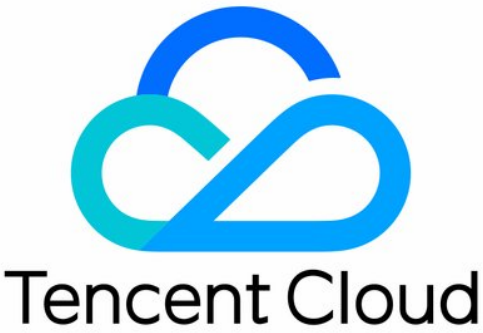
# Message Queue CKafka

# API Documents

## Product Introduction



# Contents

# API Documents
# CKafka API

Last updated：2018-01-30 17:24:48

### Instance-related APIs

| Feature | Action ID | Description |
| --- | --- | --- |
| Set Instance Attributes | SetInstanceAttributes | Used to set instance attributes. |
| Get Instance Attributes | GetInstanceAttributes | Used to get the attributes of an instance. |
| Obtain Instance List | ListInstance | Used to obtain the list of instances. |

### Topic-related APIs

| Feature | Action ID | Description |
| --- | --- | --- |
| Create Topics | CreateTopic | Used to create topics under the CKafka instance. |
| Delete Topics | DeleteTopic | Used to delete topics under the CKafka instance. |
| Modify Topic Attributes | SetTopicAttributes | Used to modify the topic attributes under the CKafka instance. |
| Obtain Topic Attributes | GetTopicAttributes | Used to obtain the topic attributes of the CKafka instance. |
| Obtain Topic List | ListTopic | Used to obtain the topic list of the CKafka instance. |
| Add Partition | AddPartition | Used to add partitions in the topic. |

### Access Control-related APIs

| Feature | Action ID | Description |
| --- | --- | --- |
| Add Topic Whitelist | AddTopicIpwhitelist | Used to add an IP whitelist in the topic. |
| Delete Topic Whitelist | DeleteTopicIpwhitelist | Used to delete the IP whitelist in the topic. |

# Calling Method
# Signature Method

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Tencent Cloud API will verify every access request. Every request needs to contain a signature in common request parameters for identity verification. The signature is generated by your security credential, which include SecretID and SecretKey. If you do not have a security credential, you need to apply for it on Tencent Cloud official website. Otherwise, you cannot call Tencent Cloud APIs.

## 1. Applying for a Security Credential

Before the first-time use of the cloud API, you need to apply for a security credential on the Tencent Cloud CVM console.
The security credential includes SecretId and SecretKey, where:

SecretId: Used to indicate the API caller identity.

SecretKey: The key used to encrypt the signed string and verify it on the server.

Note: The API key is an important credential to build Tencent Cloud API requests. Any one with is key can get access to your Tencent Cloud resources. For the security of your property and services, please properly save and regularly change the key. Delete the old key in time when you change your key.

Do the followings to apply for a security credential:

1) Log in to Tencent Cloud Console.

2) Click "Cloud Products" and select "Cloud API Key" under "Monitor & Management" to enter the cloud API key management page.


3) In Cloud API Key Managemen, click "New" to create a SecretId/SecretKey pair.

A developer account can have up to two SecretId/SecretKey pairs.
A QQ account that has been added by the developer as a sub-user can apply for different security credentials on different developer consoles.
The sub-user security credential currently can only call some cloud APIs.

## 2. Generating a signature

You can generate a signed string after obtaining the SecretId and SecretKey. The following details the procedure for generating a signed string.

Suppose the user's SecretId and SecretKey are:

SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA

SecretKey: Gu5t9xGARNpq86cd98joQYCN3Cozk1qA

**Note: This is only an example. Please continue the subsequent operations with your own SecretId and SecretKey!**
Here we use the DescribeInstances request as an example. When you call this API, the request parameters may be as follows:

| Parameter | Description | Value |
| --- | --- | --- |

| Parameter | Description | Value |
| --- | --- | --- |
| Action | Method name | DescribeInstances |
| SecretId | Key ID | AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA |
| Timestamp | Current timestamp | 1465185768 |
| Nonce | Random positive integer | 11886 |
| Region | Instance region | gz |
| instanceIds.0 | Instance ID to be queried | ins-09dx96dg |
| offset | Offset value | 0 |
| limit | Maximum allowable output | 20 |

According to the above table, only five public request parameters are listed here: Action, SecretId, Timestamp, Nonce and Region, rather than six parameters. In fact, the sixth parameter Signature is generated by other parameters (including the instruction request parameter). The specific steps are as follows:

### 2.1. Sorting parameters

First of all, sort all request parameters in ascending lexicographic order, which means intuitively they are in the same order as words in the dictionary, according to the order of the alphabet or numeration table: The first letter is considered first, then the second letter, and so on. You can use the relevant sorting function in the programming language, for example, the PHP ksort function, to achieve this feature. The results of sorting the parameters in the above example are as follows:

```
{
'Action' : 'DescribeInstances',
'Nonce' : 11886,
'Region' : 'gz',
'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA',
'Timestamp' : 1465185768,
'instanceIds.0' : 'ins-09dx96dg',
'limit' : 20,
'offset' : 0,
}
```

When using other programming languages in development, you can also sort the parameters in the above example, as long as the same results are obtained.

## 2.2. Combining a request string

This step generates a request string.
Format the request parameters sorted in previous step to the form of "Parameter"="Value". For example, for the Action parameter, the name is "Action" and the value "DescribeInstances"; the formatted form is Action=DescribeInstances.
**Note: 1. "Value" here is the original value rather than the URL-encoded value. 2. If the input parameter contains an underscore, you need to convert it to ".".**

Then combine these parameters in formatted form with the "&" symbol and the resulting request string is:

```
Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0
```

## 2.3. Combining a signed source string

This step generates the original string of a signature.
The signed source string consists of the following parameters:

1) Request mode: POST and GET modes are supported and the GET mode is used here. Note that all letters are uppercase.
2) Request host: The domain name for the DescribeInstances request is cvm.api.qcloud.com. The actual request domain name varies with the module to which the API belongs. For details, refer to the description of each API.
3) Request path: The request path for the cloud API is fixed at /v2/index.php.
4) Request string: It is the request string generated in the previous step.

The combination rule for signed source strings is:

```
Request method + Request server + Request path + ? + Request string
```

The combination results in this example are:

```
GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0
```

## 2.4. Generating a signature

This step generates a signature.
First, the HMAC-SHA1 algorithm is used to complete signature with the **signed source string** obtained in

the previous step, and then the generated signed string is encoded using Base64 to obtain the final signed string.

Specific codes are as follows (the PHP language as an example):

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3Cozk1qA';
$srcStr = 'GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The resulting signed string is:

```
NSI3UqqD99b/UJb4tbG/xZpRW64=
```

When using other programming languages in development, you can also verify the signed source string in the above example, as long as the same signed string is obtained.

## 3. Signature encoding

The generated signature cannot be used directly as a request parameter, and URL encoding is required. If the signature generated in the previous step is `NSI3UqqD99b/UJb4tbG/xZpRW64=` , then the URL-encoded string is `NSI3UqqD99b/UJb4tbG/xZpRW64=` . Therefore, the resulting signature request parameter is: `NSI3UqqD99b/UJb4tbG/xZpRW64=` , which will be used to generate the final request URL.

Note: If you use the GET request mode, then URL encoding is required for all request parameter values. Some language libraries will automatically encode the URL. Duplicate encoding will cause signature verification failure.

## 4. Authentication failure

When the authentication fails, possible errors are as follows:

| Error Code | Type | Description |
| --- | --- | --- |
| 4100 | Verification failed | Signature verification failed, Please ensure that the signature in your request parameters is calculated correctly. Or maybe the key state is incorrect. Make sure that the API key is valid and not disabled. |

| Error Code | Type | Description |
| --- | --- | --- |
| 4101 | Not authorized by the developer to access this API | The sub-user is not authorized to call this API. Please contact the developer for authorization. For details, refer to Authorization policies. |
| 4102 | Not authorized by the developer to access the resources operated by this API | The resource parameters that you request contain resources whose access is not authorized by the developer. Please check in the message field for the resource IDs that you do not have permissions to view.<br>Please contact the developer for authorization. For details, refer to Authorization Policies. |
| 4103 | Only the developer SecretId can call this API currently. | The sub-user SecretID cannot call this API, and only the developer SecretID can. |

# Request Structure
# Introduction of Request Structure

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When you call a Tencent Cloud API, a request with corresponding parameters is sent to the server address of Tencent Cloud API. The Tencent Cloud API request structure consists of the following parts:

## 1. Service address

Tencent Cloud API service access address depends on specific modules. For details, see the description of each API.

## 2. Communication protocol

Most Tencent Cloud APIs use the HTTPS protocol to provide high-security communication channels.

## 3. Request mode

Tencent Cloud APIs support both POST and GET request modes.
**Note:

1. These two modes CAN NOT be used at the same time. That is, if you use the GET method, then all parameters are obtained from Querystring; if you use the POST method, all parameters are obtained from the Request Body and those parameters in Querystring will be ignored. Both request modes use the same format of parameters. GET is recommendedfor normal cases, and POST is recommended for parameters containing long strings.
2. For the GET request mode, URL encoding is required for all request parameter values; for POST, you do not need to encode the parameters.
3. The max length of GET requests varies for different browser and server settings. For example, the max length is 2k for IE, and 8k for Firefox. For API requests with lots of parameters, use POST to avoid request failures caused by over-limit strings

## 4. Request parameters

Each Tencent Cloud API request requires two types of parameters: public request parameters and API request parameters. The public request parameter is used by every API. For details, refer to the Common request parameters section; API request parameters are specific to each API. For details, see "Request parameters" for each API.

## 5. Character encoding

Tencent Cloud API requests and return results are encoded using the UTF-8 character set.

# Common Request Parameters

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Common request parameters are the request parameters that are used by every API. Unless it is necessary, these parameters will not be described in the separate documents for each API. However, they need to be included in each request. The first letter of common request parameters are capitalized, to distinguish them from API request parameters.

Common request parameters are listed below:

| Parameter | Required | Description | Type |
|---|---|---|---|
| Action | Yes | The API name to be called. For example, if you want to call the DescribeInstances API, then the Action parameter is DescribeInstances. | String |
| Region | No | This parameter indicates the region you want to operate the instances. The values for the region parameter are: Beijing:ap-beijing, Guangzhou:ap-guangzhou, Shanghai:ap-shanghai, Hong Kong:ap-hongkong, Toronto:na-toronto, Silicon Valley:na-siliconvalley, Singapore:ap-singapore, Shanghai Finance:ap-shanghai-fsi, Shenzhen Finance:ap-shenzhen-fsi, Guangzhou open zone: ap-guangzhou-open Click to view all Regions and Availability Zones , click to view DescribeRegions API introduce。 **Note: 1. This parameter is required fot most cases. If it is not required, we will state that in the corresponding API doc. 2. Some regions are in trial period and only open for authorized users.** | String |
| Timestamp | Yes | Current UNIX timestamp, which records the time when an API request is originated. | UInt |
| Nonce | Yes | A random positive integer, used in conjunction with timestamp to prevent playback attacks. | UInt |
| SecretId | Yes | The SecretId that indicates the identity requested on the Cloud API key. A SecretId corresponds to a unique SecretKey, which is used to generate a request signature. For details, refer to the Signature Mode page. | String |
| Signature | Yes | Request signature, used to verify the legitimacy of the request, the system automatically generated based on input parameters. For details, refer to the Signature Mode page. | String |

For example, if you want to query the CVM instance list in Guangzhou, the request link should be:

```
https://cvm.api.qcloud.com/v2/index.php?
Action=DescribeInstances
&SecretId=xxxxxxx
&Region=gz
&Timestamp=1465055529
&Nonce=59485
&Signature=mysignature
&<API request parameters>
```

A complete request requires two types of request parameters: public request parameters and API request parameters. Only the aforementioned six public request parameters are listed here. For more information about API request parameters, refer to the API request parameters section.

# API-specific Request Parameters

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API request parameters depends on specific APIs. Different APIs support different API request parameters. The first letter of API request parameters is lowercase to distinguish them from public request parameters. We here use DescribeInstances as an example. It supports these API request parameters:

| Parameter | Required | Type | Description |
|---|---|---|---|
| instanceIds.n | No | String | ID array of CVM instances to be queried (starting from 0). You can use instanceId and unInstanceId, and the uniform resource ID: unInstanceId is recommended. |
| lanIps.n | No | String | Private IP array of CVMs to be queried. |
| searchWord | No | String | User-defined CVM name. |
| offset | No | Int | Offset value, which defaults to 0. |
| limit | No | Int | The maximum number of CVM that can be queried at one time. The default is 20 and the maximum is 100. |
| status | No | Int | Status of the CVM to be queried. |
| projectId | No | String | Project ID. The CVM instances for all projects are queried if it is not specified. 0 indicates the default project. If you want to specify a different project, you can call the DescribeProject API to query. |
| simplify | No | Int | Obtains non-real time data. When simplify = 1 is specified, then non-real time data is obtained. |
| zoneId | No | Int | Availability zone ID. The CVM instances for all availability zones are queried if it is not specified. To specify an availability zone, you can call the DescribeAvailabilityZones API to query. |

The fields are described as follows:

| | |
|---|---|
| Parameter | Name of the request parameters supported by this API. You can use it as an API request parameter when using this API.<br>Note: If the parameter name is ended with ".n", it indicates that this parameter is an array. Then you need to specify array parameters in sequence. For the DescribeInstances API, if you specify the parameter instanceIds.0=ins- |

| | |
|---|---|
| | 0hm4gvho&instanceIds.1=ins-0hm4gvho, only the CVM instances with the IDs of ins-0hm4gvho and ins-0hm4gvho are queried. |
| Required | Indicates whether this parameter is required. "Yes" means that this parameter must be specified to call this API; "No" means that it may not be specified. In the DescribeInstances API, all API request parameters are not mandatory. You can call this API using common request parameters. |
| Type | Data type of this API parameter. |
| Description | Describes briefly the content of this API request parameter. |

If you want to query the auto scaling group list, the request should be:

```
https://cvm.api.qcloud.com/v2/index.php?
&<Common request parameters>
&instanceIds.0=ins-0hm4gvho
&instanceIds.1=ins-8oby8q00
&offset=0
&limit=20
&status=2
&zoneId=100003
```

A complete request requires two types of request parameters: common request parameters and API request parameters. Only API request parameter are listed here. For more information about common request parameters, refer to Common request parameters.

# Final Request Format

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The final request URL consists of the following parts:
1) Request domain name: the domain name of the DescribeInstances request is cvm.api.qcloud.com. The actual request domain name varies with the module to which the API belongs. For details, refer to the description of each API.
2) Request path: The request path for the cloud API is "/v2/index.php".
3) Final request parameter strings: Includes both common request parameters and API request parameters.

The combination rule for final request parameter strings is:

```
https:// + Request method + Request server + Request path + ? + Request string
```

Therefore, we get the following final request URL, where the first six parameters are common request parameters, the other six parameters are API request parameters.

```
https://cvm.api.qcloud.com/v2/index.php?
Action=DescribeInstances
&SecretId=xxxxxxx
&Region=gz
&Timestamp=1465055529
&Nonce=59485
&Signature=mysignature
&instanceIds.0=ins-0hm4gvho
&instanceIds.1=ins-8oby8q00
&offset=0
&limit=20
&status=2
&zoneId=100003
```

# Returned Results
# Result for Successful Requests

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If the API is successfully called, the error code is 0, the error message is empty, and the returned result data is displayed.
Example:

```
{
"code": 0,
"message": "",
<Returned result data>
}
```

# Result for Failed Requests

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If the API call fails, the error code is not 0, and the message field displays error details. You can query specific error information based on the codes and message fields on the Error codes page.
Example of a returned error:

```
{
"code": 5100,
"message": "(100004) projectId is incorrect",
}
```

# Asyn Task API Return Format

Last updated：2018-01-30 17:29:17

## 1. Return format for ordinary asynchronous task APIs

For such asynchronous task APIs, one request operates only one resource, for example creating load balance, resetting the host operating system.

| Name | Type | Description | Required |
|---|---|---|---|
| code | Int | Error code, 0 for succeeded, other values for failed. | Yes |
| message | String | Error message returned | No |
| requestId | String | Task No. | Yes |

## 2. Return Format of Batch Asynchronous Task APIs

For such asynchronous task APIs, one request operates multiple resources, for example changing passwords, starting machines, stopping machines.

| Name | Type | Description | Required |
|---|---|---|---|
| code | Int | Error code, 0 for succeeded, other values for failed. | Yes |
| message | String | Error message returned | No |
| detail | Array | The resource ID is used as the key and the code, message, requestId for the resource operation is returned. | Yes |

For example:

```
{
"code":0,
"message": "success",
"detail":
{
"qcvm6a456b0d8f01d4b2b1f5073d3fb8ccc0":
{
"code":0,
```

```
"message":"",
"requestId":"1231231231231":,
}
"qcvm6a456b0d8f01d4b2b1f5073d3fb8ccc0":
{
"code":0,
"message":"",
"requestId":"1231231231232":,
}
}
}
```


Note:
If all resource operations succeeded, the outermost code is 0
If all resource operations failed, the outermost code will be 5100
If some resource operations failed, the outermost code will be 5400
In the third case, the terminal can get information about the failed operations via details.

# Error Codes

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## 1. Common Error Codes

The error codes returned represent the results for calling the cloud API. Code represents a common error code, which applies to all module APIs. 0 indicates successful calling and other values for calling failure. For calling failure, you can determine error causes according to the following table and take corresponding measures.

| Error Code | Error Type | Description |
|---|---|---|
| 4000 | Invalid request parameters | Required parameters are missing, or parameter values are not in the correct format. See the message field of error description for specific error information. |
| 4100 | Authentication failed | Signature authentication failed. Refer to the authentication section in the document. |
| 4200 | Request expired | The request has expired. Refer to the validity request section in the document. |
| 4300 | Access denied | The account is blocked, or not in the user range of the API. |
| 4400 | Quota exceeded | The number of requests exceeded the quota. Refer to the request quota section of the document. |
| 4500 | Playback attack | The Nonce and Timestamp parameters of a request ensure that the request will be executed only once on the server, so two Nonce parameters cannot be repeated, and the Timestamp parameter cannot have a time difference of more than 2 hours from Tencent server. |
| 4600 | Protocol not supported | The protocol is not supported. Currently the API only supports the HTTPS protocol, but not HTTP. |
| 5000 | Resource not existed | The instance corresponding to the resource ID does not exist, or the instance has been returned, or the resource belong to other users. |
| 5100 | Resource operation failed | The resource operation failed. See the message field of error description for specific error information. Try again later or contact customer service personnel for help. |
| | | |

| | | |
|---|---|---|
| 5200 | Resource purchase failed | Failed to purchase the resource. Possible causes may be instance configuration not supported, insufficient resources and so on. |
| 5300 | Insufficient balance | Your account has insufficient balance to complete the purchase or upgrade. |
| 5400 | Partial operations succeeded | The batch operation is partially successful. See return values for details. |
| 5500 | User qualification review failed | The resources purchase failed, for you do not pass user qualification review. |
| 6000 | Server error | A server error occurred. Try again later or contact customer service for help. |
| 6100 | Version not supported | The API is not supported on this version or is under maintenance. Note: When this error occurs, make sure that the domain name of the API is correct. Different modules may have different domain names. |
| 6200 | API inaccessible | The current API is under maintenance. Please try again later. |

## 2. Module Error Codes

The message field indicates module-related errors.
Example:
"message": "(100004) projectId is incorrect"
It consists of two parts: the module error code is in () and specific error description after ().
Different modules may produce different errors. You can determine errors based on the specific error description.

# Topic API
# Create Topic

Last updated：2018-07-20 11:39:32

## 1. API Description

This API (CreateTopic) is used to create topics under a CKafka instance.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
|---|---|---|---|
| instanceId | Yes | String | Instance ID |
| topicName | Yes | String | Topic name, which must be a combination of not more than 64 characters. It can contain letters, numbers, and hyphens (-), and must begin with a letter. |
| partitionNum | Yes | Int | Number of partitions, which must be greater than 0 |
| replicaNum | Yes | Int | Number of replicas, which cannot be greater than the number of brokers (maximum is 3) |
| enableWhiteList | No | int | Whether to enable IP whitelist. 1: Enable 0: Disable |
| ipWhiteList.n | No | String | Quota limit of IP whitelist. Required when enableWhileList=1 |

## 3. Output Parameters

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

| Parameter Name | Type | Description |
| --- | --- | --- |
| topicId | String | Topic ID |

# 4. Example

Input:

```
https://domain/v2/index.php?Action=CreateTopic&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
"topicId" : "topic-xxoo234"
}
```

# Modify Topic Attribute

Last updated：2018-08-28 19:42:48

## 1. API Description

This API (SetTopicAttributes) is used to modify the topic attributes under a CKafka instance.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| instanceId | Yes | String | Instance ID |
| topicName | Yes | String | Topic name |
| enableWhiteList | No | int | Whether to enable IP whitelist. 1: Enable 0: Disable |

## 3. Example

Input:

```
https://domain/v2/index.php?Action=SetTopicAttributes&instanceId=ckafka-xxxxxx&topicName=xxxxx&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
}
```

# Delete Topic

Last updated：2018-01-30 17:21:23

## 1. API Description

This API (DeleteTopic) is used to delete the topics under a CKafka instance.

Domain name for API request: ckafka.api.qcloud.com>

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| instanceId | Yes | String | Instance ID |
| topicName | Yes | String | Topic name |

## 3. Example

Input:

```
https://domain/v2/index.php?Action=DeleteTopic&instanceId=topic-xxxxxx&topicName=tinatest<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
}
```

# Add Partition

Last updated：2018-01-30 17:21:13

## 1. API Description

This API (AddPartition) is used to add partitions in a topic.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
|---|---|---|---|
| instanceId | Yes | String | Instance ID |
| topicName | Yes | String | Topic name |
| partitionNum | Yes | Int | Required. Number of partitions |

## 3. Example

Input:

```
https://domain/v2/index.php?Action=AddPartition&instanceId=ckafka-xxooa0&topicName=tinatest
&partitionNum=3&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
}
```

Note: All the partitions under the same topic have the same number of replicas.

# Obtain Topic List

Last updated：2018-07-20 11:40:43

## 1. API Description

This API (ListTopic) is used to obtain the list of topics under a CKafka instance.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
|---|---|---|---|
| instanceId | Yes | String | Instance ID |
| searchWord | No | String | (Filter condition) Filter by topicName. Fuzzy search is supported. |
| offset | No | Int | Offset value. It defaults to 0 if left empty. |
| limit | No | Int | Number of returned results. It defaults to 10 if left empty. The maximum is 20. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| totalCount | Int | Number of topics matching the filter condition. |
| topicList | Array | List of topic information |
| topicList::topicId | String | Topic ID |
| topicList::topicName | String | Topic name |

# 4. Example

Input:

```
https://domain/v2/index.php?Action=ListTopic&instanceId=ckafka-xxooa0&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
"totalCount" : 10,
"topicList" : [
{
"topicId" : "topic-xxoo234",
"topicName" : "jimmy",
}
]
}
```

# Obtain Topic Attribute

Last updated：2018-07-20 11:41:36

## 1. API Description

This API (GetTopicAttributes) is used to obtain the topic attributes of a CKafka instance.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| instanceId | Yes | String | Instance ID |
| topicName | No | String | Topic name |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| topicId | String | Topic ID |
| partitionNum | Int | Number of partitions |
| enableWhiteList | int | Whether to enable IP whitelist. 1: Enable 0: Disable |
| ipWhiteList | array | IP whitelist |
| createTime | Int | Creation time, expressed as timestamp (in second) |
| partitions | Array | Partition details |
| partitions::partition | Int | Partition id |
| partitions :: leaderStatus | Int | Running status of leader |

| Parameter Name | Type | Description |
| --- | --- | --- |
| partitions::replicaNum | array | Number of replicas |
| partitions::isrNum | array | Number of ISRs |

# 4. Example

Input:

```
https://domain/v2/index.php?Action=GetTopicAttributes&instanceId=ckafka-xxooa0&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",

"topicId" : "topic-xxoo234",
"partitionNum" : 2,
"enableWhiteList" : 1,
"ipWhiteList" :["10.0.0.1"],
"partitions" : [
{
"partition":0,
"leaderStatus":1,
"isrNum": 3,
"replicaNum" : 3
},
{
"partition":1,
"leaderStatus":2,
"isrNum": 2,
"replicaNum" : 3
}
]
}
```

# Instance API
# Obtain Instance Attribute

Last updated：2018-01-30 17:20:28

## 1. API Description

This API (GetInstanceAttributes) is used to obtain the attributes of a CKafka instance under the user account.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| instanceId | Yes | String | Instance ID |

## 3. Output Parameters

| Parameter Name | Type | Description |
| --- | --- | --- |
| instanceId | String | Instance ID |
| instanceName | String | Instance name |
| vip | String | vip accessing the instance |
| vport | Int | vport accessing the instance |
| status | Int | Status of instance. 0: Creating; 1: Running; 2: Deleting. |
| bandwith | Int | Instance bandwidth (in Mbps) |
| diskSize | Int | Storage size of instance (in GB) |

| Parameter Name | Type | Description |
| --- | --- | --- |
| vpcId | String | Being left empty means it is a basic network |
| subnetId | String | |
| zoneId | Int | Availability zone |
| maxRetentionTime | Int | The maximum retention time of instance log (in minute) |
| createTime | Int | Creation time, expressed as timestamp (in second) |

# 4. Example

Input:

```
https://domain/v2/index.php?Action=GetInstanceAttributes&instanceId=ckafka-xxxxxx&<Common request parameters>
```

Output:

```
{
"code" : 0,
"message" : "ok",
"codeDesc":"Success",
"instanceId":"ckafka-xxooa0",
"instanceName":"test",
"vip":"10.2.3.2",
"vport":9020,
"zoneId":9020,
"vpcId":"",
"subnetId":"",
"status":0,
"bandwith":100,
"diskSize":100,
"maxRetentionTime":1000
}
```

# Set Instance Attribute

Last updated：2018-06-01 16:21:23

## 1. API Description

This API (SetInstanceAttributes) is used to set the CKafka instance attributes.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| instanceId | Yes | String | Instance ID |
| msgRetentionTime | No | Int | Optional. The maximum retention time of instance log (in minute). The minimum is 1 min, and the maximum is 30 days. |

## 3. Example

Input:

```
https://domain/v2/index.php?Action=SetInstanceAttributes&instanceId=ckafka-xxxxxx&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
}
```

# Access Control API
# Add Topic Whitelist

Last updated：2018-01-30 17:20:10

## 1. API Description

This API (AddTopicIpwhitelist) is used to add a whitelist for a topic.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
|---|---|---|---|
| instanceId | Yes | String | Instance ID |
| topicName | Yes | String | Topic name |
| ipWhiteList.n | Yes | String | Required. IP whitelist |

## 3. Example

Input:

```
https://domain/v2/index.php?Action=AddTopicIpwhitelist&instanceId=ckafka-xxooa0&topicName=tinatest&ipWhiteList.n=111.111.111.11&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
}
```

Note: If the IP whitelist is empty, all the IPs are not allowed to access this topic. Otherwise, only the IPs in the whitelist are allowed. This API adds the IPs in ipWhiteList to the existing whitelist.

# Delete Topic Whitelist

Last updated：2018-01-30 17:19:47

## 1. API Description

This API (DeleteTopicIpwhitelist) is used to delete whitelist of a topic.

Domain name for API request: ckafka.api.qcloud.com

## 2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

| Parameter Name | Required | Type | Description |
| --- | --- | --- | --- |
| instanceId | Yes | String | Instance ID |
| topicName | Yes | String | Topic name |
| Ip.n | Yes | String | Required. IP whitelist |

## 3. Example

Input:

```
https://domain/v2/index.php?Action=DeleteTopicIpwhitelist&instanceId=ckafka-xxooa0&topicName=tinatest&ip.n=111.111.111.11&<Common request parameters>
```

Output:

```
{
"code" : 0,
"codeDesc":"Success"
"message" : "ok",
}
```

Note: This API deletes the IPs in ipWhiteList from the existing whitelist.