code>SubNetId</code> , <code>InstanceType</code> , and <code>InstanceId</code> . Up to 10 values can be passed for <code>filter.Values</code> .
InstanceIds	No	String	This parameter has been deprecated and replaced with <code>InstanceIdList</code> .
InstanceIdList.N	No	Array of String	Filter by instance ID.
TagList.N	No	Array of Tag	Filter instances by a set of tags

3. Output Parameters

Parameter Name	Type	Description
Result	InstanceDetailResponse	Returned result object of instance details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining instance list details

1

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeInstancesDetail
&InstanceId=instance-will-s
&SearchWord=tre
&Offset=0
&Limit=10
```

```
&Status.0=0
&Status.1=1
&Status.2=2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 0,
      "InstanceList": [
        {
          "InstanceId": "xx",
          "InstanceName": "xx",
          "Vip": "xx",
          "Vport": "xx",
          "VipList": [
            {
              "Vip": "xx",
              "Vport": "xx"
            }
          ],
          "Status": 0,
          "Bandwidth": 0,
          "DiskSize": 0,
          "ZoneId": 0,
          "VpcId": "xx",
          "SubnetId": "xx",
          "RenewFlag": 0,
          "Healthy": 0,
          "HealthyMessage": "xx",
          "CreateTime": 0,
          "ExpireTime": 0,
          "IsInternal": 0,
          "TopicNum": 0,
          "Tags": [
            {
              "TagKey": "xx",
              "TagValue": "xx"
            }
          ],
          "Version": "xx",
          "ZoneIds": [
            0
          ],
        }
      ],
    }
  }
}
```



```
"Cvm": 0,
"InstanceType": "xx",
"DiskType": "xx",
"MaxTopicNumber": 0,
"MaxPartitionNumber": 0,
"RebalanceTime": "xx",
"PartitionNumber": 1,
"PublicNetworkChargeType": "xx",
"PublicNetwork": 0,
"ClusterType": "xx",
"Features": [
  "xx"
]
},
"RequestId": "xx"
}
```

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](#)
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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.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

InquireCkafkaPrice

Last updated : 2023-07-05 15:57:46

1. API Description

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

This API is used to purchase a CKafka instance or query the instance renewal price.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InquireCkafkaPrice.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceType	Yes	String	<code>standard</code> : Standard Edition; <code>profession</code> : Pro Edition
InstanceChargeParam	No	InstanceChargeParam	Billing mode for instance purchase/renewal. If this parameter is left empty when you purchase an instance, the fees for one month under

			the monthly subscription mode will be displayed by default.
InstanceNum	No	Integer	The number of instances to be purchased or renewed. If this parameter is left empty, the default value is <code>1</code> .
Bandwidth	No	Integer	Private network bandwidth in MB/sec, which is required when you purchase an instance.
InquiryDiskParam	No	InquiryDiskParam	Disk type and size, which is required when you purchase an instance.
MessageRetention	No	Integer	Message retention period in hours, which is required when you purchase an instance.
Topic	No	Integer	The number of instance topics to be purchased, which is required when you purchase an instance.
Partition	No	Integer	The number of instance partitions to be purchased, which is required when you purchase an instance.
Zonelds.N	No	Array of Integer	The region for instance purchase, which can be obtained via the <code>DescribeCkafkaZone</code> API.
CategoryAction	No	String	Operation type flag. <code>purchase</code> : Making new purchases; <code>renew</code> : Renewing an instance. The default value is <code>purchase</code> if this parameter is left empty.
BillType	No	String	This field is not required.
PublicNetworkParam	No	InquiryPublicNetworkParam	Billing mode for public network bandwidth, which is required when you purchase public network bandwidth. Currently, public network bandwidth is only supported for Pro Edition.
InstanceId	No	String	ID of the instance to be renewed, which is required when you renew an

			instance.
--	--	--	-----------

3. Output Parameters

Parameter Name	Type	Description
Result	InquireCkafkaPriceResp	Output parameters
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the price of a CKafka instance

Input Example

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

{
  "Partition": 40,
  "InstanceNum": 1,
  "InquiryDiskParam": {
    "DiskSize": 500,
    "DiskType": "SSD"
  },
  "ZoneIds": [
    100001
  ],
  "Topic": 30,
  "Bandwidth": 40,
  "MessageRetention": 4,
  "PublicNetworkParam": {
    "PublicNetworkChargeType": "BANDWIDTH_PREPAID",
    "PublicNetworkMonthly": 10
  },
  "InstanceChargeParam": {
```

```
"InstanceChargePeriod": 1,  
"InstanceChargeType": "PREPAID"  
},  
"InstanceType": "profession",  
"CategoryAction": "purchase"  
}
```

Output Example

```
{  
  "Response": {  
    "Result": {  
      "InstancePrice": {  
        "DiscountPrice": 0.0,  
        "GoodsNum": 0,  
        "TimeSpan": 0,  
        "DetailPrices": {  
          "TopicPrice": {  
            "DiscountPrice": 0.0,  
            "Value": 0,  
            "Discount": 0.0,  
            "OriginalPrice": 0.0,  
            "UnitPriceDiscount": 0.0,  
            "UnitPrice": 0.0  
          },  
          "PartitionPrice": {  
            "DiscountPrice": 0.0,  
            "Value": 0,  
            "Discount": 0.0,  
            "OriginalPrice": 0.0,  
            "UnitPriceDiscount": 0.0,  
            "UnitPrice": 0.0  
          },  
          "BandwidthPrice": {  
            "DiscountPrice": 0.0,  
            "Value": 0,  
            "Discount": 0.0,  
            "OriginalPrice": 0.0,  
            "UnitPriceDiscount": 0.0,  
            "UnitPrice": 0.0  
          }  
        },  
        "Discount": 0.0,  
        "OriginalPrice": 0.0,  
        "TimeUnit": "xx",  
        "UnitPriceDiscount": 0.0,  
      }  
    }  
  }  
}
```

```
"Currency": "xx",
"UnitPrice": 0.0
},
"PublicNetworkBandwidthPrice": {
"DiscountPrice": 0.0,
"GoodsNum": 0,
"TimeSpan": 0,
"DetailPrices": {},
"Value": 0,
"Discount": 0.0,
"OriginalPrice": 0.0,
"TimeUnit": "xx",
"UnitPriceDiscount": 0.0,
"Currency": "xx",
"UnitPrice": 0.0
}
},
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
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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	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter

ModifyGroupOffsets

Last updated : 2023-07-05 15:57:45

1. API Description

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

This API is used to set the consumer group (Groups) offset.

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: ModifyGroupOffsets.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Kafka instance ID
Group	Yes	String	Kafka consumer group
Strategy	Yes	Integer	Offset resetting policy. Meanings of the input parameters: 0: equivalent to the <code>shift-by</code> parameter, which indicates to shift the offset forward or backward by the value of the <code>shift</code> . 1: equivalent to <code>by-duration</code> , <code>to-datetime</code> , <code>to-earliest</code> , or <code>to-latest</code> , which indicates to move the offset

			to the specified timestamp. 2: equivalent to <code>to-offset</code> , which indicates to move the offset to the specified offset position
Topics.N	No	Array of String	Indicates the topics to be reset. If this parameter is left empty, all topics will be reset
Shift	No	Integer	When <code>strategy</code> is 0, this field is required. If it is above zero, the offset will be shifted backward by the value of the <code>shift</code> . If it is below zero, the offset will be shifted forward by the value of the <code>shift</code> . After a correct reset, the new offset should be (old_offset + shift). Note that if the new offset is smaller than the <code>earliest</code> parameter of the partition, it will be set to <code>earliest</code> , and if it is greater than the <code>latest</code> parameter of the partition, it will be set to <code>latest</code>
ShiftTimestamp	No	Integer	Unit: ms. When <code>strategy</code> is 1, this field is required, where -2 indicates to reset the offset to the initial position, -1 indicates to reset to the latest position (equivalent to emptying), and other values represent the specified time, i.e., the offset of the topic at the specified time will be obtained and then reset. Note that if there is no message at the specified time, the last offset will be obtained
Offset	No	Integer	Position of the offset that needs to be reset. When <code>strategy</code> is 2, this field is required
Partitions.N	No	Array of Integer	List of partitions that need to be reset. If the topics parameter is not specified, reset partitions in the corresponding partition list of all topics. If the topics parameter is specified, reset partitions of the corresponding partition list of the specified topic list.

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting consumer group offsets

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=ModifyGroupOffsets
&InstanceId=10
&Group="group"
&Strategy=0
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok"
    },
    "RequestId": "ae362db8-81f6-4441-b0cc-1f6ffa31127e"
  }
}
```

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.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

ModifyInstanceAttributes

Last updated : 2023-07-05 15:57:45

1. API Description

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

This API is used to set instance attributes.

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: ModifyInstanceAttributes.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
MsgRetentionTime	No	Integer	Maximum retention period in minutes for instance log, which can be up to 30 days. 0 indicates not to enable the log retention period policy

InstanceName	No	String	Instance name string of up to 64 characters, which must begin with a letter and can contain letters, digits, and dashes (-)
Config	No	ModifyInstanceAttributesConfig	Instance configuration
DynamicRetentionConfig	No	DynamicRetentionTime	Dynamic message retention policy configuration
RebalanceTime	No	Integer	Modification of the rebalancing time after upgrade
PublicNetwork	No	Integer	Public network bandwidth
DynamicDiskConfig	No	DynamicDiskConfig	Dynamic disk expansion policy configuration.
MaxMessageByte	No	Integer	The size of a single message in bytes at the instance level.

3. Output Parameters

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting instance attributes

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=ModifyInstanceAttributes
&InstanceId=10
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnCode": "0",
      "ReturnMessage": "ok[no param set]"
    },
    "RequestId": "dfc46e62-73d6-4b6b-9cd8-4512259888f5"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

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

InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

ModifyInstancePre

Last updated : 2023-07-05 15:57:45

1. API Description

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

This API is used to change the configurations of a prepaid instance, such as disk capacity and bandwidth.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyInstancePre.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance name.
DiskSize	Yes	Integer	Estimated disk capacity, which can be increased by increment.
BandWidth	Yes	Integer	Estimated bandwidth, which can be increased by increment.
Partition	No	Integer	Estimated partition count, which can be increased by increment.

3. Output Parameters

Parameter Name	Type	Description
Result	CreateInstancePreResp	Response structure of modifying the configurations of a prepaid instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Changing the configurations of a monthly subscribed (prepaid) instance

Input Example

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

{
  "InstanceId": "ckafka-xxxx",
  "BandWidth": "40",
  "DiskSize": "600"
}
```

Output Example

```
{
  "Response": {
    "Result": {
      "DeleteRouteTimestamp": "xx",
      "ReturnCode": "0",
      "ReturnMessage": "ok",
      "Data": {
        "FlowId": 0,
        "InstanceId": "ckafka-xxxx",
        "DealNames": [
          "1111111111"
        ]
      }
    }
  },
}
```

```
"RequestId": "1ba4ac83-1e9e-497b-b3e1-4c10872a4068"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.NotAllowedEmpty	The parameter is required.
InvalidParameterValue.RepetitionValue	The parameter already exists.

InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.OssReject	Oss rejected the operation.

Route APIs

DescribeTaskStatus

Last updated : 2023-07-05 15:57:43

1. API Description

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

This API is used to query the task status.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTaskStatus.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FlowId	Yes	Integer	Unique task ID

3. Output Parameters

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

Result	TaskStatusResponse	Returned result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the task status

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeTaskStatus&FlowId=123<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "Status": 0
    },
    "RequestId": "ca7d6645-e33b-436c-8c83-b2a1229a57fa"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DeleteRoute

Last updated : 2023-07-05 15:57:43

1. API Description

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

This API is used to delete a route.

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: DeleteRoute.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Unique instance ID.
RouteId	Yes	Integer	Route ID.
CallerAppId	No	Integer	AppId of the caller.
DeleteRouteTime	No	String	The time when a route was deleted.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Result	JgwOperateResponse	Returned result.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a route

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DeleteRoute
&InstanceId=xxx
&RouteId=1
&CallerAppid=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "ReturnMessage": "xx",
      "ReturnCode": "xx",
      "Data": {
        "FlowId": 0
      }
    },
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.

UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeRoute

Last updated : 2023-07-05 15:57:43

1. API Description

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

This API is used to view route information.

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeRoute.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Unique instance ID
RouteId	No	Integer	Route ID

3. Output Parameters

Parameter Name	Type	Description
Result	RouteResponse	Returned result set of route information

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

4. Example

Example1 Querying the routing information

This example shows you how to query the routing information.

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeRoute&InstanceId=xxx<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "Routers": [
        {
          "AccessType": 0,
          "RouteId": 0,
          "VipType": 0,
          "VipList": [
            {
              "Vip": "1.1.1.1",
              "Vport": "8080"
            }
          ],
          "Domain": "abc",
          "DomainPort": 0,
          "DeleteTimestamp": "abc"
        }
      ],
      "RequestId": "abc"
    }
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.

UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

Other APIs

DeleteRouteTriggerTime

Last updated : 2023-07-05 15:57:45

1. API Description

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

This API is used to modify the delayed trigger time of route deletion.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteRouteTriggerTime.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
DelayTime	Yes	String	Modification time.

3. Output Parameters

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

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

4. Example

Example1 Modifying the route deletion trigger time

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DeleteRouteTriggerTime
&InstanceId='ckafka-xxx'
&DelayTime='2020-08-21 11:15:54'
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "91b6b112-7f0a-4e18-b353-5202bcafd2c2"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	DryRun operation, which means the DryRun parameter is passed in yet the request will still be successful.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.

DescribeAppInfo

Last updated : 2023-07-05 15:57:44

1. API Description

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

This API is used to query the user list.

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAppInfo.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Offset	No	Integer	Offset position
Limit	No	Integer	Maximum number of users to be queried in this request. Maximum value: 50. Default value: 50

3. Output Parameters

Parameter Name	Type	Description

Result	AppIdResponse	Returned list of eligible AppId
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the user list

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeAppInfo
&Limit=10
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 11,
      "AppIdList": [
        1251000011,
        1255426940,
        251000873,
        251000691,
        251006545,
        1251762227,
        1256134262,
        251006131,
        1251006288,
        1251006373
      ]
    },
    "RequestId": "8d7551b2-651e-4f47-80bc-13a478fda732"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.

UnsupportedOperation.OssReject	Oss rejected the operation.
--------------------------------	-----------------------------

DescribeCkafkaZone

Last updated : 2023-07-05 15:57:44

1. API Description

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

This API is used to view the AZ list of Ckafka.

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: DescribeCkafkaZone.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Cdclid	No	String	Cloud Dedicated Cluster (CDC) business parameter.

3. Output Parameters

Parameter Name	Type	Description
Result	ZoneResponse	Returned results for the query

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

4. Example

Example1 Viewing the AZ list

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "Result": {
      "ZoneList": [
        {
          "ZoneId": "300001",
          "IsInternalApp": 2,
          "AppId": 1255613487,
          "Flag": true,
          "ZoneName": "Hong Kong Zone 1",
          "ZoneStatus": 4,
          "Exflag": "1",
          "SoldOut": "false",
          "SalesInfo": [
            {
              "Platform": "xx",
              "Flag": true,
              "Version": "xx",
              "SoldOut": true
            }
          ]
        },
        {
          "ZoneId": "300002",
          "IsInternalApp": 2,
```



```
"AppId": 1255613487,
"Flag": false,
"ZoneName": "Hong Kong Zone 2",
"ZoneStatus": 4,
"Exflag": "1",
"SoldOut": "false",
"SalesInfo": [
{
"Platform": "xx",
"Flag": true,
"Version": "xx",
"SoldOut": true
}
],
{
"ZoneId": "300003",
"IsInternalApp": 2,
"AppId": 1255613487,
"Flag": false,
"ZoneName": "Hong Kong Zone 3",
"ZoneStatus": 4,
"Exflag": "1",
"SalesInfo": [
{
"Platform": "xx",
"Flag": true,
"Version": "xx",
"SoldOut": true
}
],
"SoldOut": "true"
},
"MaxBuyInstanceNum": 20,
"MaxBandwidth": 1200,
"UnitPrice": {
"RealTotalCost": 2.376,
"TotalCost": 0
},
"MessagePrice": {
"RealTotalCost": 0.18,
"TotalCost": 0
},
"ClusterInfo": [],
"Standard": "{}",
"StandardS2": "{\\"InstanceTypeConfigSet\\":[{\\"Type\\":\\"sv_ckafka_instance_s2_1\\",
```

```

\ "Desc\": \"Small\", \ "Bandwidth\": 320, \ "DiskSize\": 500, \ "Pid\": 15127, \ "MaximumInst
ancePartition\": 100, \ "MaximumInstanceTopic\": 40}, { \ "Type\": \"sv_ckafka_instance_s
2_2\", \ "Desc\": \"Standard\", \ "Bandwidth\": 800, \ "DiskSize\": 1500, \ "Pid\": 15128, \ "M
aximumInstancePartition\": 160, \ "MaximumInstanceTopic\": 80}, { \ "Type\": \"sv_ckafka_
instance_s2_3\", \ "Desc\": \"Advanced\", \ "Bandwidth\": 1200, \ "DiskSize\": 3000, \ "Pid
\": 15129, \ "MaximumInstancePartition\": 200, \ "MaximumInstanceTopic\": 100}, { \ "Type\
\": \"sv_ckafka_instance_s2_4\", \ "Desc\": \"Large\", \ "Bandwidth\": 1600, \ "DiskSize\": 4
500, \ "Pid\": 15130, \ "MaximumInstancePartition\": 300, \ "MaximumInstanceTopic\": 150},
{ \ "Type\": \"sv_ckafka_instance_s2_5\", \ "Desc\": \"Xlarge 1\", \ "Bandwidth\": 2400, \ "
DiskSize\": 6000, \ "Pid\": 15131, \ "MaximumInstancePartition\": 500, \ "MaximumInstanceT
opic\": 250}, { \ "Type\": \"sv_ckafka_instance_s2_6\", \ "Desc\": \"Xlarge 2\", \ "Bandwid
th\": 3200, \ "DiskSize\": 8000, \ "Pid\": 15132, \ "MaximumInstancePartition\": 600, \ "Maxi
mumInstanceTopic\": 300}, { \ "Type\": \"sv_ckafka_instance_s2_7\", \ "Desc\": \"Xlarge 3
\", \ "Bandwidth\": 4800, \ "DiskSize\": 10000, \ "Pid\": 15133, \ "MaximumInstancePartition
\": 800, \ "MaximumInstanceTopic\": 400}, { \ "Type\": \"sv_ckafka_instance_s2_8\", \ "Desc
\": \"Xlarge 4\", \ "Bandwidth\": 7200, \ "DiskSize\": 12000, \ "Pid\": 15134, \ "MaximumInst
ancePartition\": 1000, \ "MaximumInstanceTopic\": 500}], \ "maximumTopicPartition\": 100
0, \ "maximumInstanceConsumerGroup\": 0}\n",
"Profession": { \ "BasicEdition\": { \ "Bandwidth\": { \ "Maximum\": 1200, \ "Minimal\": 40,
\ "Step\": 20}, \ "DiskCapacity\": { \ "40\": { \ "Maximum\": 5000, \ "Minimal\": 500, \ "Step\":
100}, \ "120\": { \ "Maximum\": 10000, \ "Minimal\": 1000, \ "Step\": 100}, \ "320\": { \ "Maximum
\": 30000, \ "Minimal\": 3000, \ "Step\": 100}, \ "620\": { \ "Maximum\": 54000, \ "Minimal\": 54
00, \ "Step\": 100}, \ "920\": { \ "Maximum\": 75000, \ "Minimal\": 7500, \ "Step\": 100}}, \ "Dis
kTypes\": [ \ "SSD\", \ "CLOUD_BASIC\"], \ "MessageRetention\": { \ "Maximum\": 2160, \ "Minim
al\": 24, \ "Step\": 1}, \ "Partition\": { \ "40\": { \ "Maximum\": 1000, \ "Minimal\": 500, \ "Ste
p\": 100}, \ "60\": { \ "Maximum\": 1200, \ "Minimal\": 600, \ "Step\": 100}, \ "120\": { \ "Maximu
m\": 1600, \ "Minimal\": 800, \ "Step\": 100}, \ "180\": { \ "Maximum\": 2000, \ "Minimal\": 100
0, \ "Step\": 100}, \ "240\": { \ "Maximum\": 2400, \ "Minimal\": 1200, \ "Step\": 100}, \ "320\":
{ \ "Maximum\": 2800, \ "Minimal\": 1400, \ "Step\": 100}, \ "400\": { \ "Maximum\": 3200, \ "Mini
mal\": 1600, \ "Step\": 100}, \ "500\": { \ "Maximum\": 3600, \ "Minimal\": 1800, \ "Step\": 10
0}, \ "600\": { \ "Maximum\": 4000, \ "Minimal\": 2000, \ "Step\": 100}, \ "800\": { \ "Maximum\":
4500, \ "Minimal\": 2400, \ "Step\": 100}, \ "1000\": { \ "Maximum\": 5000, \ "Minimal\": 2800,
\ "Step\": 100}, \ "1200\": { \ "Maximum\": 5500, \ "Minimal\": 3200, \ "Step\": 100}}, \ "Topic
\": { \ "40\": { \ "Maximum\": 100, \ "Minimal\": 50, \ "Step\": 1}, \ "60\": { \ "Maximum\": 120, \
Minimal\": 60, \ "Step\": 1}, \ "120\": { \ "Maximum\": 160, \ "Minimal\": 80, \ "Step\": 1}, \ "18
0\": { \ "Maximum\": 200, \ "Minimal\": 100, \ "Step\": 1}, \ "240\": { \ "Maximum\": 240, \ "Minim
al\": 120, \ "Step\": 1}, \ "320\": { \ "Maximum\": 280, \ "Minimal\": 160, \ "Step\": 1}, \ "400\
": { \ "Maximum\": 320, \ "Minimal\": 200, \ "Step\": 1}, \ "500\": { \ "Maximum\": 360, \ "Minimal
\": 240, \ "Step\": 1}, \ "600\": { \ "Maximum\": 400, \ "Minimal\": 280, \ "Step\": 1}, \ "800\": {
\ "Maximum\": 450, \ "Minimal\": 320, \ "Step\": 1}, \ "1000\": { \ "Maximum\": 500, \ "Minimal\
": 360, \ "Step\": 1}, \ "1200\": { \ "Maximum\": 550, \ "Minimal\": 400, \ "Step\": 1}}}, \ "HighPe
rformanceEdition\": { \ "Bandwidth\": { \ "Maximum\": 3200, \ "Minimal\": 1600, \ "Step\": 40
0}, \ "DiskCapacity\": { \ "1600\": { \ "Maximum\": 120000, \ "Minimal\": 12000, \ "Step\": 10
0}, \ "2000\": { \ "Maximum\": 160000, \ "Minimal\": 16000, \ "Step\": 100}, \ "2400\": { \ "Maxim
um\": 200000, \ "Minimal\": 20000, \ "Step\": 100}, \ "2800\": { \ "Maximum\": 240000, \ "Minima
l\": 24000, \ "Step\": 100}, \ "3200\": { \ "Maximum\": 280000, \ "Minimal\": 28000, \ "Step\": 1
00}}, \ "DiskTypes\": [ \ "SSD\", \ "CLOUD_BASIC\"], \ "MessageRetention\": { \ "Maximum\": 21

```

```
60, \"Minimal\":24, \"Step\":1}, \"Partition\":{ \"1600\":{ \"Maximum\":6000, \"Minimal\":4000, \"Step\":100}, \"2000\":{ \"Maximum\":7000, \"Minimal\":4500, \"Step\":100}, \"2400\":{ \"Maximum\":8000, \"Minimal\":5000, \"Step\":100}, \"2800\":{ \"Maximum\":9000, \"Minimal\":5500, \"Step\":100}, \"3200\":{ \"Maximum\":10000, \"Minimal\":6000, \"Step\":100}}, \"Topic\":{ \"1600\":{ \"Maximum\":600, \"Minimal\":500, \"Step\":1}, \"2000\":{ \"Maximum\":700, \"Minimal\":600, \"Step\":1}, \"2400\":{ \"Maximum\":800, \"Minimal\":700, \"Step\":1}, \"2800\":{ \"Maximum\":900, \"Minimal\":800, \"Step\":1}, \"3200\":{ \"Maximum\":1000, \"Minimal\":900, \"Step\":1}}}, \"Physical\": \"{}\", \"PublicNetwork\": \"{}\", \"PublicNetworkLimit\": \"{}\" }, { \"RequestId\": \"4831a936-0a03-408e-9ffc-a813a11ad769\" }
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

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

FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeConsumerGroup

Last updated : 2023-07-05 15:57:44

1. API Description

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

This API is used to query consumer group information.

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: DescribeConsumerGroup.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	CKafka instance ID.
GroupName	No	String	Name of the group to be queried, which is optional.
TopicName	No	String	Name of the corresponding topic in the group to be queried, which is optional. If this parameter is specified but <code>group</code> is not specified, this parameter will be ignored.
Limit	No	Integer	Number of results to be returned in this request

Offset	No	Integer	Offset position
--------	----	---------	-----------------

3. Output Parameters

Parameter Name	Type	Description
Result	ConsumerGroupResponse	Returned consumer group information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Listing consumer groups

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeConsumerGroup
&InstanceId=10
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 2,
      "TopicList": [
        {
          "TopicId": "topic-g8ud11it",
          "TopicName": "connect-offset"
        }
      ],
      "GroupList": [
        {
          "ConsumerGroupName": "connect-cluster-1",
          "SubscribedInfo": []
        },
        {
          "ConsumerGroupName": "qcloud_tocos",
```

```
"SubscribedInfo": [  
  {  
    "TopicName": "connect-offset",  
    "PartitionOffset": [  
      {  
        "Partition": "0",  
        "Offset": 966186803  
      },  
      {  
        "Partition": "1",  
        "Offset": 968552882  
      },  
      {  
        "Partition": "2",  
        "Offset": 957792934  
      }  
    ]  
  }  
],  
"TotalPartition": 0,  
"PartitionListForMonitor": [],  
"TotalTopic": 1,  
"TopicListForMonitor": [  
  {  
    "TopicId": "topic-g8ud11it",  
    "TopicName": "connect-offset"  
  }  
],  
"GroupListForMonitor": [  
  {  
    "GroupName": "connect-cluster-1"  
  },  
  {  
    "GroupName": "qcloud_tocos"  
  }  
],  
"RequestId": "3c8a91a3-5921-4d7f-9fd9-6b4261cca363"  
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.

UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

DescribeGroup

Last updated : 2023-07-05 15:57:44

1. API Description

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

This API is used to enumerate consumer groups (simplified).

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: DescribeGroup.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
SearchWord	No	String	Search keyword
Offset	No	Integer	Offset
Limit	No	Integer	Maximum number of results to be returned

3. Output Parameters

Parameter Name	Type	Description
Result	GroupResponse	List 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 Enumerating consumer groups

Input Example

```
https://ckafka.tencentcloudapi.com/?Action=DescribeGroup
&InstanceId=xxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "TotalCount": 1,
      "GroupList": [
        {
          "Group": "qcloud_tocos",
          "Protocol": "consumer"
        }
      ]
    },
    "RequestId": "c931f394-7d72-4ad4-8d70-5a225708c762"
  }
}
```

5. Developer Resources

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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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.

UnsupportedOperation.OssReject	Oss rejected the operation.
--------------------------------	-----------------------------

DescribeRegion

Last updated : 2023-07-05 15:57:43

1. API Description

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

This API is used to enumerate regions, and can be called only in Guangzhou.

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: DescribeRegion.
Version	Yes	String	Common Params . The value used for this API: 2019-08-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Offset	No	Integer	The offset value
Limit	No	Integer	The maximum number of results returned
Business	No	String	Business field, which can be ignored.
Cdclid	No	String	CDC business field, which can be ignored.

3. Output Parameters

Parameter Name	Type	Description
Result	Array of Region	List of the returned results of enumerated regions Note: <code>null</code> may be returned for this field, 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 regions

Input Example

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

{
  "Business": "10"
}
```

Output Example

```
{
  "Response": {
    "Result": [
      {
        "RegionId": 8,
        "RegionName": "Beijing",
        "AreaName": "North China",
        "RegionCode": "bj",
        "RegionCodeV3": "ap-beijing"
      },
      {
        "RegionId": 16,
        "RegionName": "Chengdu",
        "AreaName": "Southwest China",
        "RegionCode": "cd",

```

```
"RegionCodeV3": "ap-chengdu"
},
{
  "RegionId": 19,
  "RegionName": "Chongqing",
  "AreaName": "Southwest China",
  "RegionCode": "cq",
  "RegionCodeV3": "ap-chongqing"
},
{
  "RegionId": 5,
  "RegionName": "Hong Kong (China)",
  "AreaName": "Southeast Asia",
  "RegionCode": "hk",
  "RegionCodeV3": "ap-hongkong"
},
{
  "RegionId": 9,
  "RegionName": "Singapore",
  "AreaName": "Southeast Asia",
  "RegionCode": "sg",
  "RegionCodeV3": "ap-singapore"
},
{
  "RegionId": 21,
  "RegionName": "Mumbai",
  "AreaName": "Asia Pacific",
  "RegionCode": "in",
  "RegionCodeV3": "ap-mumbai"
},
{
  "RegionId": 25,
  "RegionName": "Tokyo",
  "AreaName": "Asia Pacific",
  "RegionCode": "jp",
  "RegionCodeV3": "ap-tokyo"
},
{
  "RegionId": 6,
  "RegionName": "Toronto",
  "AreaName": "North America",
  "RegionCode": "ca",
  "RegionCodeV3": "na-toronto"
},
{
  "RegionId": 15,
  "RegionName": "Silicon Valley",
```



```
"AreaName": "West US",
"RegionCode": "usw",
"RegionCodeV3": "na-siliconvalley"
},
{
"RegionId": 22,
"RegionName": "Ashburn",
"AreaName": "East US",
"RegionCode": "use",
"RegionCodeV3": "na-ashburn"
}
],
"RequestId": "fe2ba3b1-90bb-425d-abd4-08a62d0c3686"
}
}
```

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	Invalid parameter.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.
InvalidParameterValue.ZoneNotSupport	The zone is not supported.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.

Data Types

Last updated : 2024-11-27 17:59:02

Acl

ACL object entity

Used by actions: DescribeACL.

Name	Type	Description
ResourceType	Integer	ACL resource type. 0: UNKNOWN, 1: ANY, 2: TOPIC, 3: GROUP, 4: CLUSTER, 5: TRANSACTIONAL_ID. Currently, only <code>TOPIC</code> is available,
ResourceName	String	Resource name, which is related to <code>resourceType</code> . For example, if <code>resourceType</code> is <code>TOPIC</code> , this field indicates the topic name; if <code>resourceType</code> is <code>GROUP</code> , this field indicates the group name
Principal	String	User list. The default value is <code>User:*</code> , which means that any user can access. The current user can only be one included in the user list Note: this field may return null, indicating that no valid values can be obtained.
Host	String	The default value is <code>*</code> , which means that any host can access. Currently, CKafka does not support the host as <code>*</code> , but the future product based on the open-source Kafka will directly support this Note: this field may return null, indicating that no valid values can be obtained.
Operation	Integer	ACL operation mode. 0: UNKNOWN, 1: ANY, 2: ALL, 3: READ, 4: WRITE, 5: CREATE, 6: DELETE, 7: ALTER, 8: DESCRIBE, 9: CLUSTER_ACTION, 10: DESCRIBE_CONFIGS, 11: ALTER_CONFIGS, 12: IDEMPOTEN_WRITE
PermissionType	Integer	Permission type. 0: UNKNOWN, 1: ANY, 2: DENY, 3: ALLOW

AclResponse

Set of returned ACL results

Used by actions: DescribeACL.

Name	Type	Description
TotalCount	Integer	Number of eligible data entries

AclList	Array of Acl	ACL list Note: this field may return null, indicating that no valid values can be obtained.
---------	------------------------------	--

AclRule

Output parameters of ACL rule list APIs

Used by actions: DescribeAclRule, DescribeTopicAttributes.

Name	Type	Description
RuleName	String	ACL rule name. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
InstanceId	String	Instance ID. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
PatternType	String	Matching type. Currently, only prefix match is supported. Enumerated value list: PREFIXED Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Pattern	String	Prefix value for prefix match. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
ResourceType	String	ACL resource type. Only "Topic" is supported. Enumerated value list: Topic. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
AclList	String	ACL information contained in the rule. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
CreateTimeStamp	String	Creation time of the rule. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
IsApplied	Integer	A parameter used to specify whether the preset ACL rule is applied to new topics. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

UpdateTimeStamp	String	Rule update time. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Comment	String	Remarks of the rule. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
TopicName	String	One of the corresponding topic names that is displayed. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
TopicCount	Integer	The number of topics that apply this ACL rule. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
PatternTypeTitle	String	Name of rule type. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

AcIRuleInfo

Four pieces of information of ACL rules: source IP address, destination IP address, source port, and destination port

Used by actions: BatchCreateAcl, CreateAclRule.

Name	Type	Required	Description
Operation	String	Yes	ACL operation types. Enumerated values: <code>All</code> (all operations), <code>Read</code> (read), <code>Write</code> (write).
PermissionType	String	Yes	Permission types: <code>Deny</code> , <code>Allow</code> .
Host	String	Yes	The default value is <code>*</code> , which means that any host can access the topic. CKafka currently does not support specifying a host value of <code>*</code> or an IP range.
Principal	String	Yes	The list of users allowed to access the topic. Default value: <code>User:*</code> , which means all users. The current user must be in the user list. Add the prefix <code>User:</code> before the user name (<code>User:A</code> , for example).

AcIRuleResp

Results returned by the `AclRuleList` API

Used by actions: DescribeAclRule.

Name	Type	Description
TotalCount	Integer	Total number of data entries
AclRuleList	Array of AclRule	ACL rule list Note: This field may return null, indicating that no valid values can be obtained.

AppIdResponse

`AppId` query result

Used by actions: DescribeAppInfo.

Name	Type	Description
TotalCount	Integer	Number of eligible <code>AppId</code>
AppIdList	Array of Integer	List of eligible <code>AppId</code> Note: this field may return null, indicating that no valid values can be obtained.

Assignment

Stores the information of partition assigned to this consumer

Used by actions: DescribeGroupInfo, DescribeTopicSubscribeGroup.

Name	Type	Description
Version	Integer	Assignment version information
Topics	Array of GroupInfoTopics	Topic information list Note: this field may return null, indicating that no valid values can be obtained.

BatchContent

Message content that can be sent in batches

Used by actions: SendMessage.

Name	Type	Required	Description
Body	String	Yes	Message body that is sent.
Key	String	No	Message sending key name.

BatchModifyTopicInfo

Topic parameters that can be modified in batches

Used by actions: BatchModifyTopicAttributes.

Name	Type	Required	Description
TopicName	String	Yes	Topic name.
PartitionNum	Integer	No	The number of partitions.
Note	String	No	Remarks.
ReplicaNum	Integer	No	Number of replicas.
CleanUpPolicy	String	No	Message deletion policy. Valid values: <code>delete</code> , <code>compact</code> .
MinInsyncReplicas	Integer	No	The minimum number of replicas specified by <code>min.insync.replicas</code> when the producer sets <code>request.required.acks</code> to <code>-1</code> .
UncleanLeaderElectionEnable	Boolean	No	Whether to allow a non-ISR replica to be the leader.
RetentionMs	Integer	No	Message retention period in topic dimension in milliseconds. Value range: 1 minute to 90 days.
RetentionBytes	Integer	No	Message retention size in topic dimension. Value range: 1 MB - 1024 GB.
SegmentMs	Integer	No	Segment rolling duration in milliseconds. Value range: 1-90 days.
MaxMessageBytes	Integer	No	Message size per batch. Value range: 1 KB - 12 MB.

BatchModifyTopicResultDTO

Results of the batch modified topic attributes

Used by actions: BatchModifyTopicAttributes.

Name	Type	Description
InstanceId	String	Instance ID. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
TopicName	String	Topic name. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ReturnCode	String	Status code. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Message	String	Message status.

ClusterInfo

Cluster information entity

Used by actions: DescribeCkafkaZone.

Name	Type	Description
ClusterId	Integer	Cluster ID
ClusterName	String	Cluster name
MaxDiskSize	Integer	The cluster's maximum disk capacity in GB Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
MaxBandWidth	Integer	The cluster's maximum bandwidth in MB/s Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
AvailableDiskSize	Integer	The cluster's available disk capacity in GB Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
AvailableBandWidth	Integer	The cluster's available bandwidth in MB/s Note: <code>null</code> may be returned for this field, indicating that no valid values

		can be obtained.
Zoneld	Integer	The AZ where the cluster resides Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Zonelds	Array of Integer	The AZ where the cluster nodes reside. If the cluster is a multi-AZ cluster, this field means multiple AZs where the cluster nodes reside. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

Config

Advanced configuration object

Used by actions: DescribeTopicAttributes, DescribeTopicDetail.

Name	Type	Description
Retention	Integer	Message retention period Note: this field may return null, indicating that no valid values can be obtained.
MinInsyncReplicas	Integer	Minimum number of sync replications Note: this field may return null, indicating that no valid values can be obtained.
CleanUpPolicy	String	Log cleanup mode. Default value: delete. delete: logs will be deleted by save time; compact: logs will be compressed by key; compact, delete: logs will be compressed by key and deleted by save time. Note: this field may return null, indicating that no valid values can be obtained.
SegmentMs	Integer	Segment rolling duration Note: this field may return null, indicating that no valid values can be obtained.
UncleanLeaderElectionEnable	Integer	0: false, 1: true. Note: this field may return null, indicating that no valid values can be obtained.
SegmentBytes	Integer	Number of bytes for segment rolling Note: this field may return null, indicating that no valid values can be obtained.

MaxMessageBytes	Integer	Maximum number of message bytes Note: this field may return null, indicating that no valid values can be obtained.
RetentionBytes	Integer	Message retention file size. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

ConsumerGroup

User group entity

Used by actions: DescribeConsumerGroup.

Name	Type	Description
ConsumerGroupName	String	User group name
SubscribedInfo	Array of SubscribedInfo	Subscribed message entity

ConsumerGroupResponse

Returned consumer group result entity

Used by actions: DescribeConsumerGroup.

Name	Type	Description
TotalCount	Integer	Number of eligible consumer groups
TopicList	Array of ConsumerGroupTopic	Topic list Note: this field may return null, indicating that no valid values can be obtained.
GroupList	Array of ConsumerGroup	Consumer group list Note: this field may return null, indicating that no valid values can be obtained.
TotalPartition	Integer	Total number of partitions Note: this field may return null, indicating that no valid values can be obtained.
PartitionListForMonitor	Array of Partition	List of monitored partitions

		Note: this field may return null, indicating that no valid values can be obtained.
TotalTopic	Integer	Total number of topics Note: this field may return null, indicating that no valid values can be obtained.
TopicListForMonitor	Array of ConsumerGroupTopic	List of monitored topics Note: this field may return null, indicating that no valid values can be obtained.
GroupListForMonitor	Array of Group	List of monitored groups Note: this field may return null, indicating that no valid values can be obtained.

ConsumerGroupTopic

Consumer group topic object

Used by actions: DescribeConsumerGroup.

Name	Type	Description
TopicId	String	Topic ID
TopicName	String	Topic name

ConsumerRecord

Message record

Used by actions: FetchMessageByOffset, FetchMessageListByOffset.

Name	Type	Description
Topic	String	Topic name
Partition	Integer	Partition ID
Offset	Integer	Offset
Key	String	Message key Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

Value	String	Message value Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Timestamp	Integer	Message timestamp Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Headers	String	Message headers Note: This field may return null, indicating that no valid values can be obtained.

CreateInstancePostData

Data structure returned by the pay-as-you-go instance creation API

Used by actions: CreatePostPaidInstance.

Name	Type	Description
FlowId	Integer	This parameter has a fixed value of 0 returned by <code>CreateInstancePre</code> . It is only used for backend data alignment and cannot be used as the query condition for <code>CheckTaskStatus</code> . Note: This field may return null, indicating that no valid values can be obtained.
DealNames	Array of String	List of order IDs Note: This field may return null, indicating that no valid values can be obtained.
InstanceId	String	Instance ID. When multiple instances are purchased, the ID of the first one is returned by default . Note: This field may return null, indicating that no valid values can be obtained.
DealNameInstanceIdMapping	Array of DealInstanceDTO	Mapping between orders and the purchased instances. Note: This field may return null, indicating that no valid values can be obtained.

CreateInstancePostResp

Data structure returned by pay-as-you-go instance APIs

Used by actions: CreatePostPaidInstance.

Name	Type	Description
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ReturnCode	String	Returned code. <code>0</code> indicates normal status while other codes indicate errors.
ReturnMessage	String	Message returned by the API. An error message will be returned if the API reports an error.
Data	CreateInstancePostData	Returned data. Note: This field may return null, indicating that no valid values can be obtained.

CreateInstancePreData

Data returned by the `CreateInstancePre` API.

Used by actions: `DeleteInstancePre`, `ModifyInstancePre`.

Name	Type	Description
FlowId	Integer	The value returned by <code>CreateInstancePre</code> is 0, which is fixed and cannot be used as the query condition of <code>CheckTaskStatus</code> . It is only used to ensure the consistency with the backend data structure. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
DealNames	Array of String	Order number list. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
InstanceId	String	Instance ID. When multiple instances are purchased, the ID of the first one is returned by default. Note: This field may return null, indicating that no valid values can be obtained.
DealNameInstanceIdMapping	Array of DealInstanceDTO	Mapping between orders and the purchased instances. Note: This field may return null, indicating that no valid values can be obtained.

CreateInstancePreResp

Data structure returned by monthly subscribed instance APIs

Used by actions: `DeleteInstancePre`, `ModifyInstancePre`.

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Name	Type	Description
ReturnCode	String	Returned code. 0: Normal; other values: Error.
ReturnMessage	String	The message indicating whether the operation is successful.
Data	CreateInstancePreData	Data returned by the operation. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

CreateTopicResp

Return for topic creation

Used by actions: CreateTopic.

Name	Type	Description
TopicId	String	Topic ID

DatahubTopicDTO

DataHub topic

Used by actions: DescribeDatahubTopics.

Name	Type	Description
Name	String	Name
TopicName	String	Topic name
TopicId	String	Topic ID
PartitionNum	Integer	The number of partitions
RetentionMs	Integer	Expiration time
Note	String	Remarks
Status	Integer	Status (<code>1</code> : In use; <code>2</code> : Deleting)

DatahubTopicResp

DataHub topic response

Used by actions: CreateDatahubTopic.

Name	Type	Description
TopicName	String	Topic name
TopicId	String	TopicId Note: This field may return null, indicating that no valid values can be obtained.

DealInstanceDTO

Mapping between orders and CKafka instances for monthly subscribed and pay-as-you-go instance APIs.

Used by actions: CreatePostPaidInstance, DeleteInstancePre, ModifyInstancePre.

Name	Type	Description
DealName	String	Order list. Note: This field may return null, indicating that no valid values can be obtained.
InstanceIdList	Array of String	ID list of the purchased CKafka instances corresponding to the order list. Note: This field may return null, indicating that no valid values can be obtained.

DescribeConnectInfoResultDTO

Topic connection information

Used by actions: DescribeTopicProduceConnection.

Name	Type	Description
IpAddr	String	IP address Note: This field may return null, indicating that no valid values can be obtained.
Time	String	Connection time Note: This field may return null, indicating that no valid values can be obtained.

IsUnSupportVersion	Boolean	Whether it is a supported version Note: This field may return null, indicating that no valid values can be obtained.
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DescribeDatahubTopicResp

DataHub topic details

Used by actions: DescribeDatahubTopic.

Name	Type	Description
Name	String	Name
TopicName	String	Topic name
TopicId	String	Topic ID
PartitionNum	Integer	The number of partitions
RetentionMs	Integer	Expiration time
Note	String	Remarks Note: This field may return null, indicating that no valid values can be obtained.
UserName	String	Username
Password	String	Password
Status	Integer	Status (1 : In use; 2 : Deleting)
Address	String	Service routing address Note: This field may return null, indicating that no valid values can be obtained.

DescribeDatahubTopicsResp

DataHub topic list

Used by actions: DescribeDatahubTopics.

Name	Type	Description
TotalCount	Integer	Total count

TopicList	Array of DatahubTopicDTO	Topic list Note: This field may return null, indicating that no valid values can be obtained.
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DescribeGroup

`DescribeGroup` response entity

Used by actions: DescribeGroup.

Name	Type	Description
Group	String	groupId
Protocol	String	Protocol used by the group.

DynamicDiskConfig

Dynamic disk expansion configuration

Used by actions: DescribeInstanceAttributes, ModifyInstanceAttributes.

Name	Type	Required	Description
Enable	Integer	No	Whether to enable dynamic disk expansion configuration. <code>0</code> : disable, <code>1</code> : enable. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
StepForwardPercentage	Integer	No	Percentage of dynamic disk expansion each time. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
DiskQuotaPercentage	Integer	No	Disk quota threshold (in percentage) for triggering the automatic disk expansion event. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
MaxDiskSpace	Integer	No	Max disk space in GB. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

DynamicRetentionTime

Dynamic message retention time configuration

Used by actions: DescribeInstanceAttributes, ModifyInstanceAttributes.

Name	Type	Required	Description
Enable	Integer	No	Whether the dynamic message retention time configuration is enabled. 0: disabled; 1: enabled Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
DiskQuotaPercentage	Integer	No	Disk quota threshold (in percentage) for triggering the message retention time change event Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
StepForwardPercentage	Integer	No	Percentage by which the message retention time is shortened each time Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
BottomRetention	Integer	No	Minimum retention time, in minutes Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

Filter

Query filter

Key-value pair filters for conditional filtering queries, such as filter ID, name, and status

- If there are multiple `Filter`, the relationship among them is logical `AND`.
- If there are multiple `Values` in the same `Filter`, the relationship among them is logical `OR`.

Used by actions: DescribeInstancesDetail.

Name	Type	Required	Description
Name	String	Yes	Field to be filtered.

Values	Array of String	Yes	Filter value of field.
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Group

Group entity

Used by actions: DescribeConsumerGroup.

Name	Type	Description
GroupName	String	Group name

GroupInfoMember

Consumer information

Used by actions: DescribeGroupInfo, DescribeTopicSubscribeGroup.

Name	Type	Description
MemberId	String	Unique ID generated for consumer in consumer group by coordinator
ClientId	String	<code>client.id</code> information by the client consumer SDK
ClientHost	String	Generally stores client IP address
Assignment	Assignment	Stores the information of partition assigned to this consumer

GroupInfoResponse

`GroupInfo` response data entity

Used by actions: DescribeGroupInfo, DescribeTopicSubscribeGroup.

Name	Type	Description
ErrorCode	String	Error code. 0: success
State	String	Group status description (common valid values: Empty, Stable, Dead): Dead: the consumer group does not exist Empty: there are currently no consumer subscriptions in the consumer

		group PreparingRebalance: the consumer group is currently in <code>rebalance</code> state CompletingRebalance: the consumer group is currently in <code>rebalance</code> state Stable: each consumer in the consumer group has joined and is in stable state
ProtocolType	String	The type of protocol selected by the consumer group, which is <code>consumer</code> for common consumers. However, some systems use their own protocols; for example, the protocol used by kafka-connect is <code>connect</code>. Only with the standard <code>consumer</code> protocol can this API get to know the specific assigning method and parse the specific partition assignment
Protocol	String	Consumer partition assignment algorithm, such as <code>range</code> (which is the default value for the Kafka consumer SDK), <code>roundrobin</code>, and <code>sticky</code>
Members	Array of GroupInfoMember	This array contains information only if <code>state</code> is <code>Stable</code> and <code>protocol_type</code> is <code>consumer</code>
Group	String	Kafka consumer group

GroupInfoTopics

Internal topic object of `GroupInfo`

Used by actions: DescribeGroupInfo, DescribeTopicSubscribeGroup.

Name	Type	Description
Topic	String	Name of assigned topics
Partitions	Array of Integer	Information of assigned partition Note: this field may return null, indicating that no valid values can be obtained.

GroupOffsetPartition

Group offset partition object

Used by actions: DescribeGroupOffsets.

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Name	Type	Description
Partition	Integer	Topic <code>partitionId</code>
Offset	Integer	Offset position submitted by consumer
Metadata	String	Metadata can be passed in for other purposes when the consumer submits messages. Currently, this parameter is usually an empty string Note: this field may return null, indicating that no valid values can be obtained.
ErrorCode	Integer	Error code
LogEndOffset	Integer	Latest offset of current partition
Lag	Integer	Number of unconsumed messages

GroupOffsetResponse

Returned result of consumer group offset

Used by actions: DescribeGroupOffsets.

Name	Type	Description
TotalCount	Integer	Total number of eligible results
TopicList	Array of GroupOffsetTopic	Array of partitions in the topic, where each element is a JSON object Note: this field may return null, indicating that no valid values can be obtained.

GroupOffsetTopic

Consumer group topic object

Used by actions: DescribeGroupOffsets.

Name	Type	Description
Topic	String	Topic name
Partitions	Array of GroupOffsetPartition	Array of partitions in the topic, where each element is a JSON object Note: this field may return null, indicating that no valid values can be obtained.

GroupResponse

`DescribeGroup` response

Used by actions: `DescribeGroup`.

Name	Type	Description
TotalCount	Integer	Count Note: this field may return null, indicating that no valid values can be obtained.
GroupList	Array of DescribeGroup	GroupList Note: this field may return null, indicating that no valid values can be obtained.
GroupCountQuota	Integer	Consumer group quota Note: This field may return null, indicating that no valid values can be obtained.

InquireCkafkaPriceResp

Values returned by the `InquireCkafkaPrice` API

Used by actions: `InquireCkafkaPrice`.

Name	Type	Description
InstancePrice	InquiryPrice	Instance price Note: This field may return null, indicating that no valid values can be obtained.
PublicNetworkBandwidthPrice	InquiryPrice	Public network bandwidth price Note: This field may return null, indicating that no valid values can be obtained.

InquiryBasePrice

Response parameters for instance price query

Used by actions: `InquireCkafkaPrice`.

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Name	Type	Description
UnitPrice	Float	Original unit price Note: This field may return null, indicating that no valid values can be obtained.
UnitPriceDiscount	Float	Discounted unit price Note: This field may return null, indicating that no valid values can be obtained.
OriginalPrice	Float	Original price in total Note: This field may return null, indicating that no valid values can be obtained.
DiscountPrice	Float	Discounted price in total Note: This field may return null, indicating that no valid values can be obtained.
Discount	Float	Discount (%) Note: This field may return null, indicating that no valid values can be obtained.
GoodsNum	Integer	Number of purchased items Note: This field may return null, indicating that no valid values can be obtained.
Currency	String	Currency for payment Note: This field may return null, indicating that no valid values can be obtained.
DiskType	String	Dedicated disk response parameter Note: This field may return null, indicating that no valid values can be obtained.
TimeSpan	Integer	Validity period Note: This field may return null, indicating that no valid values can be obtained.
TimeUnit	String	Unit of the validity period (<code>m</code> : Month; <code>h</code> : Hour) Note: This field may return null, indicating that no valid values can be obtained.
Value	Integer	Purchase quantity Note: This field may return null, indicating that no valid values can be obtained.

InquiryDetailPrice

Prices of different purchased items

Used by actions: InquireCkafkaPrice.

Name	Type	Description
BandwidthPrice	InquiryBasePrice	Price of additional private network bandwidth Note: This field may return null, indicating that no valid values can be obtained.

DiskPrice	InquiryBasePrice	Disk price Note: This field may return null, indicating that no valid values can be obtained.
PartitionPrice	InquiryBasePrice	Price of additional partitions Note: This field may return null, indicating that no valid values can be obtained.
TopicPrice	InquiryBasePrice	Price of additional topics Note: This field may return null, indicating that no valid values can be obtained.
InstanceTypePrice	InquiryBasePrice	Instance package price Note: This field may return null, indicating that no valid values can be obtained.

InquiryDiskParam

Disk purchase parameters

Used by actions: [InquireCkafkaPrice](#).

Name	Type	Required	Description
DiskType	String	No	Disk type. Valid values: <code>SSD</code> (SSD), <code>CLOUD_SSD</code> (SSD cloud disk), <code>CLOUD_PREMIUM</code> (Premium cloud disk), <code>CLOUD_BASIC</code> (Cloud disk).
DiskSize	Integer	No	Size of the purchased disk in GB

InquiryPrice

Response parameters for instance price query

Used by actions: [InquireCkafkaPrice](#).

Name	Type	Description
UnitPrice	Float	Original unit price Note: This field may return null, indicating that no valid values can be obtained.
UnitPriceDiscount	Float	Discounted unit price

		Note: This field may return null, indicating that no valid values can be obtained.
OriginalPrice	Float	Original price in total Note: This field may return null, indicating that no valid values can be obtained.
DiscountPrice	Float	Discounted price in total Note: This field may return null, indicating that no valid values can be obtained.
Discount	Float	Discount (%) Note: This field may return null, indicating that no valid values can be obtained.
GoodsNum	Integer	Number of purchased items Note: This field may return null, indicating that no valid values can be obtained.
Currency	String	Currency for payment Note: This field may return null, indicating that no valid values can be obtained.
DiskType	String	Dedicated disk response parameter Note: This field may return null, indicating that no valid values can be obtained.
TimeSpan	Integer	Validity period Note: This field may return null, indicating that no valid values can be obtained.
TimeUnit	String	Unit of the validity period (<code>m</code> : Month; <code>h</code> : Hour) Note: This field may return null, indicating that no valid values can be obtained.
Value	Integer	Purchase quantity Note: This field may return null, indicating that no valid values can be obtained.
DetailPrices	InquiryDetailPrice	Prices of different purchased items Note: This field may return null, indicating that no valid values can be obtained.

InquiryPublicNetworkParam

Public network bandwidth parameters

Used by actions: InquireCkafkaPrice.

Name	Type	Required	Description
PublicNetworkChargeType	String	No	Public network bandwidth billing mode (<code>BANDWIDTH_PREPAID</code> : Monthly subscription; <code>BANDWIDTH_POSTPAID_BY_HOUR</code> : Bill-by-hour)
PublicNetworkMonthly	Integer	No	Public network bandwidth in MB

Instance

Instance object

Used by actions: DescribeInstances.

Name	Type	Description
InstanceId	String	Instance ID
InstanceName	String	Instance name
Status	Integer	Instance status. 0: creating, 1: running, 2: deleting, 5: isolated, -1: creation failed
IfCommunity	Boolean	Whether it is an open-source instance. true: yes, false: no Note: this field may return null, indicating that no valid values can be obtained.

InstanceAttributesResponse

Returned result object of instance attributes

Used by actions: DescribeInstanceAttributes.

Name	Type	Description
InstanceId	String	Instance ID
InstanceName	String	Instance name
VipList	Array of VipEntity	VIP list information of access point
Vip	String	Virtual IP

Vport	String	Virtual port
Status	Integer	Instance status. 0: creating, 1: running, 2: deleting
Bandwidth	Integer	Instance bandwidth in Mbps
DiskSize	Integer	Instance storage capacity in GB
Zoneld	Integer	AZ
VpcId	String	VPC ID. If this parameter is empty, it means the basic network
SubnetId	String	Subnet ID. If this parameter is empty, it means the basic network
Healthy	Integer	Instance health status. 1: healthy, 2: alarmed, 3: exceptional
HealthyMessage	String	Instance health information. Currently, the disk utilization is displayed with a maximum length of 256
CreateTime	Integer	Creation time
MsgRetentionTime	Integer	Message retention period in minutes
Config	InstanceConfigDO	Configuration for automatic topic creation. If this field is empty, it means that automatic creation is not enabled
RemainderPartitions	Integer	Number of remaining creatable partitions
RemainderTopics	Integer	Number of remaining creatable topics
CreatedPartitions	Integer	Number of partitions already created
CreatedTopics	Integer	Number of topics already created
Tags	Array of Tag	Tag array Note: this field may return null, indicating that no valid values can be obtained.
ExpireTime	Integer	Expiration time Note: this field may return null, indicating that no valid values can be obtained.
Zonelds	Array of Integer	Cross-AZ Note: this field may return null, indicating that no valid values can be obtained.

Version	String	Kafka version information Note: this field may return null, indicating that no valid values can be obtained.
MaxGroupNum	Integer	Maximum number of groups Note: this field may return null, indicating that no valid values can be obtained.
Cvm	Integer	Offering type. <code>0</code> : Standard Edition; <code>1</code> : Professional Edition Note: this field may return <code>null</code> , indicating that no valid value was found.
InstanceType	String	Type. Note: this field may return <code>null</code> , indicating that no valid value was found.
Features	Array of String	Features supported by the instance. <code>FEATURE_SUBNET_ACL</code> indicates that the ACL policy supports setting subnets. Note: this field may return null, indicating that no valid values can be obtained.
RetentionTimeConfig	DynamicRetentionTime	Dynamic message retention policy Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
MaxConnection	Integer	Maximum number of connections Note: this field may return null, indicating that no valid values can be obtained.
PublicNetwork	Integer	Public network bandwidth Note: this field may return null, indicating that no valid values can be obtained.
DeleteRouteTimestamp	String	Time Note: this field may return null, indicating that no valid values can be obtained.
RemainingPartitions	Integer	Number of remaining creatable partitions Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RemainingTopics	Integer	Number of remaining creatable topics Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

DynamicDiskConfig

[DynamicDiskConfig](#)

Dynamic disk expansion policy.

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

InstanceChargeParam

Instance billing parameters

Used by actions: InquireCkafkaPrice.

Name	Type	Required	Description
InstanceChargeType	String	No	Instance billing mode (<code>PREPAID</code> : Monthly subscription; <code>POSTPAID_BY_HOUR</code> : Pay-as-you-go)
InstanceChargePeriod	Integer	No	Validity period, which is only required for the monthly subscription billing mode

InstanceConfigDO

Instance configuration entity

Used by actions: DescribeInstanceAttributes.

Name	Type	Description
AutoCreateTopicsEnable	Boolean	Whether to create topics automatically
DefaultNumPartitions	Integer	Number of partitions
DefaultReplicationFactor	Integer	Default replication factor

InstanceDetail

Instance details

Used by actions: DescribeInstancesDetail.

Name	Type	Description
InstanceId	String	Instance ID

InstanceName	String	Instance name
Vip	String	Instance VIP information
Vport	String	Instance port information
VipList	Array of VipEntity	Virtual IP list
Status	Integer	Instance status. 0: creating, 1: running, 2: deleting, 5: isolated, -1: creation failed
Bandwidth	Integer	Instance bandwidth in Mbps
DiskSize	Integer	Instance storage capacity in GB
Zoneld	Integer	AZ ID
VpcId	String	vpcId. If this parameter is empty, it means the basic network
SubnetId	String	Subnet ID
RenewFlag	Integer	Whether to renew the instance automatically, which is an int-type enumerated value. 1: yes, 2: no
Healthy	Integer	Instance status. An int-type value will be returned. <code>0</code> : Healthy, <code>1</code> : Alarmed, <code>2</code> : Exceptional
HealthyMessage	String	Instance status information
CreateTime	Integer	Instance creation time
ExpireTime	Integer	Instance expiration time
IsInternal	Integer	Whether it is an internal customer. 1: yes
TopicNum	Integer	Number of topics
Tags	Array of Tag	Tag
Version	String	Kafka version information Note: this field may return null, indicating that no valid values can be obtained.
Zonelds	Array of Integer	Cross-AZ Note: this field may return null, indicating that no valid values can be obtained.

Cvm	Integer	CKafka sale type Note: this field may return null, indicating that no valid values can be obtained.
InstanceType	String	CKafka instance type Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
DiskType	String	Disk type Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
MaxTopicNumber	Integer	Maximum number of topics for the current instance Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
MaxPartitionNumber	Integer	Maximum number of partitions for the current instance Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
RebalanceTime	String	Time of scheduled upgrade Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
PartitionNumber	Integer	Number of partitions in the current instance. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
PublicNetworkChargeType	String	Public network bandwidth type. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
PublicNetwork	Integer	Public network bandwidth. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ClusterType	String	Instance type. Note: This field may return null, indicating that no valid values can be obtained.
Features	Array of String	Instance feature list. Note: This field may return null, indicating that no valid values can be obtained.

InstanceDetailResponse

Returned result of instance details

Used by actions: DescribeInstancesDetail.

Name	Type	Description
TotalCount	Integer	Total number of eligible instances
InstanceList	Array of InstanceDetail	List of eligible instance details

InstanceQuotaConfigResp

Traffic throttling policy in instance/topic dimension

Used by actions: DescribeTopicAttributes.

Name	Type	Description
QuotaProducerByteRate	Integer	Production throttling in MB/sec. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
QuotaConsumerByteRate	Integer	Consumption throttling in MB/sec. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

InstanceResponse

Aggregated returned result of instance status

Used by actions: DescribeInstances.

Name	Type	Description
InstanceList	Array of Instance	List of eligible instances Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of eligible results Note: this field may return null, indicating that no valid values can be obtained.

JgwOperateResponse

Returned result value of operation

Used by actions: BatchModifyGroupOffsets, CreateAcl, CreateConsumer, CreateInstancePost, CreatePartition, CreateTopicIpWhiteList, CreateUser, DeleteAcl, DeleteRoute, DeleteTopic, DeleteTopicIpWhiteList, DeleteUser, ModifyDatahubTopic, ModifyGroupOffsets, ModifyInstanceAttributes, ModifyPassword, ModifyTopicAttributes.

Name	Type	Description
ReturnCode	String	Returned code. 0: normal, other values: error
ReturnMessage	String	Success message
Data	OperateResponseData	Data returned by an operation, which may contain <code>flowId</code> , etc. Note: this field may return null, indicating that no valid values can be obtained.

ModifyInstanceAttributesConfig

Configuration object for modifying instance attributes

Used by actions: ModifyInstanceAttributes.

Name	Type	Required	Description
AutoCreateTopicEnable	Boolean	No	Automatic creation. true: enabled, false: not enabled
DefaultNumPartitions	Integer	No	Optional. If <code>auto.create.topic.enable</code> is set to <code>true</code> and this value is not set, 3 will be used by default
DefaultReplicationFactor	Integer	No	If <code>auto.create.topic.enable</code> is set to <code>true</code> but this value is not set, 2 will be used by default

OperateResponseData

Data structure returned by operation

Used by actions: BatchModifyGroupOffsets, CreateAcl, CreateConsumer, CreateInstancePost, CreatePartition, CreateTopicIpWhiteList, CreateUser, DeleteAcl, DeleteRoute, DeleteTopic, DeleteTopicIpWhiteList, DeleteUser,

ModifyDatahubTopic, ModifyGroupOffsets, ModifyInstanceAttributes, ModifyPassword, ModifyTopicAttributes.

Name	Type	Description
FlowId	Integer	FlowId11 Note: this field may return null, indicating that no valid values can be obtained.
RouteDTO	RouteDTO	RouteIdDto Note: This field may return null, indicating that no valid values can be obtained.

Partition

Partition entity

Used by actions: DescribeConsumerGroup.

Name	Type	Description
PartitionId	Integer	Partition ID

PartitionOffset

Partition and offset

Used by actions: DescribeConsumerGroup.

Name	Type	Description
Partition	String	Partition, such as "0" or "1" Note: this field may return null, indicating that no valid values can be obtained.
Offset	Integer	Offset, such as 100 Note: this field may return null, indicating that no valid values can be obtained.

Partitions

Partition information

Used by actions: BatchModifyGroupOffsets.

Name	Type	Required	Description
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Partition	Integer	Yes	Partition.
Offset	Integer	Yes	Partition consumption offset.

Price

Message price entity

Used by actions: DescribeCkafkaZone.

Name	Type	Description
RealTotalCost	Float	Discounted price
TotalCost	Float	Original price

Region

Region entity object

Used by actions: DescribeRegion.

Name	Type	Description
RegionId	Integer	Region ID
RegionName	String	Region name
AreaName	String	Area name
RegionCode	String	Region code Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
RegionCodeV3	String	Region code (v3) Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Support	String	NONE: no special models are supported by default. CVM: the CVM type is supported. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

Ipv6	Integer	Whether IPv6 is supported. <code>0</code> indicates no, and <code>1</code> indicates yes. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
MultiZone	Integer	Whether cross-AZ clusters are supported. <code>0</code> indicates no, and <code>1</code> indicates yes. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

Route

Route entity object

Used by actions: DescribeRoute.

Name	Type	Description
AccessType	Integer	Instance connection method 0: PLAINTEXT (plaintext method, which does not carry user information and is supported for legacy versions and Community Edition) 1: SASL_PLAINTEXT (plaintext method, which authenticates the login through SASL before data start and is supported only for Community Edition) 2: SSL (SSL-encrypted communication, which does not carry user information and is supported for legacy versions and Community Edition) 3: SASL_SSL (SSL-encrypted communication, which authenticates the login through SASL before data start and is supported only for Community Edition)
RouteId	Integer	Route ID
VipType	Integer	VIP network type (1: Public network TGW; 2: Classic network; 3: VPC; 4: Supporting network (IDC environment); 5: SSL public network access; 6: BM VPC; 7: Supporting network (CVM environment)).
VipList	Array of VipEntity	Virtual IP list
Domain	String	Domain name Note: this field may return null, indicating that no valid values can be obtained.
DomainPort	Integer	Domain name port Note: this field may return null, indicating that no valid values can be obtained.
DeleteTimestamp	String	Timestamp Note: this field may return null, indicating that no valid values can be obtained.

RouteDTO

RouteDTO

Used by actions: BatchModifyGroupOffsets, CreateAcl, CreateConsumer, CreateInstancePost, CreatePartition, CreateTopicIpWhiteList, CreateUser, DeleteAcl, DeleteRoute, DeleteTopic, DeleteTopicIpWhiteList, DeleteUser, ModifyDatahubTopic, ModifyGroupOffsets, ModifyInstanceAttributes, ModifyPassword, ModifyTopicAttributes.

Name	Type	Description
RouteId	Integer	RouteId11 Note: This field may return null, indicating that no valid values can be obtained.

RouteResponse

Returned object for route information

Used by actions: DescribeRoute.

Name	Type	Description
Routers	Array of Route	Route information list Note: this field may return null, indicating that no valid values can be obtained.

SaleInfo

Sales information of Standard Edition

Used by actions: DescribeCkafkaZone.

Name	Type	Description
Flag	Boolean	Manually set flag. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Version	String	CKafka version (v1.1.1/2.4.2/0.10.2) Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Platform	String	Whether it is Pro Edition or Standard Edition. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
SoldOut	Boolean	Whether it has been sold out. <code>true</code> : sold out.

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

SubscribedInfo

Subscribed message entity

Used by actions: DescribeConsumerGroup.

Name	Type	Description
TopicName	String	Subscribed topic name
Partition	Array of Integer	Subscribed partition Note: this field may return null, indicating that no valid values can be obtained.
PartitionOffset	Array of PartitionOffset	Partition offset information Note: this field may return null, indicating that no valid values can be obtained.
TopicId	String	ID of the subscribed topic. Note: this field may return null, indicating that no valid values can be obtained.

Tag

Tag object in instance details

Used by actions: CreateDatahubTopic, CreateTopic, DescribeInstanceAttributes, DescribeInstancesDetail, DescribeTopicDetail, ModifyDatahubTopic, ModifyTopicAttributes.

Name	Type	Required	Description
TagKey	String	Yes	Tag key
TagValue	String	Yes	Tag value

TaskStatusResponse

Returned task status

Used by actions: DescribeTaskStatus.

Name	Type	Description
Status	Integer	Task status. <code>0</code> (Successful), <code>1</code> (Failed), <code>2</code> (Running)
Output	String	Output information Note: This field may return null, indicating that no valid values can be obtained.

Topic

Returned topic object

Used by actions: DescribeTopic.

Name	Type	Description
TopicId	String	Topic ID
TopicName	String	Topic name
Note	String	Remarks Note: this field may return null, indicating that no valid values can be obtained.

TopicAttributesResponse

Returned topic attributes result entity

Used by actions: DescribeTopicAttributes.

Name	Type	Description
TopicId	String	Topic ID
CreateTime	Integer	Creation time
Note	String	Topic remarks Note: this field may return null, indicating that no valid values can be obtained.
PartitionNum	Integer	Number of partitions
EnableWhiteList	Integer	IP allowlist switch. 1: enabled, 0: disabled

IpWhiteList	Array of String	IP allowlist list
Config	Config	Topic configuration array
Partitions	Array of TopicPartitionDO	Partition details
EnableAclRule	Integer	Switch of the preset ACL rule. <code>1</code> : enable, <code>0</code> : disable. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
AclRuleList	Array of AclRule	Preset ACL rule list. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
QuotaConfig	InstanceQuotaConfigResp	Traffic throttling policy in topic dimension. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ReplicaNum	Integer	Number of replicas Note: This field may return null, indicating that no valid values can be obtained.

TopicDetail

Topic details

Used by actions: DescribeTopicDetail.

Name	Type	Description
TopicName	String	Topic name
TopicId	String	Topic ID
PartitionNum	Integer	Number of partitions
ReplicaNum	Integer	Number of replicas
Note	String	Remarks Note: this field may return null, indicating that no valid values can be obtained.
CreateTime	Integer	Creation time
EnableWhiteList	Boolean	Whether to enable IP authentication allowlist. true: yes, false: no

IpWhiteListCount	Integer	Number of IPs in IP allowlist
ForwardCosBucket	String	COS bucket for data backup: address of the destination COS bucket Note: this field may return null, indicating that no valid values can be obtained.
ForwardStatus	Integer	Status of data backup to COS. 1: not enabled, 0: enabled
ForwardInterval	Integer	Frequency of data backup to COS
Config	Config	Advanced configuration Note: this field may return null, indicating that no valid values can be obtained.
RetentionTimeConfig	TopicRetentionTimeConfigRsp	Message retention time configuration (for recording the latest retention time) Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Status	Integer	<code>0</code> : normal, <code>1</code> : deleted, <code>2</code> : deleting Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Tags	Array of Tag	Tag list Note: This field may return null, indicating that no valid values can be obtained.

TopicDetailResponse

Returned topic details entity

Used by actions: DescribeTopicDetail.

Name	Type	Description
TopicList	Array of TopicDetail	List of returned topic details Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Number of all eligible topic details

TopicInSyncReplicaInfo

Topic replica and details

Used by actions: DescribeTopicSyncReplica.

Name	Type	Description
Partition	String	Partition name
Leader	Integer	Leader ID
Replica	String	Replica set
InSyncReplica	String	ISR
BeginOffset	Integer	Starting offset Note: this field may return null, indicating that no valid values can be obtained.
EndOffset	Integer	Ending offset Note: this field may return null, indicating that no valid values can be obtained.
MessageCount	Integer	Number of messages Note: this field may return null, indicating that no valid values can be obtained.
OutOfSyncReplica	String	Unsynced replica set Note: this field may return null, indicating that no valid values can be obtained.

TopicInSyncReplicaResult

Set of topic replicas and details

Used by actions: DescribeTopicSyncReplica.

Name	Type	Description
TopicInSyncReplicaList	Array of TopicInSyncReplicaInfo	Set of topic details and replicas
TotalCount	Integer	Total number

TopicPartitionDO

Partition details

Used by actions: DescribeTopicAttributes.

Name	Type	Description
Partition	Integer	Partition ID
LeaderStatus	Integer	Leader running status
IsrNum	Integer	ISR quantity
ReplicaNum	Integer	Number of replicas

TopicResult

`TopicResponse` returned uniformly

Used by actions: DescribeTopic.

Name	Type	Description
TopicList	Array of Topic	List of returned topic information Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Number of eligible topics Note: this field may return null, indicating that no valid values can be obtained.

TopicRetentionTimeConfigRsp

Information returned for topic message retention time configuration

Used by actions: DescribeTopicDetail.

Name	Type	Description
Expect	Integer	Expected value, i.e., the topic message retention time (min) configured Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Current	Integer	Current value (min), i.e., the retention time currently in effect, which may be dynamically adjusted Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

ModTimeStamp	Integer	Last modified time Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
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TopicSubscribeGroup

`DescribeTopicSubscribeGroup` output parameters

Used by actions: `DescribeTopicSubscribeGroup`.

Name	Type	Description
TotalCount	Integer	Total number
StatusCountInfo	String	Number of consumer group status
GroupsInfo	Array of GroupInfoResponse	Consumer group information Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Status	Integer	Whether a request is asynchronous. If there are fewer consumer groups in the instances, the result will be returned directly, and status code is 1. When there are many consumer groups in the instances, cache will be updated asynchronously. When status code is 0, grouping information will not be returned until cache update is completed and status code becomes 1. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

User

User entity

Used by actions: `DescribeUser`.

Name	Type	Description
UserId	Integer	User ID
Name	String	Username
CreateTime	Timestamp	Creation time

UpdateTime	Timestamp	Last updated time
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UserResponse

Returned user entity

Used by actions: DescribeUser.

Name	Type	Description
Users	Array of User	List of eligible users Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of eligible users

VipEntity

Virtual IP entity

Used by actions: DescribeInstanceAttributes, DescribeInstancesDetail, DescribeRoute.

Name	Type	Description
Vip	String	Virtual IP
Vport	String	Virtual port

ZoneInfo

Zone information entity

Used by actions: DescribeCkafkaZone.

Name	Type	Description
Zoneld	String	Zone ID
IsInternalApp	Integer	Whether it is an internal application.
AppId	Integer	Application ID
Flag	Boolean	Flag

ZoneName	String	Zone name
ZoneStatus	Integer	Zone status
Exflag	String	Extra flag
SoldOut	String	JSON object. The key is the model. The value <code>true</code> means “sold out”, and <code>false</code> means “not sold out”.
SalesInfo	Array of SaleInfo	Information on whether Standard Edition has been sold out. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

ZoneResponse

The entity returned for the query of Kafka’s zone information

Used by actions: DescribeCkafkaZone.

Name	Type	Description
ZoneList	Array of ZoneInfo	Zone list
MaxBuyInstanceNum	Integer	Maximum number of instances to be purchased
MaxBandwidth	Integer	Maximum bandwidth in MB/S
UnitPrice	Price	Pay-as-you-go unit price
MessagePrice	Price	Pay-as-you-go unit message price
ClusterInfo	Array of ClusterInfo	Cluster information dedicated to a user Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Standard	String	Purchase of Standard Edition configurations Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
StandardS2	String	Purchase of Standard S2 Edition configurations Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Profession	String	Purchase of Pro Edition configurations

		Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Physical	String	Purchase of Physical Dedicated Edition configurations Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
PublicNetwork	String	Public network bandwidth. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
PublicNetworkLimit	String	Public network bandwidth configuration. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

Error Codes

Last updated : 2024-11-27 17:59:03

Feature Description

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

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

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

Error Code List

Common Error Codes

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

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

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

Service Error Codes

Error Code	Description
AuthFailure	CAM signature/authentication error.
InvalidParameter.TopicExist	The topic name is duplicate.
InvalidParameterValue.InstanceNotExist	The instance does not exist.
InvalidParameterValue.NotAllowedEmpty	The parameter is required.
InvalidParameterValue.RepetitionValue	The parameter already exists.
InvalidParameterValue.SubnetIdInvalid	Invalid subnet ID.
InvalidParameterValue.SubnetNotBelongToZone	The subnet is not in the zone.
InvalidParameterValue.VpcIdInvalid	Invalid VPC ID.
InvalidParameterValue.WrongAction	The value of the <code>Action</code> parameter is incorrect.

InvalidParameterValue.ZoneNotSupport	The zone is not supported.
OperationDenied	Operation denied.
OperationDenied.ResourceTaskPaused	Task paused.
ResourceUnavailable.KafkaStorageError	Disk resources are unavailable on the broker.
UnsupportedOperation.BatchDelInstanceLimit	The batch instance deletion limit is reached.
UnsupportedOperation.OssReject	Oss rejected the operation.