

# Alibaba Cloud

Message Queue for Apache  
Kafka  
API reference








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# Document conventions

Style	Description	Example
 <b>Danger</b>	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
 <b>Warning</b>	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 <b>Notice</b>	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
 <b>Note</b>	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click <b>Settings &gt; Network &gt; Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
<code>Courier font</code>	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[ ] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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# 1. List of operations by function

This topic provides API operations available for use in Message Queue for Apache Kafka.

## Instances

Operation	Description
<a href="#">GetInstanceList</a>	Queries Message Queue for Apache Kafka instances in a specified region.
<a href="#">StartInstance</a>	Deploys a Message Queue for Apache Kafka instance.
<a href="#">ModifyInstanceName</a>	Changes the name of a Message Queue for Apache Kafka instance.
<a href="#">CreatePrePayOrder</a>	Creates a subscription Message Queue for Apache Kafka instance.
<a href="#">DeleteInstance</a>	Deletes a Message Queue for Apache Kafka instance.
<a href="#">UpgradePrePayOrder</a>	Upgrades a subscription Message Queue for Apache Kafka instance.

## Topics

Operation	Description
<a href="#">CreateTopic</a>	Creates a topic.
<a href="#">DeleteTopic</a>	Deletes a topic.
<a href="#">GetTopicList</a>	Queries topics.
<a href="#">GetTopicStatus</a>	Queries the message sending and receiving status of a topic.

## Consumer groups

Operation	Description
<a href="#">CreateConsumerGroup</a>	Creates a consumer group.
<a href="#">DeleteConsumerGroup</a>	Deletes a consumer group.
<a href="#">GetConsumerList</a>	Queries consumer groups.
<a href="#">GetConsumerProgress</a>	Queries the consumption status of a consumer group.

## Tags

Operation	Description
<a href="#">ListTagResources</a>	Queries the tags bound to a resource.
<a href="#">TagResources</a>	Creates and binds a tag to a resource.

Operation	Description
<a href="#">UntagResources</a>	Unbinds and deletes a tag from a resource.

## 2.API release notes

This topic describes the releases and descriptions of all the versions of the API for Message Queue for Apache Kafka.

API version	Release date	Description
V1.0.0	March 31, 2020	<p>First release. Supported operations include:</p> <ul style="list-style-type: none"><li>• Instances<ul style="list-style-type: none"><li>◦ <a href="#">GetInstanceList</a></li><li>◦ <a href="#">CreatePrePayOrder</a></li><li>◦ <a href="#">StartInstance</a></li><li>◦ <a href="#">UpgradePrePayOrder</a></li><li>◦ <a href="#">ModifyInstanceName</a></li><li>◦ <a href="#">DeleteInstance</a></li></ul></li><li>• Topic<ul style="list-style-type: none"><li>◦ <a href="#">CreateTopic</a></li><li>◦ <a href="#">GetTopicList</a></li><li>◦ <a href="#">DeleteTopic</a></li><li>◦ <a href="#">GetTopicStatus</a></li></ul></li><li>• Consumer Group<ul style="list-style-type: none"><li>◦ <a href="#">GetConsumerProgress</a></li><li>◦ <a href="#">CreateConsumerGroup</a></li><li>◦ <a href="#">DeleteConsumerGroup</a></li><li>◦ <a href="#">GetConsumerList</a></li></ul></li><li>• Tags<ul style="list-style-type: none"><li>◦ <a href="#">ListTagResources</a></li><li>◦ <a href="#">TagResources</a></li><li>◦ <a href="#">UntagResources</a></li></ul></li></ul>



# 3.Call method

Message Queue for Apache KafkaWhen you call an API,Message Queue for Apache KafkaTo send an HTTP request and add the corresponding request parameters to the request according to the API description. After the call, the system returns the processing result. Requests and returned results are encoded using the UTF-8 character set.

## Request structure

Message Queue for Apache KafkaAs an rpc api. You can call the API by sending an HTTP request.Message Queue for Apache KafkaAPI.

The request structure is as follows:

```
http://Endpoint/? Action=xx&Parameters
```

Where:


- Endpoint :Message Queue for Apache KafkaThe endpoint of the API. The access addresses for different regions are shown in the following table.

### Message Queue for Apache Kafka Endpoints

Region name	RegionId	Domain
Singapore	ap-southeast-1	alikafka.ap-southeast-1.aliyuncs.com

- Action: The operation to perform. For example, callGetInst anceList Query createdMessage Queue for Apache KafkaInst ance.
- Version: The version of the API. Message Queue for Apache KafkaThe API version of IS2019-09-16.
- Parameters: Request parameters. Separate multiple parameters with ampersands (&). A request parameter consists of common request parameters and API-specific parameters. Common parameters include the API version, credentials, and other information. For more information, seeCommon parameters.

The following is a callGetInst anceList Query createdMessage Queue for Apache KafkaExample:

 **Note** The following examples have been formatted for ease of viewing.

```
https://alikafka.aliyuncs.com/? Action=GetInstanceList
&Format=JSON
&Version=2019-09-16
&Signature=xxxx%xxxx%%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=87dacc12d1a92bb296d2b398b454884b
&SignatureVersion=1.0
&AccessKeyId=key-test
&Timestamp=2020-01-06T09
...
```

## API authorization

To ensure the security of your account, we recommend that you use the identity credentials of the RAM user to call the API. If you use a RAM account to call Message Queue for Apache Kafka, you must create and attach corresponding authorization policies to the RAM account.

Message Queue for Apache Kafka For a list of resources and APIs that can be authorized, see [RAM user authorization](#).

## API Signature

For each HTTP or HTTPS request, we verify the identity of the requester based on the signature information in the request. Specifically, the AccessKeyId and AccessKeySecret of the AccessKey are used for symmetric encryption and verification. Message Queue for Apache Kafka By using the AccessKey ID and AccessKey Secret, symmetric encryption is performed to authenticate the request sender. An AccessKey is an identity credential issued for Alibaba cloud accounts and RAM users (similar to a logon password). The AccessKey ID is used to identify the identity of the visitor. The AccessKey Secret is the key used to encrypt the signature string and verify the signature string on the server. It must be kept strictly confidential. For more information about the API signature method, see [Request signatures](#).

## 4. API call through the SDK

Message Queue for Apache Kafka provides API operations to query information about instances, topics, and consumer groups.

This topic uses the Java SDK as an example to describe how to obtain the Message Queue for Apache Kafka SDK, set common parameters, and use the SDK.

### Obtain the SDK

- Obtain the SDK by using a project build tool:

<b>Maven</b>	Gradle	SBT	Ivy	Grape	Leiningen	Buidler
--------------	--------	-----	-----	-------	-----------	---------

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.4.9</version>
</dependency>
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-alikafka</artifactId>
  <version>1.2.4</version>
</dependency>
```

Obtain the SDK by downloading dependency JAR packages:

- - [aliyun-java-sdk-core-4.4.9.jar](#)
  - [aliyun-java-sdk-alikafka-1.2.4.jar](#)

### Set common parameters

To construct and start the client, you need to configure a series of parameters, as shown in the following example:

```
public static void main(String[] args) {
    // Build a client.
    IAcsClient iAcsClient = buildAcsClient();
}

private static IAcsClient buildAcsClient() {
    // The AccessKey ID used for authentication. You can obtain it in the Alibaba Cloud console.
    String accessKey = "XXXXXX";
    // The AccessKey secret used for authentication. You can obtain it in the Alibaba Cloud console.
    String secretKey = "XXXXXX";

    // Product code. The product code of Message Queue for Apache Kafka is the constant value "alikafka".
    String productName = "alikafka";

    // The region where the API gateway is located. Currently, cn-beijing and cn-hangzhou are supported.
    String regionId = "cn-beijing";
    // The name of the endpoint. It is the same as the region ID.
    String endPointName = "cn-beijing";
    // The domain name corresponding to the endpoint.
    String domain = "alikafka.cn-beijing.aliyuncs.com";

    try {
        DefaultProfile.addEndpoint(endPointName, regionId, productName, domain);
    } catch (ClientException e) {
        //log error
    }
    // Construct a client.
    IClientProfile profile = DefaultProfile.getProfile(regionId, accessKey, secretKey);
    return new DefaultAcsClient(profile);
}
```

## Endpoints

Region	RegionId	Domain
China (Hangzhou)	cn-hangzhou	alikafka.cn-hangzhou.aliyuncs.com
China (Shanghai)	cn-shanghai	alikafka.cn-shanghai.aliyuncs.com
China (Qingdao)	cn-qingdao	alikafka.cn-qingdao.aliyuncs.com
China (Beijing)	cn-beijing	alikafka.cn-beijing.aliyuncs.com

---

Region	RegionId	Domain
China (Zhangjiakou-Beijing Winter Olympics)	cn-zhangjiakou	alikafka.cn-zhangjiakou.aliyuncs.com
China (Hohhot)	cn-huhehaote	alikafka.cn-huhehaote.aliyuncs.com
China (Shenzhen)	cn-shenzhen	alikafka.cn-shenzhen.aliyuncs.com
China (Hong Kong)	cn-hongkong	alikafka.cn-hongkong.aliyuncs.com
Singapore (Singapore)	ap-southeast-1	alikafka.ap-southeast-1.aliyuncs.com

## Limits

The queries per second (QPS) limit on a single API operation is 3 per user.

## 5. Endpoints

This topic lists the region IDs and domains of the Message Queue for Apache Kafka API.

Region	Region ID	Domain
China (Hangzhou)	cn-hangzhou	alikafka.cn-hangzhou.aliyuncs.com
China (Shanghai)	cn-shanghai	alikafka.cn-shanghai.aliyuncs.com
China (Qingdao)	cn-qingdao	alikafka.cn-qingdao.aliyuncs.com
China (Beijing)	cn-beijing	alikafka.cn-beijing.aliyuncs.com
China (Zhangjiakou-Beijing Winter Olympics)	cn-zhangjiakou	alikafka.cn-zhangjiakou.aliyuncs.com
China (Hohhot)	cn-huhehaote	alikafka.cn-huhehaote.aliyuncs.com
China (Shenzhen)	cn-shenzhen	alikafka.cn-shenzhen.aliyuncs.com
China (Heyuan)	cn-heyuan	alikafka.cn-heyuan.aliyuncs.com
China (Chengdu)	cn-chengdu	alikafka.cn-chengdu.aliyuncs.com
China (Hong Kong)	cn-hongkong	alikafka.cn-hongkong.aliyuncs.com
Singapore (Singapore)	ap-southeast-1	alikafka.ap-southeast-1.aliyuncs.com
Malaysia (Kuala Lumpur)	ap-southeast-3	alikafka.ap-southeast-3.aliyuncs.com
Indonesia (Jakarta)	ap-southeast-5	alikafka.ap-southeast-5.aliyuncs.com
Japan (Tokyo)	ap-northeast-1	alikafka.ap-northeast-1.aliyuncs.com
Germany (Frankfurt)	eu-central-1	alikafka.eu-central-1.aliyuncs.com
UK (London)	eu-west-1	alikafka.eu-west-1.aliyuncs.com
US (Silicon Valley)	us-west-1	alikafka.us-west-1.aliyuncs.com
US (Virginia)	us-east-1	alikafka.us-east-1.aliyuncs.com
India (Mumbai)	ap-south-1	alikafka.ap-south-1.aliyuncs.com

## 6. Sample requests

This topic provides an example of how to construct parameters and a signature by using Java and send a POST request. The construction procedure in Java is similar to those in other languages.

### Examples

```
private static final String ISO8601_DATE_FORMAT = "yyyy-MM-dd'T'HH:mm:ss'Z'";
private static final String ENCODING = "UTF-8";
private static final String HTTP_METHOD = "POST";
// The ID of the region where the purchased instance is located.
private static final String REGION_ID = "cn-xxxxxx";
private static final String ACCESS_KEY = "xxxxxx";
private static final String ACCESS_KEY_SECRET = "xxxxxx";

public static void main(String[] args) {
    try {
        // 1. Set parameters.
        Map<String, String> parameters = buildCommonParams();
        // 2. Arrange the request parameters in alphabetical order.
        String[] sortedKeys = sortParamsToArray(parameters);
        // 3. Create a string-to-sign.
        String stringToSign = buildSignString(parameters, sortedKeys);
        // 4. Calculate the signature string.
        String signature = calculateSignature(stringToSign);
        // 5. Add the signature string to the request as a parameter.
        parameters.put("Signature", signature);
        // 6. Send a POST request.
        String result = post(String.format("http://alikafka.%s.aliyuncs.com/", REGION_ID), parameters);
        // 7. Verify the results.
        System.out.println(result);
    } catch (Throwable throwable) {
        throwable.printStackTrace();
    }
}

private static Map<String, String> buildCommonParams() {
    Map<String, String> parameters = Maps.newHashMap();
    // Action: specifies the request method.
    // GetInstanceList: queries the instance information. GetConsumerList: queries consumer groups. GetTopicList: queries topics. GetTopicStatus: queries the topic status.
```

```

    // GetConsumerProgress: queries the consumption status. CreateTopic: creates a topic. CreateConsumer
    Group: creates a consumer group.
    parameters.put("Action", "GetInstanceList");
    // API version: "2018-10-15"
    parameters.put("Version", "2018-10-15");
    // Request parameter: RegionId is required.
    // Ensure that all the parameters of the API are specified, such as InstanceId, Topic, and ConsumerId.
    // parameters.put("InstanceId", "cn-huhehaote");
    // parameters.put("Topic", "cn-huhehaote");
    // parameters.put("Remark", "cn-huhehaote");
    // parameters.put("ConsumerId", "cn-huhehaote");
    parameters.put("RegionId", REGION_ID);
    parameters.put("AccessKeyId", ACCESS_KEY);
    // Timestamp, in the format of yyyy-MM-dd'T'HH:mm:ss'Z'.
    parameters.put("Timestamp", formatIso8601Date(new Date()));
    parameters.put("SignatureMethod", "HMAC-SHA1");
    parameters.put("SignatureVersion", "1.0");
    parameters.put("SignatureNonce", UUID.randomUUID().toString());
    parameters.put("Format", "json");
    return parameters;
}

private static String[] sortParamsToArray(Map<String, String> parameters) {
    String[] sortedKeys = parameters.keySet().toArray(new String[]{});
    Arrays.sort(sortedKeys);
    return sortedKeys;
}

private static String buildSignString(Map<String, String> parameters,
    String[] sortedKeys) throws UnsupportedOperationException {
    StringBuilder stringToSign = new StringBuilder();
    String SEPARATOR = "&";
    stringToSign.append(HTTP_METHOD).append(SEPARATOR);
    stringToSign.append(percentEncode("/")).append(SEPARATOR);
    StringBuilder canonicalizedQueryString = new StringBuilder();
    for(String key : sortedKeys) {
        // Encode the key and the value.
        canonicalizedQueryString.append("&")
            .append(percentEncode(key)).append("=")
            .append(percentEncode(parameters.get(key)));
    }
}

```



```

    // Encode the canonicalized query string.
    stringToSign.append(percentEncode(canonicalizedQueryString.toString().substring(1)));
    return stringToSign.toString();
}

private static String calculateSignature(String stringToSign)
    throws NoSuchAlgorithmException, InvalidKeyException, UnsupportedEncodingException {
    String ALGORITHM = "HmacSHA1";
    String ENCODING = "UTF-8";
    // The AccessKey secret of the account.
    String accessKeySecret = ACCESS_KEY_SECRET + "&";
    Mac mac = Mac.getInstance(ALGORITHM);
    mac.init(new SecretKeySpec(accessKeySecret.getBytes(ENCODING), ALGORITHM));
    byte[] signData = mac.doFinal(stringToSign.getBytes(ENCODING));
    return new String(Base64.getEncoder().encode(signData));
}

private static String percentEncode(String value) throws UnsupportedEncodingException {
    return value != null ? URLEncoder.encode(value, ENCODING).replace("+", "%20").replace("'", "%2A").replace("%7E", "~") : null;
}

private static String formatIso8601Date(Date date) {
    SimpleDateFormat df = new SimpleDateFormat(ISO8601_DATE_FORMAT);
    df.setTimeZone(new SimpleTimeZone(0, "GMT"));
    return df.format(date);
}


private static String post(String url, Map<String, String> paramMap) throws IOException {
    Form form = Form.form();
    for (String key : paramMap.keySet()) {
        form.add(key, paramMap.get(key));
    }

    return Request.Post(url).bodyForm(form.build()).connectTimeout(10000).execute().returnContent().asString();
}

```

## 7. Request signatures

You must sign all HTTP or HTTPS API requests to ensure security. Alibaba Cloud uses the request signature to verify the identity of the API caller. Message Queue for Apache Kafka implements symmetric encryption with an AccessKey pair to verify the identity of the request sender. An AccessKey pair is an identity credential issued to Alibaba Cloud accounts and RAM users that is similar to a logon username and password for the Message Queue for Apache Kafka console. An AccessKey pair consists of an AccessKey ID and an AccessKey secret. The AccessKey ID is used to verify the identity of the user, while the AccessKey secret is used to encrypt and verify the signature string. You must keep your AccessKey secret strictly confidential.

 **Note** Message Queue for Apache Kafka provides SDKs in multiple programming languages to automatically calculate the signature string. For more information, see [Download SDKs](#).

### Step 1: Create a canonicalized query string

1. Arrange the request parameters (including all [Common parameters](#) and operation-specific parameters except `Signature`) in alphabetical order.
2. Encode the request parameters and their values in UTF-8 according to RFC 3986. The encoding rules are as follows:
  - Uppercase letters, lowercase letters, digits, and some special characters such as hyphens (-), underscores (\_), periods (.), and tildes (~) do not need to be encoded.
  - Other characters must be percent encoded in `%XY` format. `XY` represents the ASCII code of the characters in hexadecimal notation. For example, double quotation marks (") are encoded as `%22`.
  - Extended UTF-8 characters are encoded in `%XY%ZA...` format.
  - Spaces must be encoded as `%20`. Do not encode spaces as plus signs (+). This encoding method is slightly different from the multipurpose Internet mail extensions (MIME) encoding method that encodes data into the format of `application/x-www-form-urlencoded`. If you choose `java.net.URLEncoder` in the Java standard library, first encode the request parameters and their values by using `percentEncode` in the standard library, and then replace the plus sign (+) with `%20`, the asterisk (\*) with `%2A`, and `%7E` with a tilde (~). In this way, you can obtain an encoded string that matches the preceding encoding rules. The following shows the sample code:

```
private static final String ENCODING = "UTF-8";
private static String percentEncode(String value) throws UnsupportedEncodingException {
    return value != null ? URLEncoder.encode(value, ENCODING).replace("+", "%20").replace("*", "%2A").
        replace("%7E", "~") : null;
}
```

3. Use an equal sign (=) to connect each encoded request parameter and its value.
4. Use an ampersand (&) to connect the encoded request parameters. Note that these parameters must be arranged in the same order as that in Step 1.

Now, you have obtained a canonicalized query string ( `CanonicalizedQueryString` ) whose structure complies with [Request structure](#).


## Step 2: Create a string-to-sign

1. Create a string-to-sign by specifying `StringToSign` . You can also use `percentEncode` to encode the canonicalized query string constructed in the previous step. The rules are as follows:

```
StringToSign=
HTTPMethod + "&" + //HTTPMethod: HTTP method used to make the request, such as POST.
percentEncode("/") + "&" + //percentEncode("/"): Encode backslashes (/) in UTF-8 as %2F.
percentEncode(CanonicalizedQueryString) //Encode the canonicalized query string.
```

2. Calculate the HMAC-SHA1 value of `StringToSign` according to [RFC 2104](#). In this example, the Java Base64 encoding method is used.

```
Signature = Base64( HMAC-SHA1( AccessSecret, UTF-8-Encoding-Of(StringToSign) ) )
```

 **Note** According to RFC 2104, the key used for the calculation is obtained by appending an ampersand (&) to your AccessKey secret. The ASCII value of the ampersand (&) is 38.

3. Add the `Signature` parameter, which is encoded according to the rule specified in [RFC 3986](#), to the canonicalized query string URL.

## Example 1: Concatenate parameters

For example, call the `GetInstanceList` operation to query instances. Assume that you have obtained `AccessKeyId=testid` and `AccessKeySecret=testsecret` . The signature process is as follows:

1. Create a canonicalized query string.

```
http://alikafka.%s.aliyuncs.com/?Timestamp=2016-02-23T12:46:24Z&Format=XML&AccessKeyId=testid
&Action=GetInstanceList&SignatureMethod=HMAC-SHA1&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4
e0ad82fd6cf&Version=2014-05-26&SignatureVersion=1.0
```

2. Create a string-to-sign by specifying `StringToSign` .

```
POST&%2F&AccessKeyId%3Dtestid&Action%3DGetInstanceList&Format%3DXML&SignatureMethod%
3DHMAC-SHA1&SignatureNonce%3D3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf&SignatureVersion%3D1.0
&Timestamp%3D2016-02-23T12%253A46%253A24Z&Version%3D2014-05-26
```

3. Calculate the signature string. According to `AccessKeySecret=testsecret` , the key used for the calculation is `testsecret&` . Therefore, the calculated signature string is `OLeaidS1JvxuMvnyHOwuJ+uX5qY=` . In this example, the Java Base64 encoding method is used.

```
Signature = Base64( HMAC-SHA1( AccessSecret, UTF-8-Encoding-Of(StringToSign) ) )
```

4. Add `Signature=OLeaidS1JvxuMvnyHOwuJ%2BuX5qY%3D` , which is encoded according to RFC 3986, to the URL in step 1.

```
http://alikafka.%s.aliyuncs.com/?SignatureVersion=1.0&Action=GetInstanceList&Format=JSON&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf&Version=2014-05-26&AccessKeyId=testid&Signature=OLeaidS1JvxuMvnyHOwuJ%2BuX5qY%3D&SignatureMethod=HMAC-SHA1&Timestamp=2016-02-23T12%253A46%253A24Z
```

In the preceding URL, you can use tools such as a browser, curl, or wget to initiate an HTTP request to call the `GetInstanceList` operation to view instances in a specified region of Alibaba Cloud.

## Example 2: Use the programming language

For example, call the `GetInstanceList` operation to obtain instances. Assume that you have obtained `AccessKeyId=testid` and `AccessKeySecret=testsecret`, and all request parameters are placed in the `Java Map<String, String>` object.

1. Predefine an encoding method.

```
private static final String ENCODING = "UTF-8";
private static String percentEncode(String value) throws UnsupportedOperationException {
    return value != null ? URLEncoder.encode(value, ENCODING).replace("+", "%20").replace("*", "%2A").replace("%7E", "~") : null;
}
```

2. Predefine the encoding time format by specifying the `Timestamp` parameter. The value of the `Timestamp` parameter must comply with the [ISO 8601](#) standard. The time must be in UTC+0.

```
private static final String ISO8601_DATE_FORMAT = "yyyy-MM-dd'T'HH:mm:ss'Z'";
private static String formatIso8601Date(Date date) {
    SimpleDateFormat df = new SimpleDateFormat(ISO8601_DATE_FORMAT);
    df.setTimeZone(new SimpleTimeZone(0, "GMT"));
    return df.format(date);
}
```

3. Create a query string.

```

final String HTTP_METHOD = "POST";
Map parameters = new HashMap();
// Specify request parameters. parameters.put("Action", "GetInstanceList");
parameters.put("Version", "2014-05-26");
parameters.put("AccessKeyId", "testid");
parameters.put("Timestamp", formatIso8601Date(new Date()));
parameters.put("SignatureMethod", "HMAC-SHA1");
parameters.put("SignatureVersion", "1.0");
parameters.put("SignatureNonce", UUID.randomUUID().toString());
parameters.put("Format", "JSON");
// Arrange the request parameters. String[] sortedKeys = parameters.keySet().toArray(new String[{}]);
Arrays.sort(sortedKeys);
final String SEPARATOR = "&";
// Create a string-to-sign by specifying stringToSign. StringBuilder stringToSign = new StringBuilder();
stringToSign.append(HTTP_METHOD).append(SEPARATOR);
stringToSign.append(percentEncode("/")).append(SEPARATOR);
StringBuilder canonicalizedQueryString = new StringBuilder();
for(String key : sortedKeys) {
// Encode the key and value. canonicalizedQueryString.append("&")
.append(percentEncode(key)).append("=")
.append(percentEncode(parameters.get(key)));
}
// Encode the canonicalized query string. stringToSign.append(percentEncode(
canonicalizedQueryString.toString().substring(1));

```

4. Calculate the signature string. According to `AccessKeySecret=testsecret`, the key used for the HMAC calculation is `testsecret&`. Therefore, the calculated signature string is `OLeaidS1JvxuMvnyHOwuJ%2BuX5qY%3D`.

```

// The following sample code shows how to calculate the signature string.
final String ALGORITHM = "HmacSHA1";
final String ENCODING = "UTF-8";
key = "testsecret&";
Mac mac = Mac.getInstance(ALGORITHM);
mac.init(new SecretKeySpec(key.getBytes(ENCODING), ALGORITHM));
byte[] signData = mac.doFinal(stringToSign.getBytes(ENCODING));
String signature = new String(Base64.encodeBase64(signData));

```

# 8.Common parameters

This topic provides the common request parameters and common response parameters of the Message Queue for Apache Kafka API operations.

## Common request parameters

Common request parameters must be included in all Message Queue for Apache Kafka API requests.

Parameter	Type	Required	Description
Format	String	No	The format in which to return the response. Valid values: JSON and XML. Default value: XML.
Version	String	Yes	The version number of the API. The value must be in the format of YYYY-MM-DD, for example, 2019-09-16.
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud.
Signature	String	Yes	The signature string of the current request.
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to HMAC-SHA1.
Timestamp	String	Yes	The timestamp of the request. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. For example, 20:00:00 on January 10, 2013 (UTC+8) is written as 2013-01-10T12:00:00Z.
SignatureVersion	String	Yes	The version of the signature encryption algorithm. Set the value to 1.0.

Parameter	Type	Required	Description
SignatureNonce	String	Yes	A unique, random number used to prevent replay attacks. You must use different numbers for different requests.

### Sample requests

```
https://alikafka.cn-hangzhou.aliyuncs.com/? Action=GetInstanceList
&Format=JSON
&Version=2019-09-16
&AccessKeyId=key-test
&Signature=Pc5WB8gokVn0xfeu%2FZV%2BiNM1dgl%3D
&SignatureMethod=HMAC-SHA1
&Timestamp=2020-01-01T12:00:00Z
&SignatureNonce=15215528852396
&SignatureVersion=1.0
...
```

### Common response parameters

Every response returns a unique RequestID regardless of whether the call is successful. Responses can be returned in a unified format. API responses use the HTTP response format where a `2xx` status code indicates a successful call and a `4xx` or `5xx` status code indicates a failed call.

#### XML format

```
<? xml version="1.0" encoding="UTF-8"? >
<!--Result Root Node--> <Interface Name+Response> | <!--Return Request Tag-->
| <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
| <!--Return Result Data-->
</Interface Name+Response>
```

#### JSON format

```
{ "RequestId": "4C467B38-3910-447D-87BC-AC049166F216"
  /* Return Result Data */
}
```


# 9. Obtain an AccessKey pair

This topic describes how to create an AccessKey pair for an Alibaba Cloud account or Resource Access Management (RAM) user. Alibaba Cloud uses the AccessKey pair to verify the identity of the API caller.

## Context

An AccessKey pair consists of an AccessKey ID and an AccessKey secret.

- The AccessKey ID is used to verify the identity of the user.
- The AccessKey secret is used to encrypt and verify the signature string. You must keep your AccessKey secret strictly confidential.

 **Warning** If the AccessKey pair of your Alibaba Cloud account is disclosed, the security of your resources will be threatened. We recommend that you use the AccessKey pair of RAM users to call operations. This reduces the risk of disclosing the AccessKey pair of your Alibaba Cloud account.

## Procedure

1. Log on to the [Alibaba Cloud console](#) by using your Alibaba Cloud account.
2. Move the pointer over the account icon in the upper-right corner of the page, and then click **AccessKey**.
3. In the **Security Tips** dialog box, click **Continue** to manage AccessKey or **Get Started with Sub Users' AccessKey** as required.



4. Obtain the AccessKey pair of an account.
  - Obtain the AccessKey pair of an Alibaba Cloud account
    - a. Click **Continue to manage AccessKey**.
    - b. On the **Security Management** page, click **Create AccessKey**.
    - c. On the **Phone Verification** page, click **Send verification code** to obtain the verification code, enter the verification code in the **Verification code** field, and click **Confirm**.
    - d. In the **Create User AccessKey** dialog box, show **AccessKey Details** to view the AccessKey ID and AccessKey secret. You can click **Save AccessKey Information** to download the AccessKey pair.



- Obtain the AccessKey pair of a RAM user
  - a. Click **Get Started with Sub Users' AccessKey**.
  - b. If no RAM user is available, click **Create User** in the **RAM console**, to create a RAM user. If you need to obtain the AccessKey pair of an existing RAM user, skip this step.
  - c. In the left-side navigation pane of the **RAM console**, choose **Identities > Users**.
  - d. Find the target user and click the logon name. On the **Basic Information** page, click the **Authentication** tab. In the **User AccessKeys** section, click **Create AccessKey**.
  - e. On the **Phone Verification** page, click **Send verification code** to obtain the verification code, enter the verification code in the **Verification code** field, and click **Confirm**.



- f. In the **Create AccessKey** dialog box, view the AccessKey ID and AccessKey secret. You can click **Download CSV File** to download the AccessKey pair, or click **Copy** to copy the AccessKey pair.

# 10.Instances

## 10.1. CreatePrePayOrder

You can call this operation to create a subscription Message Queue for Apache Kafka instance.

### Debugging

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreatePrePayOrder	The operation that you want to perform. Set the value to CreateMasterSlaveServerGroup. Set the value to <b>CreatePrePayOrder</b> .
DeployType	Integer	Yes.	4	The deployment mode of the Message Queue for Apache Kafka instance. Valid values: <b>5</b> : Instance of the VPC type
DiskSize	Integer	Yes.	900	The size of the disk to be configured for the Message Queue for Apache Kafka instance.
DiskType	String	Yes	1	The type of the disk to be configured for the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li><b>0</b>: Ultra disk</li> <li><b>1</b>:SSD</li> </ul>
IoMax	Integer	Yes.	20	The peak traffic to be configured for the Message Queue for Apache Kafka instance. For more information about the value range, see <a href="#">Billing</a> .
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance.

Parameter	Type	Required	Example	Description
TopicQuota	Integer	Yes.	50	The number of topics to be configured for the Message Queue for Apache Kafka instance. The default value of this parameter varies with different peak traffic values. Additional fees are charged if the default values are exceeded. Different specifications have different default values, and extra fees are charged. For more information, see <a href="#">Billing</a> .
EipMax	Integer	No	40	The public traffic to be configured for the Message Queue for Apache Kafka instance. This parameter must be specified when the DeployType parameter is set to 4.
SpecType	String	No	professional	The edition of the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li><b>professional</b>: Professional Edition</li> <li><b>normal</b>: Normal version</li> </ul>

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
OrderId	String	20497346575****	The order ID of the Message Queue for Apache Kafka instance.
RequestId	String	06084011-E093-46F3-A51F-4B19A8AD****	The request ID.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=CreatePrePayOrder
&DeployType=4
&diskSize=5
&DiskType=1
&IoMax=20
&RegionId=cn-hangzhou
&TopicQuota=50
&<Common request parameters>
```

Sample success responses

XML format

```
<Message>operation success. </Message>
<OrderId>203377778550296</OrderId>
<RequestId>06084011-E093-46F3-A51F-4B19A8AD7A94</RequestId>
<Success>>true</Success>
<Code>200</Code>
```

JSON format

```
{
  "Message": "operation success.",
  "OrderId": "204973465750800",
  "RequestId": "06084011-E093-46F3-A51F-4B19A8AD7A94",
  "Success": true,
  "Code": "200"
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 10.2. StartInstance

You can call this operation to deploy a Message Queue for Apache Kafka instance.

## Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StartInstance	The operation that you want to perform. Set the value to StartInstance.
DeployModule	String	Yes	vpc	<p>The deployment mode of the Message Queue for Apache Kafka instance. Valid values:</p> <ul style="list-style-type: none"> <li><b>vpc</b>: deployment on the Virtual Private Cloud (VPC)</li> <li><b>eip</b>: deployment on the Internet and VPC</li> </ul> <p><b>Note:</b> The deployment mode must be consistent with the instance type of the Message Queue for Apache Kafka instance. A Message Queue for Apache Kafka instance of the VPC type is to be deployed in the <b>vpc</b> mode. A Message Queue for Apache Kafka instance of the Internet and VPC type is to be deployed in the <b>eip</b> mode.</p>
Instanceid	String	Yes	alikaafka_post-cn-v0h1fgs2****	The ID of the Message Queue for Apache Kafka instance to be deployed.
Regionid	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is to be deployed.
Vpcid	String	Yes	vpc-bp1r4eg3yrxmygv****	The ID of the VPC where the Message Queue for Apache Kafka instance is to be deployed.
VSwitchid	String	Yes	vsw-bp1j3sg5979fstnpl****	The ID of the VSwitch associated with the VPC where the Message Queue for Apache Kafka instance is to be deployed.
Zoneld	String	Yes	zonea	<p>The ID of the zone where the Message Queue for Apache Kafka instance is to be deployed.</p> <p>The zone ID of the Message Queue for Apache Kafka instance must be the same as that of the VSwitch.</p>

Parameter	Type	Required	Example	Description
IsEipInner	Boolean	No	false	<p>Specifies whether the Message Queue for Apache Kafka instance can be deployed in the eip mode, or in other words, supports elastic IP (EIP) addresses. Valid values:</p> <ul style="list-style-type: none"> <li><b>true:</b> The Message Queue for Apache Kafka instance is of the Internet and VPC type, and therefore can be deployed in the eip mode.</li> <li><b>false:</b> The Message Queue for Apache Kafka instance is of the VPC type, and therefore cannot be deployed in the eip mode.</li> </ul> <p><b>Note:</b> The support for the eip mode must be consistent with the instance type of the Message Queue for Apache Kafka instance.</p>
IsSetUserAndPassword	Boolean	No	false	<p>Specifies whether to set a new user name and password for the Message Queue for Apache Kafka instance. Valid values:</p> <ul style="list-style-type: none"> <li><b>true:</b> Set a new user name and password.</li> <li><b>false:</b> Do not set a new user name and password.</li> </ul> <p><b>Note:</b> This parameter only takes effect when the DeployModule parameter is set to eip.</p>
Username	String	No	username	<p>The new user name for the Message Queue for Apache Kafka instance.</p> <p><b>Note:</b> This parameter only takes effect when the DeployModule parameter is set to eip.</p>
Password	String	No	password	<p>The new password for the Message Queue for Apache Kafka instance.</p> <p><b>Note:</b> This parameter only takes effect when the DeployModule parameter is set to eip.</p>
Name	String	No	newInstanceName	<p>The new name of the Message Queue for Apache Kafka instance.</p>

### Response parameters

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

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
RequestId	String	ABA4A7FD-E10F-45C7-9774-A5236015A923	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=StartInstance
&DeployModule=vpc
&InstanceId=alikafka_post-cn-v0h1fgs2****
&RegionId=cn-hangzhou
&VpcId=vpc-bp1r4eg3yrxmygv****
&VSwitchId=vsw-bp1j3sg5979fstnpl****
&ZoneId=zonea
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<Message>operation success. </Message>
<RequestId>ABA4A7FD-E10F-45C7-9774-A5236015A923</RequestId>
<Success>>true</Success>
<Code>200</Code>
```

#### JSON format

```
{
  "Message": "operation success.",
  "RequestId": "ABA4A7FD-E10F-45C7-9774-A5236015A923",
  "Success": true,
  "Code": 200
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

## 10.3. UpgradePrePayOrder

You can call this operation to upgrade a subscription Message Queue for Apache Kafka instance.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpgradePrePayOrder	The operation that you want to perform. Set the value to UpgradePrePayOrder.
DiskSize	Integer	Yes	900	The size of the disk to be configured for the Message Queue for Apache Kafka instance. <b>Note:</b> The specified disk size must be at least the current disk size of the Message Queue for Apache Kafka instance.
EipMax	Integer	Yes	20	The public traffic to be configured for the Message Queue for Apache Kafka instance. <b>Note:</b> The specified public traffic must be at least the current public traffic configured for the Message Queue for Apache Kafka instance.
Instanceld	String	Yes	alibabacloud-post-cn-mp919o4v****	The ID of the Message Queue for Apache Kafka instance.
IoMax	Integer	Yes	40	The peak traffic to be configured for the Message Queue for Apache Kafka instance. <b>Note:</b> The specified peak traffic must be at least the current peak traffic configured for the Message Queue for Apache Kafka instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is to be upgraded.



Parameter	Type	Required	Example	Description
TopicQuota	Integer	Yes	50	The number of topics to be configured for the Message Queue for Apache Kafka instance. <b>Note:</b> The specified number of topics must be at least the current number of topics for the Message Queue for Apache Kafka instance.
SpecType	String	No	professional	The edition of the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li><b>professional:</b> Professional Edition</li> <li><b>normal:</b> Standard Edition</li> </ul> <b>Note:</b> A Message Queue for Apache Kafka instance can only be upgraded from the Standard Edition to the Professional Edition, but cannot be downgraded from the Professional Edition to the Standard Edition.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
RequestId	String	ABA4A7FD-E10F-45C7-9774-A5236015****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```

http(s)://[Endpoint]/? Action=UpgradePrePayOrder
&DiskSize=900
&EipMax=20
&InstanceId=alikafka_post-cn-mp919o4v****
&IoMax=40
&RegionId=cn-hangzhou
&TopicQuota=50
&<Common request parameters>

```

### Sample success responses

**XML format**

```
<Message>operation success. </Message>
<RequestId>0220FACD-4D57-4F46-BA77-AD333498****</RequestId>
<Success>true</Success>
<Code>200</Code>
```

**JSON format**

```
{
  "Message": "operation success.",
  "RequestId": "0220FACD-4D57-4F46-BA77-AD333498****",
  "Success": true,
  "Code": 200
}
```

**Error codes**

For a list of error codes, visit the [API Error Center](#).

# 10.4. ModifyInstanceName

You can call this operation to change the name of a Message Queue for Apache Kafka instance.

**Debugging**

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

**Request parameters**

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyInstanceName	The operation that you want to perform. Set the value to ModifyInstanceName.
InstanceId	String	Yes	alikafka_post-cn-v0h1fgs2****	The ID of the Message Queue for Apache Kafka instance.

Parameter	Type	Required	Example	Description
InstanceName	String	Yes	dev-test	The new name of the Message Queue for Apache Kafka instance. The value of this parameter must meet the following requirements: <ul style="list-style-type: none"> <li>The name can only contain letters, digits, hyphens (-), and underscores (_).</li> <li>The name must be 3 to 64 characters in length, and will be automatically truncated if it contains more characters.</li> </ul>
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance.

## Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.
RequestId	String	06084011-E093-46F3-A51F-4B19A8AD****	The ID of the request.
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=ModifyInstanceName
&InstanceId=alikafka_post-cn-v0h1fgs2****
&InstanceName=dev-test
&RegionId=cn-hangzhou
&<Common request parameters>
```

### Sample success responses

XML format

```
<Message>operation success. </Message>
<RequestId>06084011-E093-46F3-A51F-4B19A8AD7A94</RequestId>
<Success>>true</Success>
<Code>200</Code>
```

#### JSON format

```
{
  "Message": "operation success.",
  "RequestId": "06084011-E093-46F3-A51F-4B19A8AD7A94",
  "Success": true,
  "Code": 200
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 10.5. GetInstanceList

You can call this operation to query Message Queue for Apache Kafka instances in a specified region.

## Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetInstanceList	The operation that you want to perform. Set the value to CreateMasterSlaveServerGroup.
RegionId	String	Yes	cn-hangzhou	The ID of the region where you want to query Message Queue for Apache Kafka instances.
OrderId	String	No	test	The order ID of the Message Queue for Apache Kafka instance.
InstanceId.N	RepeatList	No	alikafka_post-cn-mp91gnw0p***	The ID of Message Queue for Apache Kafka instance N.
Tag.N.Key	String	No	test	The key of tag N bound to the Message Queue for Apache Kafka instance.

Parameter	Type	Required	Example	Description
Tag.N.Value	String	No	test	The value of tag N bound to the Message Queue for Apache Kafka instance.

## Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.
RequestId	String	4B6D821D-7F67-4CAA-9E13-A5A997C3519B	The ID of the request.
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
InstanceList	Array		The returned list of Message Queue for Apache Kafka instances.
InstanceId	String	alikafka_pre-cn-mp919o4v****	The ID of the Message Queue for Apache Kafka instance.
RegionId	String	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance.
ServiceStatus	Integer	5	The status of the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li>0: To be deployed</li> <li>1: Being deployed</li> <li>5: Running</li> <li>15: Expired</li> </ul>
VpcId	String	vpc-bp1ojac7bv448nifjl** *	The ID of the Virtual Private cCloud (VPC) where the Message Queue for Apache Kafka instance is deployed.
VSwitchId	String	vsw-bp1fvuw0ljd7vzmo3d***	The ID of the VSwitch associated with the VPC where the Message Queue for Apache Kafka instance is deployed.
EndPoint	String	192.168.0.***:9092,192.168.0.***:9092,192.168.0.***:9092,192.168.0.***:9092	The default endpoint of the Message Queue for Apache Kafka instance.

Parameter	Type	Example	Description
CreateTime	Long	1577961819000	The time when the Message Queue for Apache Kafka instance was created.
ExpiredTime	Long	1893581018000	The time when the Message Queue for Apache Kafka instance expires.
DeployType	Integer	5	The deployment mode of the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li>• 4: Instance of the Internet and VPC type</li> <li>• 5: Instance of the VPC type</li> </ul>
SslEndPoint	String	47.111.**. **:9093,121.40.**. **:9093,47.111.**. **:9093	The SSL endpoint of the Message Queue for Apache Kafka instance.
Name	String	alikafka_post-cn-mp91gnwOp***	The name of the Message Queue for Apache Kafka instance.
IoMax	Integer	20	The peak traffic configured for the Message Queue for Apache Kafka instance.
EipMax	Integer	20	The peak public traffic configured for the Message Queue for Apache Kafka instance.
DiskType	Integer	1	The type of the disk configured for the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li>• 0: Ultra disk</li> <li>• 1: SSD</li> </ul>
DiskSize	Integer	3600	The size of the disk configured for the Message Queue for Apache Kafka instance.
MsgRetain	Integer	72	The retention period of a message in a Message Queue for Apache Kafka instance.
TopicNumLimit	Integer	180	The maximum number of topics that can be configured for the Message Queue for Apache Kafka instance.
Zoneld	String	zonei	The zone ID of the Message Queue for Apache Kafka instance.

Parameter	Type	Example	Description
PaidType	Integer	1	The billing mode of the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li><b>0</b>: Subscription</li> <li><b>1</b>: Pay-as-you-go</li> </ul>
SpecType	String	professional	The edition of the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li><b>professional</b>: Professional Edition</li> <li><b>normal</b>: Standard Edition</li> </ul>
UpgradeServiceDetailInfo	Array		The upgrade information of the Message Queue for Apache Kafka instance.
Current2OpenSourceVersion	String	2.2.0	The open-source Apache Kafka version to which the Message Queue for Apache Kafka instance is targeted.
Tags	Array		The tags bound to the Message Queue for Apache Kafka instance.
Key	String	test	The key of the tag bound to the Message Queue for Apache Kafka instance.
Value	String	test	The value of the tag bound to the Message Queue for Apache Kafka instance.

## Examples

### Sample requests

```

http(s)://[Endpoint]/? Action=GetInstanceList
&RegionId=cn-hangzhou
&Tag"Key":[{"Key":"test","Value":"test"}]
&InstanceId=alikafka_post-cn-mp91gnw0p***
&<Common request parameters>

```

### Sample success responses

XML format

```

<Message>operation success. </Message> <RequestId>99B647DF-3F59-4A1F-8C1C-8CD4EBDC738B</Request
Id>
<Success>>true</Success>
<Code>200</Code>
<InstanceList>
  <InstanceVO>
    <DeployType>5</DeployType>
    <SpecType>professional</SpecType>
    <PaidType>1</PaidType>
    <InstanceId>alikafka_post-cn-mp91gnw0p***</InstanceId>
    <MsgRetain>72</MsgRetain>
    <ZoneId>zonei</ZoneId>
    <IoMax>160</IoMax>
    <VSwitchId>vsw-bp1fvuw0ljd7vzmo3d***</VSwitchId>
    <VpcId>vpc-bp1ojac7bv448nifjl***</VpcId>
    <UpgradeServiceDetailInfo>
      <Current2OpenSourceVersion>2.2.0</Current2OpenSourceVersion>
    </UpgradeServiceDetailInfo>
    <ServiceStatus>5</ServiceStatus>
    <Name>alikafka_post-cn-mp91gnw0p026</Name>
    <Tags>
      <TagVO>
        <Value>test</Value>
        <Key>test</Key>
      </TagVO>
    </Tags>
    <TopicNumLimit>180</TopicNumLimit>
    <DiskSize>3600</DiskSize>
    <RegionId>cn-hangzhou</RegionId>
    <CreateTime>1577961819000</CreateTime>
    <SslEndPoint>47.111. **. **:9093,121.40. **, **:9093,47.111. **, **:9092</SslEndPoint>
    <EipMax>20</EipMax>
    <EndPoint>192.168.0. **:9092,192.168.0. **:9092,192.168.0. **:9092,192.168.0. **:9092</EndPoint>
    <ExpiredTime>1893581018000</ExpiredTime>
    <DiskType>1</DiskType>
  </InstanceVO>
</InstanceList>

```

JSON format



```
{
  "Message": "operation success.",
  "RequestId": "99B647DF-3F59-4A1F-8C1C-8CD4EBDC738B",
  "Success": true,
  "Code": 200,
  "InstanceList": {
    "InstanceVO": [
      {
        "DeployType": 5,
        "SpecType": "professional",
        "PaidType": 1,
        "InstanceId": "alikafka_post-cn-mp91gnw0p***",
        "MsgRetain": 72,
        "ZoneId": "zonei",
        "IoMax": 160,
        "VSwitchId": "vsw-bp1fvuw0ljd7vzmo3d***",
        "VpcId": "vpc-bp1ojac7bv448nifjl***",
        "UpgradeServiceDetailInfo": {
          "Current2OpenSourceVersion": "2.2.0"
        },
        "ServiceStatus": 5,
        "Name": "alikafka_post-cn-mp91gnw0p026",
        "Tags": {
          "TagVO": [
            {
              "Value": "test",
              "Key": "test"
            }
          ]
        },
        "TopicNumLimit": 180,
        "DiskSize": 3600,
        "RegionId": "cn-hangzhou",
        "CreateTime": 1577961819000,
        "SslEndPoint": "47.111. **. **:9093,121.40. **. **:9093,47.111. **. **:9092",
        "EipMax": "20",
        "EndPoint": "192.168.0. ***:9092,192.168.0. ***:9092,192.168.0. ***:9092,192.168.0. ***:9092",
        "ExpiredTime": 1893581018000,
        "DiskType": 1
      }
    ]
  }
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 10.6. DeleteInstance

You can call this operation to delete a Message Queue for Apache Kafka instance.

## Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteInstance	The operation that you want to perform. Set the value to DeleteInstance.
InstanceId	String	Yes	alikafka_post-cn-mp919o4v****	The ID of the Message Queue for Apache Kafka instance to be deleted.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is to be deleted.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
RequestId	String	ABA4A7FD-E10F-45C7-9774-A5236015****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteInstance
&InstanceId=alikafka_post-cn-mp919o4v****
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

**XML** format

```
<Message>operation success. </Message>
<RequestId>ABA4A7FD-E10F-45C7-9774-A523601****</RequestId>
<Success>>true</Success>
<Code>200</Code>
```

**JSON** format

```
{
  "Message": "operation success.",
  "RequestId": "ABA4A7FD-E10F-45C7-9774-A523601****",
  "Success": true,
  "Code": 200
}
```

## Error codes

HTTP status code	Error code	Error message	Description
500	InternalServerError	An internal error occurred; please try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the [API Error Center](#).

## 10.7. GetAllowedIpList

You can call this operation to obtain an IP address whitelist.

### Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetAllowedIpList	The operation that you want to perform. Set the value to GetAllowedIpList.
InstanceId	String	Yes	alikafka_post-cn-mp91inkw****	The ID of the Message Queue for Apache Kafka instance whose IP address whitelist you want to obtain.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance whose IP address whitelist you want to obtain.

## Response parameters

Parameter	Type	Example	Description
AllowedList	Struct		The returned IP address whitelist.
DeployType	Integer	4	The deployment mode of the Message Queue for Apache Kafka instance. Valid values: <ul style="list-style-type: none"> <li>4: deployment on the Internet and Virtual Private Cloud (VPC)</li> <li>5: deployment on the VPC</li> </ul> <b>Note:</b> This parameter is necessary only for integrator customers.
InternetList	Array		The details of the returned IP address whitelist of the Internet type.
AllowedIpList	List	0.0.0.0/0	The returned IP address whitelist.
PortRange	String	9093/9093	The port number range corresponding to the IP address whitelist. Set the value to <b>9093/9093</b> .
VpcList	Array		The details of the returned IP address whitelist of the VPC type.
AllowedIpList	List	192.XXX.X.X/XX	The returned IP address whitelist.
PortRange	String	9092/9092	The port number range corresponding to the IP address whitelist. Set the value to <b>9092/9092</b> .
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
RequestId	String	A421CCD7-5BC5-4B32-8DD8-64668A8FCB56	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=GetAllowedIpList
&InstanceId=alikafka_post-cn-mp91inkw****
&RegionId=cn-hangzhou
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<Message>operation success. </Message>
<RequestId>A421CCD7-5BC5-4B32-8DD8-64668A8FCB56</RequestId>
<Success>>true</Success>
<Code>200</Code>
<AllowedList>
  <DeployType>4</DeployType>
  <InternetList>
    <PortRange>9093/9093</PortRange>
    <AllowedIpList>0.0.0.0/0</AllowedIpList>
  </InternetList>
  <VpcList>
    <PortRange>9092/9092</PortRange>
    <AllowedIpList>192.XXX.X.X/XX</AllowedIpList>
  </VpcList>
</AllowedList>
```

#### JSON format

```
{
  "Message": "operation success.",
  "RequestId": "A421CCD7-5BC5-4B32-8DD8-64668A8FCB56",
  "Success": true,
  "Code": 200,
  "AllowedList": {
    "DeployType": 4,
    "InternetList": [
      {
        "PortRange": "9093/9093",
        "AllowedIpList": [
          "0.0.0.0/0"
        ]
      }
    ],
    "VpcList": [
      {
        "PortRange": "9092/9092",
        "AllowedIpList": [
          "192.XXX.X.X/XX"
        ]
      }
    ]
  }
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 10.8. UpdateAllowedIp

You can call this operation to update an IP address whitelist.

## Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateAllowedIp	The operation that you want to perform. Set the value to UpdateAllowedIp.
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance whose IP address whitelist you want to update
UpdateType	String	Yes	add	The type of the update. Valid value: <ul style="list-style-type: none"> <li><b>add</b>: Add an IP address.</li> <li><b>delete</b>: Delete an IP address.</li> </ul>
PortRange	String	Yes	9092/9092	The port number range corresponding to the IP address whitelist. Valid value: <ul style="list-style-type: none"> <li><b>9092/9092</b>: port number range of the Virtual Private Cloud (VPC) type</li> <li><b>9093/9093</b>: port number range of the Internet type</li> </ul> <b>Note:</b> This parameter must correspond to AllowedListType.
AllowedListType	String	Yes	vpc	The type of the whitelist. Valid value: <ul style="list-style-type: none"> <li><b>vpc</b>: IP address whitelist of the VPC type</li> <li><b>internet</b>: IP address whitelist of the Internet type</li> </ul>
AllowedListIp	String	Yes	0.0.0.0/0	The IP address list, which can be a CIDR block, for example, 192.168.0.100 or 192.168.0.0/16. <b>Note:</b> <ul style="list-style-type: none"> <li>When the value of the UpdateType parameter is add, you can enter multiple IP addresses and separate them with commas (,).</li> <li>When the value of the UpdateType parameter is delete, you can enter only one IP address.</li> <li>Use caution when you delete IP addresses.</li> </ul>
InstanceId	String	Yes	alikafka_pre-cn-0pp1cng20***	The ID of the Message Queue for Apache Kafka instance whose IP address whitelist you want to update.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
RequestId	String	17D425C2-4EA3-4AB8-928D-E10511ECF23B	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=UpdateAllowedIp
&RegionId=cn-hangzhou
&UpdateType=add
&PortRange=9092/9092
&AllowedListType=vpc
&AllowedListIp=0.0.0.0/0
&InstanceId=alikafka_pre-cn-0pp1cng20***
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<Message>operation success</Message>
<RequestId>17D425C2-4EA3-4AB8-928D-E10511ECF23B</RequestId>
<Success>>true</Success>
<Code>200</Code>
```

#### JSON format

```
{
  "Message": "operation success",
  "RequestId": "17D425C2-4EA3-4AB8-928D-E10511ECF23B",
  "Success": true,
  "Code": 200
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).



# 11.Topic

## 11.1. CreateTopic

You can call this operation to create a topic.

Note the following when you call this operation to create a topic:

- Each user can send a maximum of one query per second (QPS).
- The maximum number of topics that can be created in each Message Queue for Apache Kafka instance depends on the version of the Message Queue for Apache Kafka instance you purchased.

### Debugging

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateTopic	The operation that you want to perform. Set the value to <b>CreateTopic</b> .
Instanceld	String	Yes	alikafka_pre-cn-mp919o4v****	The ID of the Message Queue for Apache Kafka instance where you want to create a topic.
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where you want to create a topic.
Remark	String	Yes	alikafka_topic_test	The name of the topic. The value of this parameter must meet the following requirements: <ul style="list-style-type: none"> <li>• The value can only contain letters, digits, hyphens (-), and underscores (_).</li> <li>• The value must be 3 to 64 characters in length.</li> </ul>

Parameter	Type	Required	Example	Description
Topic	String	Yes	alikafka_topic_test	<p>The name of the topic. The value of this parameter must meet the following requirements:</p> <ul style="list-style-type: none"> <li>The name can only contain letters, digits, hyphens (-), and underscores (_).</li> <li>The name must be 3 to 64 characters in length, and will be automatically truncated if it contains more characters.</li> <li>The name cannot be modified after being created.</li> </ul>
PartitionNum	String	No	12	<p>The number of partitions in the topic. Valid values:</p> <ul style="list-style-type: none"> <li>1 to 48</li> <li>We recommend that you set the number of partitions to a multiple of 6 to reduce the risk of data skew. Note: For special requirements, submit a ticket.</li> </ul>

### Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success	The returned message.
RequestId	String	9C0F207C-77A6-43E5-991C-9D98510A****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

### Examples

#### Sample requests

```

http(s)://[Endpoint]/? Action=CreateTopic
&InstanceId=alikafka_pre-cn-mp919o4v****
&RegionId=cn-hangzhou
&Remark=alikafka_topic_test
&Topic=alikafka_topic_test
&<Common request parameters>
    
```

## Sample success responses

## XML format

```
<CreateTopicResponse>
  <Message>operation success</Message>
  <RequestId>9C0F207C-77A6-43E5-991C-9D98510A****</RequestId>
  <Success>>true</Success>
  <Code>200</Code>
</CreateTopicResponse>
```

## JSON format

```
{
  "CreateTopicResponse": {
    "Message": "operation success",
    "RequestId": "9C0F207C-77A6-43E5-991C-9D98510A****",
    "Success": true,
    "Code": "200"
  }
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

## 11.2. DeleteTopic

You can call this operation to delete a topic.

### Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteTopic	The operation that you want to perform. Set the value to DeleteTopic.
InstanceId	String	Yes	alikafka_post-cn-v0h1fgs2****	The ID of the Message Queue for Apache Kafka instance where you want to delete a topic.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where you want to delete a topic.
Topic	String	Yes	test	The name of the topic.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
RequestId	String	06084011-E093-46F3-A51F-4B19A8AD****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=DeleteTopic
&InstanceId=alikafka_post-cn-v0h1fgs2****
&RegionId=cn-hangzhou
&Topic=test
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<Message>operation success. </Message>
<RequestId>06084011-E093-46F3-A51F-4B19A8AD7A94</RequestId>
<Success>true</Success>
<Code>200</Code>
```

#### JSON format

```
{
  "Message": "operation success.",
  "RequestId": "06084011-E093-46F3-A51F-4B19A8AD7A94",
  "Success": true,
  "Code": 200
}
```

## Error codes

HTTP status code	Error code	Error message	Description
500	InternalServerError	An internal error occurred; please try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the [API Error Center](#).

## 11.3. GetTopicList

You can call this operation to query topics.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetTopicList	The operation that you want to perform. Set the value to GetTopicList.
CurrentPage	String	Yes	1	The number of the page to return.
InstanceId	String	Yes	alikafka_pre-cn-0pp1954n****	The ID of the Message Queue for Apache Kafka instance whose topics you want to query.
PageSize	String	Yes	10	The number of entries to return on each page.
RegionId	String	No	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance whose topics you want to query.

### Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
CurrentPage	Integer	1	The page number of the returned page.
Message	String	operation success.	The returned message.
PageSize	Integer	10000	The number of entries returned per page.
RequestId	String	82BD585C-17A1-486E-B3E8-AABCE8EE****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
TopicList	Array		The returned list of topics.
TopicVO			
CreateTime	Long	1576563109000	The time when the topic was created.
Instanceld	String	alikafka_pre-cn-0pp1ftnx****	The ID of the Message Queue for Apache Kafka instance where the topic is located.
RegionId	String	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where the topic is located.
Remark	String	test2	The description of the topic. The value of this parameter must meet the following requirements: <ul style="list-style-type: none"> <li>• The value can only contain letters, digits, hyphens (-), and underscores (_).</li> <li>• The value must be 3 to 64 characters in length.</li> </ul>
Status	Integer	0	The service status of the topic. Valid value: <b>0</b> : The topic is running. <b>Note:</b> If the topic has been deleted, this parameter is not returned.
StatusName	String	Running	The name of the service status of the topic. Valid value: <b>Running</b> <b>Note:</b> If the topic has been deleted, this parameter is not returned.
Tags	Array		The tags bound to the topic.
TagVO			
Key	String	Test	The key of the tag bound to the topic.

Parameter	Type	Example	Description
Value	String	Test	The value of the tag bound to the topic.
Topic	String	test2	The name of the topic. The value of this parameter must meet the following requirements: <ul style="list-style-type: none"><li>• The name can only contain letters, digits, hyphens (-), and underscores (_).</li><li>• The name must be 3 to 64 characters in length, and will be automatically truncated if it contains more characters.</li><li>• The name cannot be modified after being created.</li></ul>
Total	Integer	2	The total number of returned topics.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=GetTopicList
&CurrentPage=1
&Instanceld=alikafka_pre-cn-0pp1954n2003
&PageSize=10
&<Common request parameters>
```

### Sample success responses

XML format

```

<TopicList>
  <TopicVO>
    <PartitionNum>12</PartitionNum>
    <Tags>
    </Tags>
    <Status>0</Status>
    <CompactTopic>>false</CompactTopic>
    <RegionId>cn-hangzhou</RegionId>
    <InstanceId>alikafka_pre-cn-0pp1ftnxu00y</InstanceId>
    <CreateTime>1576563109000</CreateTime>
    <Topic>test2</Topic>
    <StatusName>Running</StatusName>
    <LocalTopic>>false</LocalTopic>
    <Remark>test</Remark>
  </TopicVO>
  <TopicVO>
    <PartitionNum>12</PartitionNum>
    <Tags>
    </Tags>
    <Status>0</Status>
    <CompactTopic>>false</CompactTopic>
    <RegionId>cn-hangzhou</RegionId>
    <InstanceId>alikafka_pre-cn-0pp1ftnxu00y</InstanceId>
    <CreateTime>1576563103000</CreateTime>
    <Topic>test1</Topic>
    <StatusName>Running</StatusName>
    <LocalTopic>>false</LocalTopic>
    <Remark>test</Remark>
  </TopicVO>
</TopicList>
<Message>operation success. </Message>
<PageSize>10000</PageSize>
<RequestId>ABBF8EF6-3598-43E4-91D6-2FD211A90075</RequestId>
<CurrentPage>1</CurrentPage>
<Success>>true</Success>
<Code>200</Code>
<Total>2</Total>

```

JSON format

```

{

```



```
1
"TopicList": {
  "TopicVO": [
    {
      "PartitionNum": 12,
      "Tags": {
        "TagVO": []
      },
      "Status": 0,
      "CompactTopic": false,
      "RegionId": "cn-hangzhou",
      "InstanceId": "alikafka_pre-cn-0pp1ftnxu00y",
      "CreateTime": 1576563109000,
      "Topic": "test2",
      "StatusName": "Running",
      "LocalTopic": false,
      "Remark": "test"
    },
    {
      "PartitionNum": 12,
      "Tags": {
        "TagVO": []
      },
      "Status": 0,
      "CompactTopic": false,
      "RegionId": "cn-hangzhou",
      "InstanceId": "alikafka_pre-cn-0pp1ftnxu00y",
      "CreateTime": 1576563103000,
      "Topic": "test1",
      "StatusName": "Running",
      "LocalTopic": false,
      "Remark": "test"
    }
  ]
},
"Message": "operation success.",
"PageSize": 10000,
"RequestId": "ABBf8EF6-3598-43E4-91D6-2FD211A90075",
"CurrentPage": 1,
"Success": true,
"Code": 200,
```

```
"Total": 2
}
```

### Error codes

For a list of error codes, visit the [API Error Center](#).

## 11.4. GetTopicStatus

You can call this operation to query the message sending and receiving status of a topic.

### Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetTopicStatus	The operation that you want to perform. Set the value to GetTopicStatus.
InstanceId	String	Yes	alikafka_pre-cn-v0h15tjmo003	The ID of the Message Queue for Apache Kafka instance where the topic is located.
Topic	String	Yes	normal_topic_9d034262835916103455551be06cc2dc_6	The name of the topic.
RegionId	String	No	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where the topic is located.

### Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.
RequestId	String	E475C7E2-8C35-46EF-BE7D-5D2A9F5D****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Parameter	Type	Example	Description
TopicStatus	Struct		The message sending and receiving status of the topic.
LastTimeStamp	Long	1566470063575	The time when the last consumed message was generated.
OffsetTable	Array		The returned list of consumer offsets in the topic.
OffsetTable			
LastUpdateTimestamp	Long	1566470063547	The last time when the consumer offset in the topic was updated.
MaxOffset	Long	76	The maximum consumer offset in the current partition of the topic.
MinOffset	Long	0	The minimum consumer offset in the current partition of the topic.
Partition	Integer	0	The ID of the partition in the topic.
Topic	String	testkafka	The name of the topic.
TotalCount	Long	423	The total number of messages in the topic.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=GetTopicStatus
&InstanceId=alikafka_pre-cn-v0h15tjmo003
&Topic=normal_topic_9d034262835916103455551be06cc2dc_6
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<Message>operation success. </Message>
<RequestId>D2FF4C1A-2A4A-4C24-BFCD-A2FF2DC1AAFE</RequestId>
<TopicStatus>
  <TotalCount>0</TotalCount>
  <LastTimeStamp>0</LastTimeStamp>
  <OffsetTable>
    <OffsetTable>
      <Partition>0</Partition>
      <LastUpdateTimestamp>0</LastUpdateTimestamp>
```

```
<Topic>demo</Topic>
<MaxOffset>0</MaxOffset>
<MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>1</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>2</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>3</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>4</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>5</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>6</Partition>
```

```
<LastUpdateTimestamp>0</LastUpdateTimestamp>
<Topic>demo</Topic>
<MaxOffset>0</MaxOffset>
<MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>7</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>8</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>9</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>10</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
<OffsetTable>
  <Partition>11</Partition>
  <LastUpdateTimestamp>0</LastUpdateTimestamp>
  <Topic>demo</Topic>
  <MaxOffset>0</MaxOffset>
  <MinOffset>0</MinOffset>
</OffsetTable>
</OffsetTable>
```

```
</OffsetTable>
</TopicStatus>
<Success>true</Success>
<Code>200</Code>
```

#### JSON format

```
{
  "Message": "operation success.",
  "RequestId": "D2FF4C1A-2A4A-4C24-BFCD-A2FF2DC1AAFE",
  "TopicStatus": {
    "TotalCount": 0,
    "LastTimeStamp": 0,
    "OffsetTable": {
      "OffsetTable": [
        {
          "Partition": 0,
          "LastUpdateTimestamp": 0,
          "Topic": "demo",
          "MaxOffset": 0,
          "MinOffset": 0
        },
        {
          "Partition": 1,
          "LastUpdateTimestamp": 0,
          "Topic": "demo",
          "MaxOffset": 0,
          "MinOffset": 0
        },
        {
          "Partition": 2,
          "LastUpdateTimestamp": 0,
          "Topic": "demo",
          "MaxOffset": 0,
          "MinOffset": 0
        },
        {
          "Partition": 3,
          "LastUpdateTimestamp": 0,
          "Topic": "demo",
          "MaxOffset": 0,
```

```
"MinOffset": 0
},
{
  "Partition": 4,
  "LastUpdateTimestamp": 0,
  "Topic": "demo",
  "MaxOffset": 0,
  "MinOffset": 0
},
{
  "Partition": 5,
  "LastUpdateTimestamp": 0,
  "Topic": "demo",
  "MaxOffset": 0,
  "MinOffset": 0
},
{
  "Partition": 6,
  "LastUpdateTimestamp": 0,
  "Topic": "demo",
  "MaxOffset": 0,
  "MinOffset": 0
},
{
  "Partition": 7,
  "LastUpdateTimestamp": 0,
  "Topic": "demo",
  "MaxOffset": 0,
  "MinOffset": 0
},
{
  "Partition": 8,
  "LastUpdateTimestamp": 0,
  "Topic": "demo",
  "MaxOffset": 0,
  "MinOffset": 0
},
{
  "Partition": 9,
  "LastUpdateTimestamp": 0,
  "Topic": "demo",
```

```

    "MaxOffset": 0,
    "MinOffset": 0
  },
  {
    "Partition": 10,
    "LastUpdateTimestamp": 0,
    "Topic": "demo",
    "MaxOffset": 0,
    "MinOffset": 0
  },
  {
    "Partition": 11,
    "LastUpdateTimestamp": 0,
    "Topic": "demo",
    "MaxOffset": 0,
    "MinOffset": 0
  }
]
}
},
"Success": true,
"Code": 200
}

```

### Error codes

For a list of error codes, visit the [API Error Center](#).

## 11.5. ModifyPartitionNum

Modifies the number of partitions for a topic.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyPartitionNum	The operation that you want to perform. Set the value to <b>ModifyPartitionNum</b> .



Parameter	Type	Required	Example	Description
InstanceId	String	Yes	alikafka_post-cn-0pp1l9z8***	The ID of the Message Queue for Apache Kafka instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.
Topic	String	Yes	TopicPartitionNum	The name of the topic for which you want to add partitions.
AddPartitionNum	Integer	Yes	6	The number of partitions you want to add for the topic. <ul style="list-style-type: none"> <li>We recommend that you set the number of partitions to a multiple of 6 to reduce the risk of data skew.</li> <li>A maximum of 48 partitions are allowed for a topic.</li> <li>If you need to increase the quota, submit a ticket.</li> </ul>

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
Message	String	200	The returned message.
RequestId	String	B7A39AE5-0B36-4442-A304-E0885265***	The ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

### Sample request

```
http(s)://[Endpoint]/? Action=ModifyPartitionNum
&<Common request parameters>
```

### Sample success responses

XML format

```
<ModifyPartitionNumResponse>
  <RequestId>B7A39AE5-0B36-4442-A304-E0885265***</RequestId>
  <Message>operation success</Message>
  <Code>200</Code>
  <Success>>true</Success>
</ModifyPartitionNumResponse>
```

JSON format

```
{
  "ModifyPartitionNumResponse": {
    "RequestId": "B7A39AE5-0B36-4442-A304-E0885265***",
    "Message": "operation success",
    "Code": 200,
    "Success": true
  }
}
```

### Error codes

HttpCode	Error code	Error message	Description
500	InternalServerError	An internal error occurred; please try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the [API Error Center](#).

## 11.6. ModifyTopicRemark

Modifies the remarks of a topic.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyTopicRemark	The operation that you want to perform. Set the value to <b>ModifyTopicRemark</b> .

Parameter	Type	Required	Example	Description
InstanceId	String	Yes	alikaafka_post-cn-0pp1l9z8***	The ID of the Message Queue for Apache Kafka instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.
Topic	String	Yes	alikaafka_post-cn-0pp1l9z8z***	The name of the topic.
Remark	String	No	testremark	The remarks of the topic.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
Message	String	operation success	The returned message.
RequestId	String	DB6F1BEA-903B-4FD8-8809-46E7E9CE***	The ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

### Sample request

```
http(s)://[Endpoint]/? Action=ModifyTopicRemark
&InstanceId=alikaafka_post-cn-0pp1l9z8***
&RegionId=cn-hangzhou
&Topic=alikaafka_post-cn-0pp1l9z8z***
&<Common request parameters>
```

### Sample success responses

XML format

```
<ModifyTopicRemarkResponse>
  <RequestId>DB6F1BEA-903B-4FD8-8809-46E7E9CE***</RequestId>
  <Message>operation success</Message>
  <Code>200</Code>
  <Success>>true</Success>
</ModifyTopicRemarkResponse>
```

#### JSON format

```
{
  "ModifyTopicRemarkResponse": {
    "RequestId": "DB6F1BEA-903B-4FD8-8809-46E7E9CE***",
    "Message": "operation success",
    "Code": 200,
    "Success": true
  }
}
```

## Error codes

HttpCode	Error code	Error message	Description
500	InternalServerError	An internal error occurred; please try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the [API Error Center](#).

# 12.Consumer groups

## 12.1. DeleteConsumerGroup

You can call this operation to delete a consumer group.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteConsumerGroup	The operation that you want to perform. Set the value to DeleteConsumerGroup.
ConsumerId	String	Yes	CID-test	The name of the consumer group. The value of this parameter must meet the following requirements: <ul style="list-style-type: none"> <li>The name can only contain letters, digits, hyphens (-), and underscores (_).</li> <li>The name must be 3 to 64 characters in length, and will be automatically truncated if it contains more characters.</li> <li>The name cannot be modified after being created.</li> </ul>
InstanceId	String	Yes	alikafka_post-cn-v0h1fgs2****	The ID of the Message Queue for Apache Kafka instance where the consumer group is located.
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where the consumer group is located.

### Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success.	The returned message.

Parameter	Type	Example	Description
RequestId	String	06084011-E093-46F3-A51F-4B19A8AD****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=DeleteConsumerGroup
&ConsumerId=CID-test
&Instanceld=alikafka_post-cn-v0h1fgs2****
&RegionId=cn-hangzhou
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<Message>operation success. </Message>
<RequestId>06084011-E093-46F3-A51F-4B19A8AD7A94</RequestId>
<Success>>true</Success>
<Code>200</Code>
```

#### JSON format

```
{
  "Message": "operation success.",
  "RequestId": "06084011-E093-46F3-A51F-4B19A8AD7A94",
  "Success": true,
  "Code": 200
}
```

## Error codes

HTTP status code	Error code	Error message	Description
500	InternalServerError	An internal error occurred; please try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the [API Error Center](#).

## 12.2. GetConsumerList

You can call this operation to query the consumer groups created on a Message Queue for Apache Kafka instance.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetConsumerList	The operation that you want to perform. Set the value to GetConsumerList.
InstanceId	String	Yes	alikafka_post-cn-v0h18sav****	The ID of the Message Queue for Apache Kafka instance whose consumer groups you want to query.
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance whose consumer groups you want to query.

### Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
ConsumerList	Array		The returned list of consumer groups.
ConsumerVO			
ConsumerId	String	CID_c34a6f44915f80d70cb42c4b14ee40c3_4	The name of the consumer group.
InstanceId	String	alikafka_post-cn-v0h18sav****	The ID of the Message Queue for Apache Kafka instance where the consumer group is located.
RegionId	String	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where the consumer group is located.
Tags	Array		The tags bound to the consumer group.
TagVO			

Parameter	Type	Example	Description
Key	String	test	The key of the tag bound to the consumer group.
Value	String	test	The value of the tag bound to the consumer group.
Message	String	operation success.	The returned message.
RequestId	String	808F042B-CB9A-4FBC-9009-00E7DDB6****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=GetConsumerList
&InstanceId=alikafka_post-cn-v0h18sav****
&RegionId=cn-hangzhou
&<Common request parameters>
```

### Sample success responses

XML format



```
<GetConsumerListResponse>
  <ConsumerList>
    <ConsumerVO>
      <ConsumerId>CID_c34a6f44915f80d70cb42c4b14ee40c3_4</ConsumerId>
      <InstanceId>alikafka_post-cn-v0h18sav****</InstanceId>
      <RegionId>cn-hangzhou</RegionId>
    </ConsumerVO>
    <ConsumerVO>
      <ConsumerId>CID_c34a6f44915f80d70cb42c4b14ee40c3_3</ConsumerId>
      <InstanceId>alikafka_post-cn-v0h18sav****</InstanceId>
      <RegionId>cn-hangzhou</RegionId>
    </ConsumerVO>
  </ConsumerList>
  <Message>operation success. </Message>
  <RequestId>808F042B-CB9A-4FBC-9009-00E7DDB6****</RequestId>
  <Success>true</Success>
  <Code>200</Code>
</GetConsumerListResponse>
```

JSON format

```
{
  "GetConsumerListResponse": {
    "ConsumerList": {
      "ConsumerVO": [
        {
          "ConsumerId": "CID_c34a6f44915f80d70cb42c4b14ee40c3_4",
          "InstanceId": "alikafka_post-cn-v0h18sav****",
          "RegionId": "cn-hangzhou"
        },
        {
          "ConsumerId": "CID_c34a6f44915f80d70cb42c4b14ee40c3_3",
          "InstanceId": "alikafka_post-cn-v0h18sav****",
          "RegionId": "cn-hangzhou"
        }
      ]
    },
    "Message": "operation success.",
    "RequestId": "808F042B-CB9A-4FBC-9009-00E7DDB6****",
    "Success": true,
    "Code": 200
  }
}
```

### Error codes

For a list of error codes, visit the [API Error Center](#).

## 12.3. GetConsumerProgress

You can call this operation to query the consumption status of a consumer group.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetConsumerProgress	The operation that you want to perform. Set the value to GetConsumerProgress.
ConsumerId	String	Yes	kafka-test	The name of the consumer group.

Parameter	Type	Required	Example	Description
InstanceId	String	Yes	alikafka_pre-cn-mp919o4v****	The ID of the Message Queue for Apache Kafka instance where the consumer group is located.
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where the consumer group is located.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
ConsumerProgress	Struct		The consumption status of the consumer group.
LastTimestamp	Long	1566874931671	The time when the last message consumed by the consumer group was generated.
TopicList	Array		The consumption progress of each topic subscribed by the consumer group.
TopicList			
LastTimestamp	Long	1566874931649	The time when the last consumed message in the topic was generated.
OffsetList	Array		The returned list of consumer offsets in the topic.
OffsetList			
BrokerOffset	Long	9	The maximum consumer offset in the partition of the topic.
ConsumerOffset	Long	9	The consumer offset in the partition of the topic.
LastTimestamp	Long	1566874931649	The time when the last consumed message in the partition of the topic was generated.
Partition	Integer	0	The ID of the partition in the topic.
Topic	String	kafka-test	The name of the topic.
TotalDiff	Long	0	The total number of unconsumed messages, or in other words, accumulated messages, of the topic subscribed by the consumer group.

Parameter	Type	Example	Description
TotalDiff	Long	0	The total number of unconsumed messages, or in other words, accumulated messages, of all topics subscribed by the consumer group.
Message	String	operation success.	The returned message.
RequestId	String	252820E1-A2E6-45F2-B4C9-1056B8CE****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=GetConsumerProgress
&ConsumerId=kafka-test
&InstanceId=alikafka_pre-cn-mp919o4v****
&RegionId=cn-hangzhou
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<GetConsumerProgressResponse>
  <Message>operation success. </Message>
  <RequestId>252820E1-A2E6-45F2-B4C9-1056B8CE****</RequestId>
  <ConsumerProgress>
    <TotalDiff>0</TotalDiff>
    <LastTimestamp>1566874931671</LastTimestamp>
    <TopicList>
      <TopicList>
        <TotalDiff>0</TotalDiff>
        <OffsetList>
          <OffsetList>
            <Partition>0</Partition>
            <LastTimestamp>1566874931649</LastTimestamp>
            <BrokerOffset>9</BrokerOffset>
            <ConsumerOffset>9</ConsumerOffset>
          </OffsetList>
          <OffsetList>
            <Partition>1</Partition>
```

```
<LastTimestamp>1566874931605</LastTimestamp>
  <BrokerOffset>9</BrokerOffset>
  <ConsumerOffset>9</ConsumerOffset>
</OffsetList>
<OffsetList>
  <Partition>2</Partition>
  <LastTimestamp>1566874931561</LastTimestamp>
  <BrokerOffset>10</BrokerOffset>
  <ConsumerOffset>10</ConsumerOffset>
</OffsetList>
<OffsetList>
  <Partition>3</Partition>
  <LastTimestamp>1566874931628</LastTimestamp>
  <BrokerOffset>8</BrokerOffset>
  <ConsumerOffset>8</ConsumerOffset>
</OffsetList>
<OffsetList>
  <Partition>4</Partition>
  <LastTimestamp>1566874931579</LastTimestamp>
  <BrokerOffset>8</BrokerOffset>
  <ConsumerOffset>8</ConsumerOffset>
</OffsetList>
<OffsetList>
  <Partition>5</Partition>
  <LastTimestamp>1566874931570</LastTimestamp>
  <BrokerOffset>10</BrokerOffset>
  <ConsumerOffset>10</ConsumerOffset>
</OffsetList>
<OffsetList>
  <Partition>6</Partition>
  <LastTimestamp>1566874931639</LastTimestamp>
  <BrokerOffset>9</BrokerOffset>
  <ConsumerOffset>9</ConsumerOffset>
</OffsetList>
<OffsetList>
  <Partition>7</Partition>
  <LastTimestamp>1566874931586</LastTimestamp>
  <BrokerOffset>8</BrokerOffset>
  <ConsumerOffset>8</ConsumerOffset>
</OffsetList>
```

```

    <OffsetList>
      <Partition>8</Partition>
      <LastTimestamp>1566874931661</LastTimestamp>
      <BrokerOffset>9</BrokerOffset>
      <ConsumerOffset>9</ConsumerOffset>
    </OffsetList>
    <OffsetList>
      <Partition>9</Partition>
      <LastTimestamp>1566874931616</LastTimestamp>
      <BrokerOffset>8</BrokerOffset>
      <ConsumerOffset>8</ConsumerOffset>
    </OffsetList>
    <OffsetList>
      <Partition>10</Partition>
      <LastTimestamp>1566874931596</LastTimestamp>
      <BrokerOffset>8</BrokerOffset>
      <ConsumerOffset>8</ConsumerOffset>
    </OffsetList>
    <OffsetList>
      <Partition>11</Partition>
      <LastTimestamp>1566874931671</LastTimestamp>
      <BrokerOffset>9</BrokerOffset>
      <ConsumerOffset>9</ConsumerOffset>
    </OffsetList>
  </OffsetList>
  <LastTimestamp>1566874931671</LastTimestamp>
  <Topic>kafka-test</Topic>
</TopicList>
</TopicList>
</ConsumerProgress>
<Success>>true</Success>
<Code>200</Code>
</GetConsumerProgressResponse>

```

#### JSON format

```

{
  "GetConsumerProgressResponse": {
    "Message": "operation success.",
    "RequestId": "252820E1-A2E6-45F2-B4C9-1056B8CE****",
    "ConsumerProgress": {

```

```
"TotalDiff": 0,
"LastTimestamp": 1566874931671,
"TopicList": {
  "TopicList": {
    "TotalDiff": 0,
    "OffsetList": {
      "OffsetList": [
        {
          "Partition": 0,
          "LastTimestamp": 1566874931649,
          "BrokerOffset": 9,
          "ConsumerOffset": 9
        },
        {
          "Partition": 1,
          "LastTimestamp": 1566874931605,
          "BrokerOffset": 9,
          "ConsumerOffset": 9
        },
        {
          "Partition": 2,
          "LastTimestamp": 1566874931561,
          "BrokerOffset": 10,
          "ConsumerOffset": 10
        },
        {
          "Partition": 3,
          "LastTimestamp": 1566874931628,
          "BrokerOffset": 8,
          "ConsumerOffset": 8
        },
        {
          "Partition": 4,
          "LastTimestamp": 1566874931579,
          "BrokerOffset": 8,
          "ConsumerOffset": 8
        },
        {
          "Partition": 5,
          "LastTimestamp": 1566874931570,
          "BrokerOffset": 10,
```

```
    "ConsumerOffset": 10
  },
  {
    "Partition": 6,
    "LastTimestamp": 1566874931639,
    "BrokerOffset": 9,
    "ConsumerOffset": 9
  },
  {
    "Partition": 7,
    "LastTimestamp": 1566874931586,
    "BrokerOffset": 8,
    "ConsumerOffset": 8
  },
  {
    "Partition": 8,
    "LastTimestamp": 1566874931661,
    "BrokerOffset": 9,
    "ConsumerOffset": 9
  },
  {
    "Partition": 9,
    "LastTimestamp": 1566874931616,
    "BrokerOffset": 8,
    "ConsumerOffset": 8
  },
  {
    "Partition": 10,
    "LastTimestamp": 1566874931596,
    "BrokerOffset": 8,
    "ConsumerOffset": 8
  },
  {
    "Partition": 11,
    "LastTimestamp": 1566874931671,
    "BrokerOffset": 9,
    "ConsumerOffset": 9
  }
]
},
"LastTimestamp": 1566874931671
```



```

    "LastTimestamp": 1566874931671,
    "Topic": "kafka-test"
  }
},
"Success": true,
"Code": 200
}
}

```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 12.4. CreateConsumerGroup

You can call this operation to create a consumer group.

## Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateConsumerGroup	The operation that you want to perform. Set the value to CreateConsumerGroup.
ConsumerId	String	Yes	consumer_group_test	The name of the consumer group. The value of this parameter must meet the following requirements: <ul style="list-style-type: none"> <li>The name can only contain letters, digits, hyphens (-), and underscores (_).</li> <li>The name must be 3 to 64 characters in length, and will be automatically truncated if it contains more characters.</li> <li>The name cannot be modified after being created.</li> </ul>
InstanceId	String	Yes	alikafka_pre-cn-0pp1954n****	The ID of the Message Queue for Apache Kafka instance where the consumer group is located.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the Message Queue for Apache Kafka instance where the consumer group is located.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned status code. If "200" is returned, the request is successful.
Message	String	operation success	The returned message.
RequestId	String	B191CC4D-B067-4508-987A-ACDA8D89****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=CreateConsumerGroup
&ConsumerId=consumer_group_test
&InstanceId=alikafka_pre-cn-0pp1954n****
&RegionId=cn-hangzhou
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<Message>operation success</Message>
<RequestId>B191CC4D-B067-4508-987A-ACDA8D89****</RequestId>
<Success>true</Success>
<Code>200</Code>
```

#### JSON format

```
{
  "Message": "operation success",
  "RequestId": "B191CC4D-B067-4508-987A-ACDA8D89****",
  "Success": true,
  "Code": 200
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 13.Tags

## 13.1. UntagResources

You can call this operation to unbind and delete a tag from a resource.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UntagResources	The operation that you want to perform. Set the value to UntagResources.
RegionId	String	Yes	cn-hangzhou	The region ID of the resource.
ResourceId.N	RepeatList	Yes	alikafka_post-cn-v0h1fgs2****	<p>The ID of resource N from which the tag will be unbound. The resource ID follows these rules:</p> <ul style="list-style-type: none"> <li>If the resource is an instance, the resource ID uses the same syntax as the value of the instancelid parameter.</li> <li>If the resource is a topic, the resource ID uses the same syntax as the value of the Kafka_instancelid_topic parameter.</li> <li>If the resource is a consumer group, the resource ID uses the same syntax as the value of the Kafka_instancelid_consumerGroup parameter.</li> </ul> <p>For example, the resources from which the tag will be unbound include the alikafka_post-cn-v0h1fgs2xxxx instance, the test-topic topic, and the test-consumer-group consumer group. In this case, their resource IDs are alikafka_post-cn-v0h1fgs2xxxx, Kafka_alikafka_post-cn-v0h1fgs2xxxx_test-topic, and Kafka_alikafka_post-cn-v0h1fgs2xxxx_test-consumer-group respectively.</p>

Parameter	Type	Required	Example	Description
ResourceType	String	Yes	instance	The type of the resource. The value is an enumerated value. Valid values: <ul style="list-style-type: none"> <li>• <b>Instance</b></li> <li>• <b>Topic</b></li> <li>• <b>Consumer Group</b></li> </ul>
TagKey.N	RepeatList	No	FinanceDept	The key of tag N to be unbound from the resource. Valid values of N: <ul style="list-style-type: none"> <li>• 1 to 20</li> <li>• This parameter cannot be an empty string.</li> <li>• It can be up to 128 characters in length. It cannot start with aliyun or acs: and cannot contain http:// or https://.</li> </ul>
All	Boolean	No	false	Specifies whether to delete all the tags bound to the resource. This parameter takes effect only when the TagKey.N parameter is not specified in the request. Default value: <b>false</b>

## Response parameters

Parameter	Type	Example	Description
RequestId	String	C46FF5A8-C5F0-4024-8262-B16B639225A0	The ID of the request.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=UntagResources
&RegionId=cn-hangzhou
&ResourceId.1=alibabacloud-post-cn-v0h1fgs2****
&ResourceType=instance
&<Common request parameters>
```

### Sample success responses

XML format

```
<RequestId>C46FF5A8-C5F0-4024-8262-B16B639225A0</RequestId>
```

JSON format

```
{
  "RequestId":"C46FF5A8-C5F0-4024-8262-B16B639225A0"
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 13.2. TagResources

You can call this operation to bind a tag to a resource.

## Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TagResources	The operation that you want to perform. Set the value to TagResources.
RegionId	String	Yes	cn-hangzhou	The region ID of the resource.

Parameter	Type	Required	Example	Description
ResourceId.N	RepeatList	Yes	alikafka_post-cn-v0h1fgs2****	<p>The ID of resource N to which the tag will be bound. The resource ID follows these rules:</p> <ul style="list-style-type: none"> <li>• If the resource is an instance, the resource ID uses the same syntax as the value of the <code>instanceld</code> parameter.</li> <li>• If the resource is a topic, the resource ID uses the same syntax as the value of the <code>Kafka_instanceld_topic</code> parameter.</li> <li>• If the resource is a consumer group, the resource ID uses the same syntax as the value of the <code>Kafka_instanceld_consumerGroup</code> parameter.</li> </ul> <p>For example, the resources to which the tag will be bound include the <code>alikafka_post-cn-v0h1fgs2xxxx</code> instance, the <code>test-topic</code> topic, and the <code>test-consumer-group</code> consumer group. In this case, their resource IDs are <code>alikafka_post-cn-v0h1fgs2xxxx</code>, <code>Kafka_alikafka_post-cn-v0h1fgs2xxxx_test-topic</code>, and <code>Kafka_alikafka_post-cn-v0h1fgs2xxxx_test-consumer-group</code> respectively.</p>
ResourceType	String	Yes	instance	<p>The type of the resource. The value is an enumerated value. Valid values:</p> <ul style="list-style-type: none"> <li>• <b>Instance</b></li> <li>• <b>Topic</b></li> <li>• <b>Consumer Group</b></li> </ul>
Tag.N.Key	String	Yes	FinanceDept	<p>The key of tag N to be bound to the resource. Valid values of N:</p> <ul style="list-style-type: none"> <li>• 1 to 20</li> <li>• This parameter cannot be an empty string.</li> <li>• It can be up to 128 characters in length. It cannot start with <code>aliyun</code> or <code>acs:</code> and cannot contain <code>http://</code> or <code>https://</code>.</li> </ul>

Parameter	Type	Required	Example	Description
Tag.N.Value	String	No	FinanceJoshua	<p>The value of tag N to be bound to the resource.</p> <ul style="list-style-type: none"> <li>Valid values of N: 1 to 20</li> <li>This parameter can be an empty string.</li> <li>It can be up to 128 characters in length. It cannot start with aliyun or acs: and cannot contain http:// or https://.</li> </ul>

## Response parameters

Parameter	Type	Example	Description
RequestId	String	C46FF5A8-C5F0-4024-8262-B16B639225A0	The ID of the request.

## Examples

### Sample requests

```

http(s)://[Endpoint]/? Action=TagResources
&RegionId=cn-hangzhou
&ResourceId.1=alikafka_post-cn-v0h1fgs2****
&ResourceType=instance
&Tag.1.Key=FinanceDept
&<Common request parameters>

```

### Sample success responses

XML format

```
<RequestId>C46FF5A8-C5F0-4024-8262-B16B639225A0</RequestId>
```

JSON format

```

{
  "RequestId": "C46FF5A8-C5F0-4024-8262-B16B639225A0"
}

```

## Error codes

For a list of error codes, visit the [API Error Center](#).



## 13.3. ListTagResources

You can call this operation to query the tags bound to a resource.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListTagResources	The operation that you want to perform. Set the value to ListTagResources.
RegionId	String	Yes	cn-hangzhou	The region ID of the resource.
ResourceType	String	Yes	instance	The type of the resource. The value is an enumerated value. Valid values: <ul style="list-style-type: none"> <li>Instance</li> <li>Topic</li> <li>Consumergroup</li> </ul>
ResourceId.N	RepeatList	No	alibabacloud_post-cn-v0h1f9s2****	The ID of resource N to which the tag will be bound. <b>Note:</b> Resources that can be bound with a tag include instances, topics, and consumer groups.
Tag.N.Key	String	No	FinanceDept	The key of tag N to be bound to the resource. Valid values of N: <ul style="list-style-type: none"> <li>1 to 20</li> <li>This parameter cannot be an empty string.</li> <li>It can be up to 128 characters in length. It cannot start with aliyun or acs: and cannot contain http:// or https://.</li> </ul>
Tag.N.Value	String	No	FinanceJoshua	The value of tag N to be bound to the resource. Valid values of N: <ul style="list-style-type: none"> <li>1 to 20</li> <li>This parameter can be an empty string.</li> <li>It can be up to 128 characters in length. It cannot start with aliyun or acs: and cannot contain http:// or https://.</li> </ul>

Parameter	Type	Required	Example	Description
NextToken	String	No	caeba0bbb2be03f84eb48b699f0a4883	The token for starting the next query.

## Response parameters

Parameter	Type	Example	Description
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token that is returned for the next query.
RequestId	String	DE65F6B7-7566-4802-9007-96F2494AC5XX	The ID of the request.
TagResources	Array		The returned collection of resources and tags, including the information such as the resource ID, resource type, and tag key-value pair.
TagResource			
ResourceId	String	alikafka_post-cn-v0h1fgs2****	The ID of the resource.
ResourceType	String	instance	The type of the resource.
TagKey	String	FinanceDept	The key of the tag bound to the resource.
TagValue	String	FinanceJoshua	The value of the tag bound to the resource.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=ListTagResources
&RegionId=cn-hangzhou
&ResourceType=instance
&ResourceId.1=alikafka_post-cn-v0h1fgs2****
&<Common request parameters>
```

### Sample success responses

XML format

```
<TagResources>
  <TagResource>
    <ResourceType>instance</ResourceType>
    <TagValue>FinanceJoshua</TagValue>
    <ResourceId>alikafka_post-cn-v0h1fgs2****</ResourceId>
    <TagKey>FinanceDept</TagKey>
  </TagResource>
</TagResources>
<RequestId>DE65F6B7-7566-4802-9007-96F2494AC512</RequestId>
```

#### JSON format

```
{
  "TagResources":{
    "TagResource":[
      {
        "ResourceType":"instance",
        "TagValue":"FinanceJoshua",
        "ResourceId":"alikafka_post-cn-v0h1fgs2****",
        "TagKey":"FinanceDept"
      }
    ]
  },
  "RequestId":"DE65F6B7-7566-4802-9007-96F2494AC512"
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 14.SASL users

## 14.1. CreateSaslUser

Creates a Simple Authentication and Security Layer (SASL) user.

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateSaslUser	The operation that you want to perform. Set the value to <b>CreateSaslUser</b> .
InstanceId	String	Yes	alikafka_pre-cn-v0h1cng0****	The ID of the Message Queue for Apache Kafka instance.
Password	String	Yes	12***	The password of the SASL user.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.
Username	String	Yes	test***	The username of the SASL user.
Type	String	No	plain	The type of the authentication mechanism. Valid values: <ul style="list-style-type: none"> <li><b>plain</b></li> <li><b>scram</b></li> </ul> Default value: <b>plain</b> .

### Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
Message	String	operation success.	The error message.
RequestId	String	C5CA600C-7D5A-45B5-B6DB-44FAC2C****	The ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

### Sample request

```
http(s)://[Endpoint]/? Action=CreateSaslUser
&InstanceId=alikafka_pre-cn-v0h1cng0****
&Password=12***
&RegionId=cn-hangzhou
&Username=test***
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<CreateSaslUserResponse>
  <RequestId>C5CA600C-7D5A-45B5-B6DB-44FAC2C****</RequestId>
  <Message>operation success</Message>
  <Code>200</Code>
  <Success>>true</Success>
</CreateSaslUserResponse>
```

#### JSON format

```
{
  "CreateSaslUserResponse": {
    "RequestId": "C5CA600C-7D5A-45B5-B6DB-44FAC2C****",
    "Message": "operation success",
    "Code": 200,
    "Success": true
  }
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

## 14.2. DeleteSaslUser

Deletes a Simple Authentication and Security Layer (SASL) user.

### Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteSaslUser	The operation that you want to perform. Set the value to <b>DeleteSaslUser</b> .
InstanceId	String	Yes	alikafka_pre-cn-v0h1cng0****	The ID of the Message Queue for Apache Kafka instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.
Username	String	Yes	test***	The username of the SASL user.
Type	String	No	scram	The type of the authentication mechanism. Valid values: <ul style="list-style-type: none"> <li>plain</li> <li>scram</li> </ul> Default value: plain.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
Message	String	operation success	The returned message.
RequestId	String	3CB89F5C-CD97-4C1D-BC7C-FEDEC2F4****	The ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

### Sample request

```

http(s)://[Endpoint]/? Action=DeleteSaslUser
&InstanceId=alikafka_pre-cn-v0h1cng0****
&RegionId=cn-hangzhou
&Username=test***
&Type=scram
&<Common request parameters>
    
```

## Sample success responses

## XML format

```
<DeleteSaslUserResponse>
  <RequestId>3CB89F5C-CD97-4C1D-BC7C-FEDEC2F4****</RequestId>
  <Message>operation success</Message>
  <Code>200</Code>
  <Success>>true</Success>
</DeleteSaslUserResponse>
```

## JSON format

```
{
  "DeleteSaslUserResponse": {
    "RequestId": "3CB89F5C-CD97-4C1D-BC7C-FEDEC2F4****",
    "Message": "operation success",
    "Code": 200,
    "Success": true
  }
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

## 14.3. DescribeSaslUsers

Queries Simple Authentication and Security Layer (SASL) users.

### Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeSaslUsers	The operation that you want to perform. Set the value to <b>DescribeSaslUsers</b> .
InstanceId	String	Yes	alikafka_pre-cn-v0h1cng0****	The ID of the Message Queue for Apache Kafka instance.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
Message	String	operation success.	The returned message.
RequestId	String	9E3B3592-5994-4F65-A61E-E62A77A7***	The ID of the request.
SaslUserList	Array		The list of returned SASL users.
SaslUserVO			
Password	String	123***	The password of the SASL user.
Type	String	scram	The type of the authentication mechanism.
Username	String	test12***	The username of the SASL user.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

### Sample request

```
http(s)://[Endpoint]/? Action=DescribeSaslUsers
&InstanceId=alikafka_pre-cn-v0h1cng0****
&RegionId=cn-hangzhou
&<Common request parameters>
```

### Sample success responses

XML format



```
<DescribeSasUsersResponse>
  <SasUserList>
    <SasUserVO>
      <Username>test12***</Username>
      <Password>123***</Password>
    </SasUserVO>
  </SasUserList>
  <RequestId>9E3B3592-5994-4F65-A61E-E62A77A7***</RequestId>
  <Message>operation success.</Message>
  <Code>200</Code>
  <Success>>true</Success>
</DescribeSasUsersResponse>
```

#### JSON format

```
{
  "DescribeSasUsersResponse": {
    "SasUserList": {
      "SasUserVO": {
        "Username": "test12***",
        "Password": "123***"
      }
    },
    "RequestId": "9E3B3592-5994-4F65-A61E-E62A77A7***",
    "Message": "operation success.",
    "Code": 200,
    "Success": true
  }
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 15.SASL ACL

## 15.1. CreateAcl

Creates an access control list (ACL).

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateAcl	The operation that you want to perform. Set the value to <b>CreateAcl</b> .
AclOperationType	String	Yes	Read	The type of operations allowed by the ACL. Valid values: <ul style="list-style-type: none"> <li><b>Write</b></li> <li><b>Read</b></li> </ul>
AclResourceName	String	Yes	X***	The name of the resource. <ul style="list-style-type: none"> <li>The value can be the name of a topic or consumer group.</li> <li>You can use an asterisk (*) to represent the names of all topics or consumer groups.</li> </ul>
AclResourcePatternType	String	Yes	LITERAL	The matching mode. Valid values: <ul style="list-style-type: none"> <li><b>LITERAL</b>: full match</li> <li><b>PREFIXED</b>: prefix match</li> </ul>
AclResourceType	String	Yes	Group	The type of the resource. Valid values: <ul style="list-style-type: none"> <li><b>Topic</b></li> <li><b>Group</b></li> </ul>
InstanceId	String	Yes	alikafka_pre-cn-v0h1cng00***	The ID of the Message Queue for Apache Kafka instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.

Parameter	Type	Required	Example	Description
Username	String	Yes	test***	The username of the Simple Authentication and Security Layer (SASL) user. You can use an asterisk (*) to represent all usernames.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
Message	String	operation success	The returned message.
RequestId	String	56729737-C428-4E1B-AC68-7A8C2D5****	The ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

### Sample request

```

http(s)://[Endpoint]/? Action=CreateAcl
&AclOperationType=Read
&AclResourceName=X***
&AclResourcePatternType=LITERAL
&AclResourceType=Group
&InstanceId=alikafka_pre-cn-v0h1cng00***
&RegionId=cn-hangzhou
&Username=test***
&<Common request parameters>

```

### Sample success responses

#### XML format

```

<CreateAclResponse>
  <RequestId>56729737-C428-4E1B-AC68-7A8C2D5****</RequestId>
  <Message>operation success</Message>
  <Code>200</Code>
  <Success>>true</Success>
</CreateAclResponse>

```

JSON format

```
{
  "CreateAclResponse": {
    "RequestId": "56729737-C428-4E1B-AC68-7A8C2D5****",
    "Message": "operation success",
    "Code": 200,
    "Success": true
  }
}
```

### Error codes

For a list of error codes, visit the [API Error Center](#).

## 15.2. DescribeAcls

Queries access control lists (ACLs).

### Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAcls	The operation that you want to perform. Set the value to <b>DescribeAcls</b> .
AclResourceName	String	Yes	demo	The name of the resource. <ul style="list-style-type: none"> <li>The value can be the name of a topic or consumer group.</li> <li>You can use an asterisk (*) to represent the names of all topics or consumer groups.</li> </ul>
AclResourceType	String	Yes	Topic	The type of the resource. Valid values: <ul style="list-style-type: none"> <li><b>Topic</b></li> <li><b>Group</b></li> </ul>
InstanceId	String	Yes	alikafka_pre-cn-v0h1cng0***	The ID of the Message Queue for Apache Kafka instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.

Parameter	Type	Required	Example	Description
Username	String	Yes	test12****	The username of the Simple Authentication and Security Layer (SASL) user.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
KafkaAclList	Array		The list of returned ACLs.
KafkaAclVO			
AclOperationType	String	Write	The type of operations allowed by the ACL.
AclResourceName	String	demo	The name of the resource.
AclResourcePatternType	String	LITERAL	The matching mode.
AclResourceType	String	Topic	The type of the resource.
Host	String	*	The host.
Username	String	test12***	The username of the SASL user.
Message	String	operation success.	The returned message.
RequestId	String	46496E38-881E-4719-A2F3-F3DA6AEA***	The ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

### Sample request

```
http(s)://[Endpoint]/? Action=DescribeAcls
&AclResourceName=demo
&AclResourceType=Topic
&InstanceId=alikafka_pre-cn-v0h1cng0***
&RegionId=cn-hangzhou
&Username=test12****
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<DescribeAclsResponse>
  <RequestId>46496E38-881E-4719-A2F3-F3DA6AEA***</RequestId>
  <Message>operation success. </Message>
  <Code>200</Code>
  <Success>>true</Success>
  <KafkaAclList>
    <KafkaAclVO>
      <AclResourceName>demo</AclResourceName>
      <Username>test12***</Username>
      <AclResourceType>Topic</AclResourceType>
      <AclOperationType>Write</AclOperationType>
      <AclResourcePatternType>LITERAL</AclResourcePatternType>
      <Host>*</Host>
    </KafkaAclVO>
  </KafkaAclList>
</DescribeAclsResponse>
```

#### JSON format

```

{
  "DescribeAclsResponse": {
    "RequestId": "46496E38-881E-4719-A2F3-F3DA6AEA***",
    "Message": "operation success.",
    "Code": 200,
    "Success": true,
    "KafkaAclList": {
      "KafkaAclVO": {
        "AclResourceName": "demo",
        "Username": "test12***",
        "AclResourceType": "Topic",
        "AclOperationType": "Write",
        "AclResourcePatternType": "LITERAL",
        "Host": "*"
      }
    }
  }
}

```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 15.3. DeleteAcl

Deletes an access control list (ACL).

## Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteAcl	The operation that you want to perform. Set the value to <b>DeleteAcl</b> .
AclOperationType	String	Yes	Write	The type of operations allowed by the ACL. Valid values: <ul style="list-style-type: none"> <li><b>Write</b></li> <li><b>Read</b></li> </ul>

Parameter	Type	Required	Example	Description
AclResourceName	String	Yes	demo	The name of the resource. <ul style="list-style-type: none"> <li>The value can be the name of a topic or consumer group.</li> <li>You can use an asterisk (*) to represent the names of all topics or consumer groups.</li> </ul>
AclResourcePatternType	String	Yes	LITERAL	The matching mode. Valid values: <ul style="list-style-type: none"> <li><b>LITERAL</b>: full match</li> <li><b>PREFIXED</b>: prefix match</li> </ul>
AclResourceType	String	Yes	Topic	The type of the resource. <ul style="list-style-type: none"> <li><b>Topic</b></li> <li><b>Group</b></li> </ul>
InstanceId	String	Yes	alikafka_pre-cn-v0h1cng0****	The ID of the Message Queue for Apache Kafka instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the Message Queue for Apache Kafka instance is located.
Username	String	Yes	test12****	The username of the Simple Authentication and Security Layer (SASL) user.

## Response parameters

Parameter	Type	Example	Description
Code	Integer	200	The returned HTTP status code. A 200 status code indicates that the request succeeded.
Message	String	operation success	The returned message.
RequestId	String	B0740227-AA9A-4E14-8E9F-36ED6652****	The ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

## Examples

Sample request



```
http(s)://[Endpoint]/? Action=DeleteAcl
&AclOperationType=Write
&AclResourceName=demo
&AclResourcePatternType=LITERAL
&AclResourceType=Topic
&InstanceId=alikafka_pre-cn-v0h1cng0****
&RegionId=cn-hangzhou
&Username=test12****
&<Common request parameters>
```

### Sample success responses

#### XML format

```
<DeleteAclResponse>
  <RequestId>B0740227-AA9A-4E14-8E9F-36ED6652****</RequestId>
  <Message>operation success</Message>
  <Code>200</Code>
  <Success>>true</Success>
</DeleteAclResponse>
```

#### JSON format

```
{
  "DeleteAclResponse": {
    "RequestId": "B0740227-AA9A-4E14-8E9F-36ED6652****",
    "Message": "operation success",
    "Code": 200,
    "Success": true
  }
}
```

## Error codes

For a list of error codes, visit the [API Error Center](#).

# 16.Cloud Monitor resource reports

## 16.1. Introduction

You can call the resource reports API operations of CloudMonitor to query the usage of resources, including an instance, a consumer group, and a topic of Message Queue for Apache Kafka.

### Metrics

The resource reports API of CloudMonitor supports the following metrics for Message Queue for Apache Kafka.

Metric	Description	Unit	Dimension
instance_disk_capacity	The disk usage of a Message Queue for Apache Kafka instance.	%	instanceld
instance_message_input	The production traffic of a Message Queue for Apache Kafka instance.	bytes/s	instanceld
instance_message_output	The consumption traffic of a Message Queue for Apache Kafka instance.	bytes/s	instanceld
message_accumulation	The number of unconsumed messages for a consumer group.	Count	<ul style="list-style-type: none"> <li>instanceld</li> <li>consumerGroup</li> </ul>
message_accumulation_onetopic	The number of unconsumed messages in the topic for a consumer group.	Count	<ul style="list-style-type: none"> <li>instanceld</li> <li>consumerGroup</li> <li>topic</li> </ul>
topic_message_input	The production traffic of a topic.	bytes/s	<ul style="list-style-type: none"> <li>instanceld</li> <li>topic</li> </ul>
topic_message_output	The consumption traffic of a topic.	bytes/s	<ul style="list-style-type: none"> <li>instanceld</li> <li>topic</li> </ul>

### List of operations by function

- [DescribeMetricMetaList](#)
- [DescribeMetricLast](#)
- [DescribeMetricList](#)
- [DescribeMetricData](#)
- [DescribeMetricTop](#)
- [DescribeProjectMeta](#)

### API operations

For the information about how to call the CloudMonitor resource reports API operations, see [Request method](#).

## 16.2. DescribeMetricMetaList

You can call this operation to query the descriptions of time series metrics that are supported in CloudMonitor.

This operation is usually used together with DescribeMetricList and DescribeMetricLast to query monitoring data.

### Debugging

You can call this operation in OpenAPI Explorer without the need to manually calculate the signature. After you call the operation, OpenAPI Explorer can automatically generate SDK code samples.

### Request parameters

Parameter	Type	Required	Example	Description
Namespace	String	Yes	acs_kvstore	The namespace of the monitored service. Namespaces are used to distinguish between different services.
Action	String	No	DescribeMetricMetaList	The operation that you want to perform. Set this parameter to DescribeMetricMetaList.
Labels	String	No	<code>[{"name": "productCategory", "value": "kvstore_old"}]</code>	<p>The tags of the metric. You must specify the tags in the following format: <code>[{"name": "tag name", "value": "tag value"}, {"name": "tag name", "value": "tag value"}]</code> .</p> <p>The following are the available tag names:</p> <ul style="list-style-type: none"> <li>metricCategory: the category of the metrics.</li> <li>alertEnable: specifies whether to enable alerts.</li> <li>alertUnit: the unit of the metric in the alert.</li> <li>unitFactor: the factor for metric unit conversion.</li> <li>minAlertPeriod: the minimum time interval to raise a new alert.</li> <li>productCategory: the category of the service.</li> </ul>
MetricName	String	No	CPUUtilization	The name of the metric. The metric with the specified name is matched.

Parameter	Type	Required	Example	Description
PageNumber	Integer	No	1	The number of the page. Default value: 1.
PageSize	Integer	No	30	The maximum number of records on each page. Default value: 30.

## Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the call is successful.
Code	String	200	The status code. A value of 200 indicates that the call is successful.
RequestId	String	0CCE0AF0-053C-4B13-A583-DC9A85785D49	The ID of the request, which can be used for troubleshooting.
Message	String	success	The error message.
Resources			The list of the metrics.
Description	String	CPUUtilization	The description of the metric.
Dimensions	String	instanceId	The dimensions of the metric. Multiple dimensions are separated with commas (,), for example, userId,instanceId.
Labels	String	<pre>[{"name": "alertUnit", "value": "Bytes"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instance"}, {"name": "instanceType", "value": "disaster"}, {"name": "is_alarm", "value": "true"}, {"name": "productCategory", "value": "kvstore_old"}]</pre>	<p>The tags of the metric. The value is a JSON array string. The array can include repeated tag names. Sample value: [{"name": "tag name", "value": "tag value"}] .</p> <p>The following are the available tag names:</p> <ul style="list-style-type: none"> <li>metricCategory: the category of the metrics.</li> <li>alertEnable: indicates whether the alert is enabled.</li> <li>alertUnit: the unit of the metric in the alert.</li> <li>unitFactor: the factor for metric unit conversion.</li> <li>minAlertPeriod: the minimum time interval to raise a new alert.</li> <li>productCategory: the category of the service.</li> </ul>
MetricName	String	CPUUtilization	The name of the metric.

Parameter	Type	Example	Description
Namespace	String	acs_kvstore	The namespace of the monitored service. The namespace is usually in the acs_service name format.
Periods	String	60,300	The statistical period of the metric. Multiple periods are separated with commas (,), for example, 15,60,900.
Statistics	String	Average,Minimum,Maximum	The statistical method. Multiple statistical methods are separated with commas (,), for example, Average,Minimum,Maximum.
Unit	String	%	The unit of the metric.
TotalCount	String	12	The total number of returned records.

## Examples

### Sample request

```
http(s)://[Endpoint]/? Action=DescribeMetricMetaList
&Namespace=acs_ecs_dashboard
&<Common request parameters>
```

### Sample success response

#### XML format

```
<DescribeMetricMetaListResponse>
  <TotalCount>120</TotalCount>
  <RequestId>EA94B362-973C-4D6B-BE94-6774E18915C2</RequestId>
  <Success>>true</Success>
  <Code>200</Code>
  <Resources>
    <Resource>
      <Description>ECS.CPUUtilization</Description>
      <Statistics>Average,Minimum,Maximum</Statistics>
      <MetricName>CPUUtilization</MetricName>
      <Labels>[{"name":"alertUnit","value":""}, {"name":"alertDefault","value":"80"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]</Labels>
      <Dimensions>userId,instanceId</Dimensions>
      <Namespace>acs_ecs_dashboard</Namespace>
      <Periods>60,300</Periods>
      <Unit>%</Unit>
    </Resource>
  </Resources>
```

```

</Resource>
<Resource>
  <Description></Description>
  <Statistics>Average,Maximum,Minimum</Statistics>
  <MetricName>DiskReadBPS</MetricName>
  <Labels>[{"name":"alertUnit","value":"Mbytes/s"},{"name":"minAlertPeriod","value":"60"},{"name":"
unitFactor","value":"1048576"},{"name":"metricCategory","value":"instanceld"},{"name":"is_alarm","value
":"true"}]</Labels>
  <Dimensions>userId,instanceld</Dimensions>
  <Namespace>acs_ecs_dashboard</Namespace>
  <Periods>60,300</Periods>
  <Unit>bytes/s</Unit>
</Resource>
<Resource>
  <Description>The read IOPS of the disk</Description>
  <Statistics>Average,Minimum,Maximum</Statistics>
  <MetricName>DiskReadIOPS</MetricName>
  <Labels>[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"na
me":"metricCategory","value":"instanceld"},{"name":"is_alarm","value":"true"}]</Labels>
  <Dimensions>userId,instanceld</Dimensions>
  <Namespace>acs_ecs_dashboard</Namespace>
  <Periods>60,300</Periods>
  <Unit>Count/Second</Unit>
</Resource>
<Resource>
  <Description></Description>
  <Statistics>Average,Maximum,Minimum</Statistics>
  <MetricName>DiskWriteBPS</MetricName>
  <Labels>[{"name":"alertUnit","value":"Mbytes/s"},{"name":"minAlertPeriod","value":"60"},{"name":"
unitFactor","value":"1048576"},{"name":"metricCategory","value":"instanceld"},{"name":"is_alarm","value
":"true"}]</Labels>
  <Dimensions>userId,instanceld</Dimensions>
  <Namespace>acs_ecs_dashboard</Namespace>
  <Periods>60,300</Periods>
  <Unit>bytes/s</Unit>
</Resource>
<Resource>
  <Description>The write IOPS of the disk</Description>
  <Statistics>Average,Minimum,Maximum</Statistics>
  <MetricName>DiskWriteIOPS</MetricName>
  <Labels>[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"na

```

```

me":"metricCategory","value":"instanceId"},"name":"is_alarm","value":"true"]]/Labels>
  <Dimensions>userId,instanceId</Dimensions>
  <Namespace>acs_ecs_dashboard</Namespace>
  <Periods>60,300</Periods>
  <Unit>Count/Second</Unit>
</Resource>
<Resource>
  <Description></Description>
  <Statistics>Average,Minimum,Maximum</Statistics>
  <MetricName>GroupCPUUtilization</MetricName>
  <Labels>[{"name":"alertUnit","value":"%"},"name":"minAlertPeriod","value":"60"},"name":"metricC
category","value":"groupId"]]/Labels>
  <Dimensions>groupId</Dimensions>
  <Namespace>acs_ecs_dashboard</Namespace>
  <Periods>60,300</Periods>
  <Unit>%</Unit>
</Resource>
<Resource>
  <Description></Description>
  <Statistics>Average,Minimum,Maximum</Statistics>
  <MetricName>GroupDiskReadBPS</MetricName>
  <Labels>[{"name":"alertUnit","value":"Mbytes/s"},"name":"minAlertPeriod","value":"60"},"name":"
unitFactor","value":"1048576"},"name":"metricCategory","value":"groupId"]]/Labels>
  <Dimensions>groupId</Dimensions>
  <Namespace>acs_ecs_dashboard</Namespace>
  <Periods>60,300</Periods>
  <Unit>bytes/s</Unit>
</Resource>
<Resource>
  <Description></Description>
  <Statistics>Average,Minimum,Maximum</Statistics>
  <MetricName>GroupDiskReadIOPS</MetricName>
  <Labels>[{"name":"alertUnit","value":"Count/Second"},"name":"minAlertPeriod","value":"60"},"na
me":"metricCategory","value":"groupId"]]/Labels>
  <Dimensions>groupId</Dimensions>
  <Namespace>acs_ecs_dashboard</Namespace>
  <Periods>60,300</Periods>
  <Unit>Count/Second</Unit>
</Resource>
<Resource>
  <Description></Description>

```

```

    <Statistics>Average,Minimum,Maximum</Statistics>
    <MetricName>GroupDiskWriteBPS</MetricName>
    <Labels>[{"name":"alertUnit","value":"Mbytes/s"},{"name":"minAlertPeriod","value":"60"},{"name":"unitFactor","value":"1048576"},{"name":"metricCategory","value":"groupId"}]</Labels>
    <Dimensions>groupId</Dimensions>
    <Namespace>acs_ecs_dashboard</Namespace>
    <Periods>60,300</Periods>
    <Unit>bytes/s</Unit>
  </Resource>
  <Resource>
    <Description></Description>
    <Statistics>Average,Minimum,Maximum</Statistics>
    <MetricName>GroupDiskWriteIOPS</MetricName>
    <Labels>[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"groupId"}]</Labels>
    <Dimensions>groupId</Dimensions>
    <Namespace>acs_ecs_dashboard</Namespace>
    <Periods>60,300</Periods>
    <Unit>Count/Second</Unit>
  </Resource>
</Resources>
</DescribeMetricMetaListResponse>

```

### JSON format

```

{
  "TotalCount":1853,
  "RequestId":"CDE9EAFF-D54E-4024-BBFC-B0AAC883143B",
  "Success":true,
  "Code":200,
  "Resources":{
    "Resource":[
      {
        "Description": "The disk size",
        "MetricName":"ads.diskSize",
        "Statistics":"Average,Minimum,Maximum",
        "Labels":[{"name":"minAlertPeriod","value":"300"},{"name":"alertDefault","value":""},{"name":"unitFactor","value":"1"},{"name":"alertUnit","value":"Mbytes"},{"name":"productCategory","value":"ads"},{"name":"is_alarm","value":"true"},{"name":"metricCategory","value":"workerId"}],
        "Dimensions":"userId.instanceId.tableSchema.workerId".

```



```

    "Dimensions": "userId,instanceId,tableSchema,workerId",
    "Namespace": "acs_ads",
    "Periods": "300",
    "Unit": "Mbytes"
  },
  {
    "Description": "The used space of the disk",
    "MetricName": "ads.diskUsed",
    "Statistics": "Average,Minimum,Maximum",
    "Labels": "[{"name": "alertUnit", "value": "Mbytes"}, {"name": "minAlertPeriod", "value": "300"}, {"name": "metricCategory", "value": "workerId"}, {"name": "is_alarm", "value": "true"}]",
    "Dimensions": "userId,instanceId,tableSchema,workerId",
    "Namespace": "acs_ads",
    "Periods": "300",
    "Unit": "Mbytes"
  },
  {
    "Description": "The disk utilization",
    "MetricName": "ads.diskUsedPercent",
    "Statistics": "Average,Minimum,Maximum",
    "Labels": "[{"name": "alertUnit", "value": "%"}, {"name": "minAlertPeriod", "value": "300"}, {"name": "metricCategory", "value": "workerId"}, {"name": "is_alarm", "value": "true"}]",
    "Dimensions": "userId,instanceId,tableSchema,workerId",
    "Namespace": "acs_ads",
    "Periods": "300",
    "Unit": "%"
  },
  {
    "Description": "The number of unconsumed messages in the queue",
    "MetricName": "QueueMessageAccumulation",
    "Statistics": "Maximum",
    "Labels": "[{"name": "minAlertPeriod", "value": "60"}, {"name": "alertDefault", "value": ""}, {"name": "unitFactor", "value": "1"}, {"name": "alertUnit", "value": "count/min"}, {"name": "productCategory", "value": "amqp"}, {"name": "is_alarm", "value": "true"}, {"name": "metricCategory", "value": "queue"}]",
    "Dimensions": "userId,regionId,vhostName,queueName",
    "Namespace": "acs_amqp",
    "Periods": "60,300",
    "Unit": "count/min"
  },
  {

```

```

    "Description": "The number of new messages in the queue per minute",
    "MetricName": "QueueMessageInput",
    "Statistics": "Value",
    "Labels": "[{"name": "minAlertPeriod", "value": "60"}, {"name": "alertDefault", "value": ""}, {"name": "unitFactor", "value": "1"}, {"name": "alertUnit", "value": "count/min"}, {"name": "productCategory", "value": "amqp"}, {"name": "is_alarm", "value": "true"}, {"name": "metricCategory", "value": "queue"}]",
    "Dimensions": "userId,regionId,vhostName,queueName",
    "Namespace": "acs_amqp",
    "Periods": "60,300",
    "Unit": "count/min"
  },
  {
    "Description": "The number of unconsumed messages in the queue",
    "MetricName": "QueueMessageOutput",
    "Statistics": "Value",
    "Labels": "[{"name": "minAlertPeriod", "value": "60"}, {"name": "alertDefault", "value": ""}, {"name": "unitFactor", "value": "1"}, {"name": "alertUnit", "value": "count/min"}, {"name": "productCategory", "value": "amqp"}, {"name": "is_alarm", "value": "true"}, {"name": "metricCategory", "value": "queue"}]",
    "Dimensions": "userId,regionId,vhostName,queueName",
    "Namespace": "acs_amqp",
    "Periods": "60,300",
    "Unit": "count/min"
  },
  {
    "Description": "The number of messages generated by the instance per minute",
    "MetricName": "VhostMessageInput",
    "Statistics": "Value",
    "Labels": "[{"name": "minAlertPeriod", "value": "60"}, {"name": "alertDefault", "value": ""}, {"name": "unitFactor", "value": "1"}, {"name": "alertUnit", "value": "count/min"}, {"name": "productCategory", "value": "amqp"}, {"name": "is_alarm", "value": "true"}, {"name": "metricCategory", "value": "vhost"}]",
    "Dimensions": "userId,regionId,vhostName",
    "Namespace": "acs_amqp",
    "Periods": "60,300",
    "Unit": "count/min"
  },
  {
    "Description": "The number of messages consumed by the instance per minute",
    "MetricName": "VhostMessageOutput",

```

```

"Statistics": "Value",
  "Labels": "[{"name": "minAlertPeriod", "value": "60"}, {"name": "alertDefault", "value": ""}, {"name": "unitFactor", "value": "1"}, {"name": "alertUnit", "value": "count/min"}, {"name": "productCategory", "value": "amqp"}, {"name": "is_alarm", "value": "true"}, {"name": "metricCategory", "value": "vhost"}]",
  "Dimensions": "userId,regionId,vhostName",
  "Namespace": "acs_amqp",
  "Periods": "60,300",
  "Unit": "count/min"
},
{
  "Description": "",
  "MetricName": "Latency",
  "Statistics": "Average",
  "Labels": "[{"name": "alertUnit", "value": "ms"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
  "Dimensions": "userId,region,apiUid",
  "Namespace": "acs_apigateway_dashboard",
  "Periods": "60,300,900",
  "Unit": "ms"
},
{
  "Description": "",
  "MetricName": "SumQPS",
  "Statistics": "Count",
  "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
  "Dimensions": "userId,region,apiUid",
  "Namespace": "acs_apigateway_dashboard",
  "Periods": "60,300,900",
  "Unit": "Count"
},
{
  "Description": "",
  "MetricName": "TrafficRX",
  "Statistics": "Sum",
  "Labels": "[{"name": "alertUnit", "value": "KBytes"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
  "Dimensions": "userId,region,apiUid",
  "Namespace": "acs_apigateway_dashboard",
  "Periods": "60,300,900"
}

```

```

        "Periods": "60,300,900",
        "Unit": "KBytes"
    },
    {
        "Description": "",
        "MetricName": "TrafficTX",
        "Statistics": "Sum",
        "Labels": "[{"name": "alertUnit", "value": "KBytes"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
        "Dimensions": "userId,region,apiUid",
        "Namespace": "acs_apigateway_dashboard",
        "Periods": "60,300,900",
        "Unit": "KBytes"
    },
    {
        "Description": "",
        "MetricName": "code2XX",
        "Statistics": "Value",
        "Labels": "[{"name": "alertUnit", "value": "count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
        "Dimensions": "userId,region,apiUid",
        "Namespace": "acs_apigateway_dashboard",
        "Periods": "60,300",
        "Unit": "count"
    },
    {
        "Description": "",
        "MetricName": "code4XX",
        "Statistics": "Value",
        "Labels": "[{"name": "alertUnit", "value": "count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
        "Dimensions": "userId,region,apiUid",
        "Namespace": "acs_apigateway_dashboard",
        "Periods": "60,300",
        "Unit": "count"
    },
    {
        "Description": "",
        "MetricName": "code5XX",
        "Statistics": "Value",
        "Labels": "[{"name": "alertUnit", "value": "count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
        "Dimensions": "userId,region,apiUid",
        "Namespace": "acs_apigateway_dashboard",
        "Periods": "60,300",
        "Unit": "count"
    }
]

```

```

ame\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}],
  \"Dimensions\": \"userId,region,apiUid\",
  \"Namespace\": \"acs_apigateway_dashboard\",
  \"Periods\": \"60,300\",
  \"Unit\": \"count\"
},
{
  \"Description\": \"\",
  \"MetricName\": \"net_rx.Pkgs\",
  \"Statistics\": \"Value\",
  \"Labels\": \"[{\"name\": \"alertUnit\", \"value\": \"pps\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]\",
  \"Dimensions\": \"userId,instanceId\",
  \"Namespace\": \"acs_bandwidth_package\",
  \"Periods\": \"60,300,600\",
  \"Unit\": \"pps\"
},
{
  \"Description\": \"\",
  \"MetricName\": \"net_rx.rate\",
  \"Statistics\": \"Value\",
  \"Labels\": \"[{\"name\": \"alertUnit\", \"value\": \"Mbits/s\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"unitFactor\", \"value\": \"1048576\"}, {\"name\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]\",
  \"Dimensions\": \"userId,instanceId\",
  \"Namespace\": \"acs_bandwidth_package\",
  \"Periods\": \"60,300,600\",
  \"Unit\": \"bits/s\"
},
{
  \"Description\": \"\",
  \"MetricName\": \"net_tx.Pkgs\",
  \"Statistics\": \"Value\",
  \"Labels\": \"[{\"name\": \"alertUnit\", \"value\": \"pps\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]\",
  \"Dimensions\": \"userId,instanceId\",
  \"Namespace\": \"acs_bandwidth_package\",
  \"Periods\": \"60,300,600\",
  \"Unit\": \"pps\"
},
{

```

```

    "Description": "",
    "MetricName": "net_tx.rate",
    "Statistics": "Value",
    "Labels": [{"name": "alertUnit", "value": "Mbits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "unitFactor", "value": "1048576"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}],
    "Dimensions": "userId,instanceId",
    "Namespace": "acs_bandwidth_package",
    "Periods": "60,300,600",
    "Unit": "bits/s"
  },
  {
    "Description": "",
    "MetricName": "net_tx.ratePercent",
    "Statistics": "Value",
    "Labels": [{"name": "alertUnit", "value": "%"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}],
    "Dimensions": "userId,instanceId",
    "Namespace": "acs_bandwidth_package",
    "Periods": "60,300,600",
    "Unit": "%"
  },
  {
    "Description": "The maximum network traffic per unit time",
    "MetricName": "BPS",
    "Statistics": "Average,Minimum,Maximum",
    "Labels": [{"name": "alertUnit", "value": "Mbits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "unitFactor", "value": "1000000"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "unitFactor", "value": "1000"}, {"name": "is_alarm", "value": "true"}],
    "Dimensions": "userId,instanceId",
    "Namespace": "acs_cdn",
    "Periods": "60,300",
    "Unit": "bits/s"
  },
  {
    "Description": "",
    "MetricName": "GroupBPS",
    "Statistics": "Sum",
    "Labels": [{"name": "alertUnit", "value": "Mbits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "unitFactor", "value": "1000000"}, {"name": "metricCategory", "value": "groupId"}, {"name": "unitFactor", "value": "1000"}]
  }

```

```

: \ unitFactor \ , \ value \ : \ 1000 \ } ] ,
  "Dimensions": "userId,groupId",
  "Namespace": "acs_cdn",
  "Periods": "60,300",
  "Unit": "bits/s"
},
{
  "Description": "",
  "MetricName": "GroupInternetOut",
  "Statistics": "Sum",
  "Labels": "[{\name\": \"alertUnit\", \"value\": \"Mbytes\"}, {\name\": \"minAlertPeriod\", \"value\": \"60\"}, {\name\": \"unitFactor\", \"value\": \"1000000\"}, {\name\": \"metricCategory\", \"value\": \"groupId\"}, {\name\": \"unitFactor\", \"value\": \"1000\"}]",
  "Dimensions": "userId,groupId",
  "Namespace": "acs_cdn",
  "Periods": "60,300",
  "Unit": "bytes"
},
{
  "Description": "The downstream traffic",
  "MetricName": "InternetOut",
  "Statistics": "Sum",
  "Labels": "[{\name\": \"alertUnit\", \"value\": \"Mbytes\"}, {\name\": \"minAlertPeriod\", \"value\": \"60\"}, {\name\": \"unitFactor\", \"value\": \"1000000\"}, {\name\": \"metricCategory\", \"value\": \"instanceId\"}, {\name\": \"unitFactor\", \"value\": \"1000\"}, {\name\": \"is_alarm\", \"value\": \"true\"}]",
  "Dimensions": "userId,instanceId",
  "Namespace": "acs_cdn",
  "Periods": "60,300",
  "Unit": "bytes"
},
{
  "Description": "The average number of accesses in the specified time range",
  "MetricName": "QPS",
  "Statistics": "Average,Minimum,Maximum",
  "Labels": "[{\name\": \"alertUnit\", \"value\": \"Count\"}, {\name\": \"minAlertPeriod\", \"value\": \"60\"}, {\name\": \"metricCategory\", \"value\": \"instanceId\"}, {\name\": \"is_alarm\", \"value\": \"true\"}]",
  "Dimensions": "userId,instanceId",
  "Namespace": "acs_cdn",
  "Periods": "60,300",
  "Unit": "Count"
},

```

```

{
  "Description": "",
  "MetricName": "UserQPS",
  "Statistics": "Average",
  "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "alertDefault", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "userId"}]",
  "Dimensions": "userId",
  "Namespace": "acs_cdn",
  "Periods": "60,300",
  "Unit": ""
},
{
  "Description": "",
  "MetricName": "Usercode4xx",
  "Statistics": "Average",
  "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "userId"}]",
  "Dimensions": "userId",
  "Namespace": "acs_cdn",
  "Periods": "60",
  "Unit": "Count"
},
{
  "Description": "",
  "MetricName": "Usercode5xx",
  "Statistics": "Average",
  "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "userId"}]",
  "Dimensions": "userId",
  "Namespace": "acs_cdn",
  "Periods": "60",
  "Unit": "Count"
},
{
  "Description": "",
  "MetricName": "UserhitRate",
  "Statistics": "Average",
  "Labels": "[{"name": "alertUnit", "value": "%"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "userId"}]",
  "Dimensions": "userId",
  "Namespace": "acs_cdn",

```



```

    "Periods": "60",
    "Unit": "%"
  },
  {
    "Description": "The percentage of 4XX HTTP status codes over total status codes in a specified time range"
  },
  {
    "MetricName": "code4xx",
    "Statistics": "Average,Minimum,Maximum",
    "Labels": "[{"name": "alertUnit", "value": "%"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Dimensions": "userId,instanceId",
    "Namespace": "acs_cdn",
    "Periods": "60,300",
    "Unit": "%"
  }
]
}
}

```

## Error codes

For more information, see [Error codes](#).

# 16.3. DescribeMetricLast

You can call this operation to query the latest monitoring data of a monitored object.

For more information about how to assign values to the Project, Metric, Period, and Dimensions parameters for cloud services, call DescribeMetricMetaList or see [Preset metrics reference](#).

## Debugging

You can use [API Explorer](#) to perform debugging. API Explorer allows you to perform various operations to simplify API usage. For example, you can retrieve APIs, call APIs, and dynamically generate SDK example code.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeMetricLast	The operation that you want to perform. Set the value to DescribeMetricLast.
MetricName	String	Yes	CPUUtilization	The name of the metric.

Parameter	Type	Required	Example	Description
Namespace	String	Yes	acs_ecs_dashboa rd	The namespace of the monitored service. It is in the acs_service name format.
Dimensions	String	No	[{"instanceld":"XX X"}]	The resources to be monitored in the key-value format. The common key-value set is "instanceld:XXXXXX." If you hope to see a key-value map expressed by JSON strings, set Dimensions to ordered strings.
EndTime	String	No	2019-01-31 10:10:00	The end time. It can be the time that has passed since 00:00:00, January 1, 1970 in milliseconds, or a time in the 2015-10-20 00:00:00 format.
Express	String	No	{"groupby": ["userId","instanc eld"]}	The expression for real-time computation based on the existing results, such as {"groupby": ["instanceld"]} .
Length	String	No	1000	The number of monitoring data records on each page. It is used in paged queries. Default value: 1000.
NextToken	String	No	xxxxx	The cursor used for paging.
Period	String	No	60	The time interval at which monitoring data is queried. Unit: second. If this parameter is not specified, raw data is queried at the report period specified when the corresponding metric was created. If this parameter is specified, raw data is queried at the specified period.
StartTime	String	No	2019-01-31 10:00:00	The start time. It can be the time that has passed since 00:00:00, January 1, 1970 in milliseconds, or a time in the 2015-10-20 00:00:00 format.

### Response parameters

Parameter	Type	Example	Description
Success	String	true	Indicates whether the call is successful. A value of true indicates that the call is successful. A value of false indicates that the call has failed.

Parameter	Type	Example	Description
Code	String	200	The status code. A value of 200 indicates that the call is successful.
Message	String	Success	The error message. This parameter is null when Code is 200.
NextToken	String	xxxxxx	The cursor used for paging.
Period	String	60	The time interval at which monitoring data is queried. Unit: second.
RequestId	String	021472A6-25E3-4094-8D00-BA4B6A5486C3	The request ID for troubleshooting.
Datapoints	String	<pre>[{"timestamp":1548777660000,"userId":"123","instanceId":"i-abc","Minimum":9.92,"Average":9.92,"Maximum":9.92}]</pre>	The list of monitoring data in the following format: { "timestamp" :1490164200000, "Maximum" :100, "userId" : "123456789876****" , "Minimum" :4.55, "instanceId" : "i-bp18abl200xk9599****" , "Average" :93.84 } .

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=DescribeMetricLast
&MetricName=CPUUtilization
&Namespace=acs_ecs_dashboard
&<Common request parameters>
```

### Successful response examples

#### XML format

```
<QueryMetricListResponse>
  <Period>60</Period>
  <Datapoints>
    <Datapoints>
      <timestamp>1490152860000</timestamp>
      <Maximum>100</Maximum>
      <userId> 123456789876****</userId>
      <Minimum>93.1</Minimum>
      <instanceId>i-abcdefgh12****</instanceId>
      <Average>99.52</Average>
```

```
</Datapoints>
<Datapoints>
  <timestamp>1490152920000</timestamp>
  <Maximum>100</Maximum>
  <userId> 123456789876**** </userId>
  <Minimum>92.59</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.49</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490152980000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.86</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.44</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153040000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.43</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.36</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153100000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>93.55</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.51</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153160000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>93.1</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.52</Average>
</Datapoints>
```

```
</Datapoints>
<Datapoints>
  <timestamp>1490153220000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.59</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.42</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153280000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.18</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.34</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153340000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.86</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.46</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153400000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.18</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.35</Average>
</Datapoints>
</Datapoints>
<RequestId>6661EC50-8625-4161-B349-E0DD59002AB7</RequestId>
<Success>true</Success>
<Code>200</Code>
</QueryMetricListResponse>
```

JSON format

```
{
  "Period": "60",
  "Datapoints": [
    {
      "timestamp": 1490152860000,
      "Maximum": 100,
      "userId": "123456789876****",
      "instanceId": "i-abcdefgh12****",
      "Minimum": 93.1,
      "Average": 99.52
    },
    {
      "timestamp": 1490152920000,
      "Maximum": 100,
      "userId": "123456789876****",
      "instanceId": "i-abcdefgh12****",
      "Minimum": 92.59,
      "Average": 99.49
    },
    {
      "timestamp": 1490152980000,
      "Maximum": 100,
      "userId": "123456789876****",
      "instanceId": "i-abcdefgh12****",
      "Minimum": 92.86,
      "Average": 99.44
    },
    {
      "timestamp": 1490153040000,
      "Maximum": 100,
      "userId": "123456789876****",
      "instanceId": "i-abcdefgh12****",
      "Minimum": 91.43,
      "Average": 99.36
    },
    {
      "timestamp": 1490153100000,
      "Maximum": 100,
      "userId": "123456789876****",
      "instanceId": "i-abcdefgh12****",
      "Minimum": 93.55,
```

```
"Average":99.51
},
{
  "timestamp":1490153160000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":93.1,
  "Average":99.52
},
{
  "timestamp":1490153220000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":92.59,
  "Average":99.42
},
{
  "timestamp":1490153280000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":91.18,
  "Average":99.34
},
{
  "timestamp":1490153340000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":92.86,
  "Average":99.46
},
{
  "timestamp":1490153400000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":91.18,
  "Average":99.35
```

```

Average: 59.55
}
],
"RequestId": "6A5F022D-AC7C-460E-94AE-B9E75083D027",
"Success": true,
"Code": "200"
}
    
```

### Error code

[View error codes](#)

## 16.4. DescribeMetricList

You can call this operation to query the monitoring data on time series metrics of cloud services in a specified period in time.

### Parameter description

- For more information about how to assign values to the Project, Metric, Period, and Dimensions parameters for cloud services, call DescribeMetricList or see [Preset metrics reference](#).
- The period specified by StartTime and EndTime includes the time point specified by EndTime but does not include the time point specified by StartTime. StartTime cannot be the same as or later than EndTime.
- Cursor is a paging parameter. If this parameter is null, the current page is the last page. Otherwise, the current page is not the last page.
- The typical values of Period is 60 (1 minute), 300 (5 minutes), and 900 (15 minutes). You can set this parameter based on related documents or your actual needs. For example, if you set Period to 60, 1,000 instead of 1,440 data records will be returned each day, because the maximum number of records that can be returned each day is 1,000. If you set Period to 300, 288 data records will be returned.

### Debugging

You can use [API Explorer](#) to perform debugging. API Explorer allows you to perform various operations to simplify API usage. For example, you can retrieve APIs, call APIs, and dynamically generate SDK example code.

### Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeMetricList	The operation that you want to perform. Set the value to DescribeMetricList.
MetricName	String	Yes	cpu_idle	The name of the metric.
Namespace	String	Yes	acs_ecs_dashboard	The namespace of the monitored service.



Parameter	Type	Required	Example	Description
Dimensions	String	No	<code>[{"instanceId": "i-abcdefgh12****"}]</code>	The resources to be monitored in the key-value format. The common key-value set is "instanceId:XXXXXX." If you hope to see a key-value map expressed by JSON strings, set Dimensions to ordered strings.
EndTime	String	No	2019-01-30 00:10:00	The end time. It can be the time that has passed since 00:00:00, January 1, 1970 in milliseconds, or a time in the 2015-10-20 00:00:00 format.
Express	String	No	<code>{"groupby": ["userId", "instanceId"]}</code>	The expression for real-time computation based on the existing results, such as <code>{"groupby": ["instanceId"]}</code> .
Length	String	No	1000	The number of records returned by each query. It is used in paged queries. Default value: 1000.
NextToken	String	No	xxxxxxxxxxxx	The cursor used for paging.
Period	String	No	60	The time interval at which monitoring data is queried. Unit: second. If this parameter is not specified, raw data is queried at the minimum report period of the corresponding metric. If this parameter is specified, raw data is queried at the specified period.
StartTime	String	No	2019-01-30 00:00:00	The start time. It can be the time that has passed since 00:00:00, January 1, 1970 in milliseconds, or a time in the 2015-10-20 00:00:00 format.

## Response parameters

Parameter	Type	Example	Description
RequestId	String	3121AE7D-4AFF-4C25-8F1D-C8226EBB1F42	The request ID for troubleshooting.
Message	String	Success	The error message. This parameter is null when Code is 200.

Parameter	Type	Example	Description
Datapoints	String	[[{"timestamp":1548777660000,"userId":"123","instanceld":"i-abc","Minimum":9.92,"Average":9.92,"Maximum":9.92}]]	The list of monitoring data in the following format: { "timestamp" :1490164200000, "Maximum" :100, "userId" : "123456789876****" , "Minimum" :4.55, "instanceld" : "i-bp18abl200xk9599****" , "Average" :93.84 } .
NextToken	String	xxxxxxxxxxxx	The cursor used for paging.
Period	String	60	The time interval at which monitoring data is queried. Unit: second.
Code	String	200	The status code. A value of 200 indicates that the call is successful.
Success	String	true	Indicates whether an operation is performed successfully. If there is an exception on the server, the value "false" is returned. If no exception occurs, the value "true" is returned.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=DescribeMetricList
&MetricName=cpu_idle
&Namespace=acs_ecs_dashboard
&<Common request parameters>
```

### Successful response examples

#### XML format

```
<QueryMetricListResponse>
  <Period>60</Period>
  <Datapoints>
    <Datapoints>
      <timestamp>1490152860000</timestamp>
      <Maximum>100</Maximum>
      <userId> 123456789876****</userId>
      <Minimum>93.1</Minimum>
      <instanceld>i-abcdefgh12****</instanceld>
      <Average>99.52</Average>
    </Datapoints>
```

```
</Datapoints>
<Datapoints>
  <timestamp>1490152920000</timestamp>
  <Maximum>100</Maximum>
  <userId> 123456789876**** </userId>
  <Minimum>92.59</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.49</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490152980000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.86</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.44</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153040000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.43</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.36</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153100000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>93.55</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.51</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153160000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>93.1</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.52</Average>
</Datapoints>
```

```
<Datapoints>
  <timestamp>1490153220000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.59</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.42</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153280000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.18</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.34</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153340000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.86</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.46</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153400000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.18</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.35</Average>
</Datapoints>
</Datapoints>
<RequestId>6661EC50-8625-4161-B349-E0DD59002AB7</RequestId>
<Success>>true</Success>
<Code>200</Code>
</QueryMetricListResponse>
```

JSON format

```
{
```

```
"Period": "60",
"Datapoints": [
  {
    "timestamp": 1490152860000,
    "Maximum": 100,
    "userId": "123456789876****",
    "instanceId": "i-abcdefgh12****",
    "Minimum": 93.1,
    "Average": 99.52
  },
  {
    "timestamp": 1490152920000,
    "Maximum": 100,
    "userId": "123456789876****",
    "instanceId": "i-abcdefgh12****",
    "Minimum": 92.59,
    "Average": 99.49
  },
  {
    "timestamp": 1490152980000,
    "Maximum": 100,
    "userId": "123456789876****",
    "instanceId": "i-abcdefgh12****",
    "Minimum": 92.86,
    "Average": 99.44
  },
  {
    "timestamp": 1490153040000,
    "Maximum": 100,
    "userId": "123456789876****",
    "instanceId": "i-abcdefgh12****",
    "Minimum": 91.43,
    "Average": 99.36
  },
  {
    "timestamp": 1490153100000,
    "Maximum": 100,
    "userId": "123456789876****",
    "instanceId": "i-abcdefgh12****",
    "Minimum": 93.55,
    "Average": 99.51
  }
]
```

```
    "Average":99.52
  },
  {
    "timestamp":1490153220000,
    "Maximum":100,
    "userId":"123456789876****",
    "instanceId":"i-abcdefgh12****",
    "Minimum":92.59,
    "Average":99.42
  },
  {
    "timestamp":1490153280000,
    "Maximum":100,
    "userId":"123456789876****",
    "instanceId":"i-abcdefgh12****",
    "Minimum":91.18,
    "Average":99.34
  },
  {
    "timestamp":1490153340000,
    "Maximum":100,
    "userId":"123456789876****",
    "instanceId":"i-abcdefgh12****",
    "Minimum":92.86,
    "Average":99.46
  },
  {
    "timestamp":1490153400000,
    "Maximum":100,
    "userId":"123456789876****",
    "instanceId":"i-abcdefgh12****",
    "Minimum":91.18,
    "Average":99.35
  }
}
```

```
}
],
"RequestId":"6A5F022D-AC7C-460E-94AE-B9E75083D027",
"Success":true,
"Code":"200"
}
```

## Error code

[View error codes](#)

# 16.5. DescribeMetricData

You can call this operation to query the monitoring data on time series metrics of cloud services in a specified period in time.

## Parameter description

Different from DescribeMetricList, this operation provides statistical functions. You can set Dimension to {"userId":"xxx"} to aggregate all data of the specified user.

- For more information about how to assign values to the Project, Metric, Period, and Dimensions parameters for cloud services, call DescribeMetricMetaList or see [Preset metrics reference](#).
- The period specified by StartTime and EndTime includes the time point specified by EndTime but does not include the time point specified by StartTime. StartTime cannot be the same as or later than EndTime.
- Cursor is a paging parameter. If this parameter is null, the current page is the last page. Otherwise, the current page is not the last page.
- The typical values of Period is 60 (1 minute), 300 (5 minutes), and 900 (15 minutes). You can set this parameter based on related documents or your actual needs. For example, if you set Period to 60, 1,000 instead of 1,440 data records will be returned each day, because the maximum number of records that can be returned each day is 1,000. If you set Period to 300, 288 data records will be returned.

## Debugging

You can use [API Explorer](#) to perform debugging. API Explorer allows you to perform various operations to simplify API usage. For example, you can retrieve APIs, call APIs, and dynamically generate SDK example code.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeMetricData	The operation that you want to perform. Set the value to DescribeMetricData.
MetricName	String	Yes	cpu_idle	The name of the metric.
Namespace	String	Yes	acs_ecs_dashboard	The namespace of the monitored service.

Parameter	Type	Required	Example	Description
Dimensions	String	No	<code>[{"instanceld": "i-abcdefgh12****"}]</code>	The resources to be monitored in the key-value format. The common key-value set is "instanceld:XXXXXX." If you hope to see a key-value map expressed by JSON strings, set Dimensions to ordered strings.
EndTime	String	No	2019-01-30 00:10:00	The end time. It can be the time that has passed since 00:00:00, January 1, 1970 in milliseconds, or a time in the 2015-10-20 00:00:00 format.
Express	String	No	<code>"{"groupby": ["userId", "instanceld"]}"</code>	The expression for real-time computation based on the existing results, such as <code>{"groupby": ["instanceld"]}</code> .
Length	String	No	1000	The number of records returned by each query. It is used in paged queries. Default value: 1000.
Period	String	No	60	The time interval at which monitoring data is queried. Unit: second. If this parameter is not specified, raw data is queried at the minimum report period of the corresponding metric. If this parameter is specified, raw data is queried at the specified period.
StartTime	String	No	2019-01-30 00:00:00	The start time. It can be the time that has passed since 00:00:00, January 1, 1970 in milliseconds, or a time in the 2015-10-20 00:00:00 format.

### Response parameters

Parameter	Type	Example	Description
Code	String	200	The status code. A value of 200 indicates that the call is successful.
Datapoints	String	<code>[{"timestamp":1548777660000,"userId": "123****", "instanceld": "i-abc****", "Minimum": 9.92, "Average": 9.92, "Maximum": 9.92}]</code>	The list of monitoring data in the following format: <code>{ "timestamp" :1490164200000, "Maximum" :100, "userId" : "123456789876****" , "Minimum" :4.55, "instanceld" : "i-bp18abl200xk9599****" , "Average" :93.84 }</code> .



Parameter	Type	Example	Description
Message	String	Success	The error message. This parameter is null when Code is 200.
Period	String	60	The time interval at which monitoring data is queried. Unit: second.
RequestId	String	6A5F022D-AC7C-460E-94AE-B9E75083D027	The request ID for troubleshooting.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=DescribeMetricData
&MetricName=cpu_idle
&Namespace=acs_ecs_dashboard
&<Common request parameters>
```

### Successful response examples

#### XML format

```
<DescribeMetricDataResponse>
  <Period>60</Period>
  <Datapoints>
    <Datapoints>
      <timestamp>1490152860000</timestamp>
      <Maximum>100</Maximum>
      <userId> 123456789876****</userId>
      <Minimum>93.1</Minimum>
      <instanceId>i-abcdefgh12****</instanceId>
      <Average>99.52</Average>
    </Datapoints>
    <Datapoints>
      <timestamp>1490152920000</timestamp>
      <Maximum>100</Maximum>
      <userId> 123456789876**** </userId>
      <Minimum>92.59</Minimum>
      <instanceId>i-abcdefgh12****</instanceId>
      <Average>99.49</Average>
    </Datapoints>
    <Datapoints>
      <timestamp>1490152980000</timestamp>
```

```
<Maximum>100</Maximum>
<userId>123456789876****</userId>
<Minimum>92.86</Minimum>
<instanceId>i-abcdefgh12****</instanceId>
<Average>99.44</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153040000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.43</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.36</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153100000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>93.55</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.51</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153160000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>93.1</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.52</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153220000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.59</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.42</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153280000</timestamp>
  <Maximum>100</Maximum>
```

```

</Maximum>100</Maximum>
<userId>123456789876****</userId>
<Minimum>91.18</Minimum>
<instanceId>i-abcdefgh12****</instanceId>
<Average>99.34</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153340000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>92.86</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.46</Average>
</Datapoints>
<Datapoints>
  <timestamp>1490153400000</timestamp>
  <Maximum>100</Maximum>
  <userId>123456789876****</userId>
  <Minimum>91.18</Minimum>
  <instanceId>i-abcdefgh12****</instanceId>
  <Average>99.35</Average>
</Datapoints>
</Datapoints>
<RequestId>6661EC50-8625-4161-B349-E0DD59002AB7</RequestId>
<Success>true</Success>
<Code>200</Code>
</DescribeMetricDataResponse>

```

#### JSON format

```

{
  "Period": "60",
  "Datapoints": [
    {
      "timestamp": 1490152860000,
      "Maximum": 100,
      "userId": "123456789876****",
      "instanceId": "i-abcdefgh12****",
      "Minimum": 93.1,
      "Average": 99.52
    },
    .

```

```
{
  "timestamp":1490152920000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":92.59,
  "Average":99.49
},
{
  "timestamp":1490152980000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":92.86,
  "Average":99.44
},
{
  "timestamp":1490153040000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":91.43,
  "Average":99.36
},
{
  "timestamp":1490153100000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":93.55,
  "Average":99.51
},
{
  "timestamp":1490153160000,
  "Maximum":100,
  "userId":"123456789876****",
  "instanceId":"i-abcdefgh12****",
  "Minimum":93.1,
  "Average":99.52
},
{
```

```
"timestamp":1490153220000,
"Maximum":100,
"userId":"123456789876****",
"instanceId":"i-abcdefgh12****",
"Minimum":92.59,
"Average":99.42
},
{
"timestamp":1490153280000,
"Maximum":100,
"userId":"123456789876****",
"instanceId":"i-abcdefgh12****",
"Minimum":91.18,
"Average":99.34
},
{
"timestamp":1490153340000,
"Maximum":100,
"userId":"123456789876****",
"instanceId":"i-abcdefgh12****",
"Minimum":92.86,
"Average":99.46
},
{
"timestamp":1490153400000,
"Maximum":100,
"userId":"123456789876****",
"instanceId":"i-abcdefgh12****",
"Minimum":91.18,
"Average":99.35
}
],
"RequestId":"6A5F022D-AC7C-460E-94AE-B9E75083D027",
"Success":true,
"Code":"200"
}
```

## Error code

[View error codes](#)

## 16.6. DescribeMetricTop

You can call this operation to query the monitoring data on time series metrics of cloud services sorted by specified fields within a specified time.

### Parameters

- For more information about how to assign values to the parameters such as Project, Metric, Period, and Dimensions for cloud services, you can call the DescribeMetricMetaList operation or see [Preset metric reference](#).
- The period specified by StartTime and EndTime includes the time point specified by StartTime but does not include the time point specified by EndTime. StartTime must be earlier than EndTime.
- Cursor is the parameter for pagination. If this parameter is null, the returned page is the last page. Otherwise, the returned page is not the last page.
- The typical values of the Period parameter are 60 (1 minute), 300 (5 minutes), and 900 (15 minutes). You can set this parameter based on related documents or your specific requirements. For example, if you set the Period parameter to 60, only 1,000 records will be returned, though a total of 1,440 records will be generated. This is because the maximum number of records that can be returned for each query is 1,000. If you set Period to 300, then 288 data records will be returned.

### Debugging

Alibaba Cloud provides [OpenAPI Explorer](#) to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

### Request Parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeMetricTop	The operation that you want to perform. Set this parameter to DescribeMetricTop.
MetricName	String	Yes	cpu_idle	The name of the metric.
Namespace	String	Yes	acs_ecs_dashboard	The namespace of the monitored service, for example, "acs_ecs_dashboard" and "acs_rds_dashboard".
Dimensions	String	No	[{"instanceId": "i-abcdefgh12****"}]	The dimensions of the monitored metrics to filter the records. Each dimension is a key-value pair. The common key-value pair is instanceId: XXXXXX. Dimensions must be organized in a JSON array string, and follow the required order.
EndTime	String	No	2019-01-30 00:10:00	The end time of the records. You can set this parameter to the number of milliseconds that have elapsed since 00:00:00 January 1, 1970, or to a timestamp such as 2015-10-20 00:00:00.

Parameter	Type	Required	Example	Description
Express	String	No	<code>{"groupby": ["userId","instanceId"]}</code>	The expression for real-time computation on the query results, such as <code>{"groupby":["instanceId"]}</code>
Length	String	No	1000	The number of records returned by each query. Default value: 1000.
OrderDesc	String	No	False	The sorting order of records. You must specify either this parameter or the Orderby parameter. Valid values: <ul style="list-style-type: none"> <li>False: sorts values in descending order.</li> <li>True: sorts values in ascending order.</li> </ul>
Orderby	String	No	Average	The field by which the records are sorted. You must specify either this parameter or the OrderDesc parameter.
Period	String	No	60	The time interval of the records in seconds. Typical values are 60, 300, and 900. If this parameter is not specified, the default period of the metric is used to query the raw data. If this parameter is specified, only data of the specified period is queried.
StartTime	String	No	2019-01-30 00:00:00	The start time of the records. You can set this parameter to the number of milliseconds that have elapsed since 00:00:00 January 1, 1970, or to a timestamp such as 2015-10-20 00:00:00.

## Response parameters

Parameter	Type	Example	Description
Code	String	200	The status code. A value of 200 indicates that the call is successful.

Parameter	Type	Example	Description
Datapoints	String	<pre>[{"timestamp":1548777660000,"userId":"123","instanceId":"i-abc","Minimum":9.92,"Average":9.92,"Maximum":9.92}]</pre>	The list of monitoring data in the following format: <code>{ "timestamp": 1490164200000, "Maximum": 100, "userId": "123456789876****", "Minimum": 4.55, "instanceId": "i-bp18abl200xk9599****", "Average": 93.84 }</code>
Message	String	Success	The error message. No message is returned when the status code is 200.
Period	String	60	The time interval of the records in seconds. Typical values are 60, 300, and 900.
RequestId	String	3121AE7D-4AFF-4C25-8F1D-C8226EBB1F42	The ID of the request, which can be used for troubleshooting.

## Examples

### Sample request

```
http(s)://[Endpoint]/? Action=DescribeMetricTop
&MetricName=cpu_idle
&Namespace=acs_ecs_dashboard
&<Common request parameters>
```

### Sample success response

XML format



```
<DescribeMetricTopResponse>
  <Period>60</Period>
  <Datapoints>
    <order>1</order>
    <timestamp>1551687360000</timestamp>
    <userId>12345****</userId>
    <instanceId>i-2zeehst1****</instanceId>
    <Maximum>16.41</Maximum>
    <Minimum>4.66</Minimum>
    <Average>7.74</Average>
    <_count>1</_count>
  </Datapoints>
  <Datapoints>
    <order>2</order>
    <timestamp>1551687360000</timestamp>
    <userId>12345****</userId>
    <instanceId>i-2zefxdy2****</instanceId>
    <Maximum>15.74</Maximum>
    <Minimum>5.03</Minimum>
    <Average>7.14</Average>
    <_count>1</_count>
  </Datapoints>
  <RequestId>1F68A4E8-4488-48E7-9189-3E1F5165E64E</RequestId>
  <Code>200</Code>
</DescribeMetricTopResponse>
```

JSON format

```
{
  "Period": "60",
  "Datapoints": [
    {
      "timestamp": 1551687360000,
      "order": 1,
      "_count": 1,
      "Maximum": 16.41,
      "userId": "12345****",
      "Minimum": 4.66,
      "instanceId": "i-2zeehst1****",
      "Average": 7.74
    },
    {
      "timestamp": 1551687360000,
      "order": 2,
      "_count": 1,
      "Maximum": 15.74,
      "userId": "12345****",
      "Minimum": 5.03,
      "instanceId": "i-2zefxdy2****",
      "Average": 7.14
    }
  ],
  "RequestId": "1F68A4E8-4488-48E7-9189-3E1F5165E64E",
  "Code": "200"
}
```

## Error codes

For more information, see [Error codes](#).

# 16.7. DescribeProjectMeta

You can call this operation to obtain information about the monitored cloud services, including service description, namespace, and tags.

## Debugging

You can use [API Explorer](#) to perform debugging. API Explorer allows you to perform various operations to simplify API usage. For example, you can retrieve APIs, call APIs, and dynamically generate SDK example code.

## Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeProjectMeta	The operation that you want to perform. Set the value to DescribeProjectMeta.
Labels	String	No	<code>[{"groupFlag":true}]</code>	The tags of the metric in the following format: <code>[{"name":"tag name","value":"tag value"}, {"name":"tag name","value":"tag value"}]</code> . The following tag names are supported: product: indicates the cloud service. The value of this tag is a service name. groupFlag: indicates whether the service supports application grouping. The value of this tag is true or false.
PageNumber	Integer	No	1	The number of the page. Default value: 1.
PageSize	Integer	No	30	The number of records on each page. Default value: 30.

## Response parameters

Parameter	Type	Example	Description
Code	String	200	The status code. A value of 200 indicates that the call is successful.
Message	String	success	The error message.
PageNumber	String	1	The number of the page.
PageSize	String	10	The number of records on each page.
RequestId	String	4C2061B2-3B1B-43BF-A4A4-C53426F479C0	The request ID for troubleshooting.
Resources			The details of the metric.
↳Description	String	CDN	The description of the metric.
↳Labels	String	<code>[{"groupFlag":true}]</code>	The tags of the metric.
↳Namespace	String	acs_cdn	The namespace of the monitored service. It is in the acs_service name format.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the call is successful. A value of true indicates that the call is successful. A value of false indicates that the call has failed.
Total	String	12	The total number of returned records.

## Examples

### Sample requests

```
http(s)://[Endpoint]/? Action=DescribeProjectMeta
&<Common request parameters>
```

### Successful response examples

`XML` format

```

<DescribeProjectMetaResponse>
  <PageNumber>1</PageNumber>
  <PageSize>5</PageSize>
  <RequestId>4C2061B2-3B1B-43BF-A4A4-C53426F479C0</RequestId>
  <Success>>true</Success>
  <Code>200</Code>
  <Total>62</Total>
  <Resources>
    <Resource>
      <Description>AnalyticDB</Description>
      <Labels>[{"name":"product","value":"ADS"},{"name":"productCategory","value":"ads"},{"name":"group
Flag","value":"true"}]</Labels>
      <Namespace>acs_ads</Namespace>
    </Resource>
    <Resource>
      <Description>Artificial Intelligence Recommendation</Description>
      <Labels>[{"name":"product","value":"AIRec"},{"name":"productCategory","value":"airec"},{"name":"gro
upFlag","value":"true"}]</Labels>
      <Namespace>acs_airec</Namespace>
    </Resource>
    <Resource>
      <Description>API Gateway</Description>
      <Labels>[{"name":"product","value":"APIGateway"},{"name":"productCategory","value":"apigateway"},
{"name":"groupFlag","value":"true"}]</Labels>
      <Namespace>acs_apigateway_dashboard</Namespace>
    </Resource>
    <Resource>
      <Description>CDN</Description>
      <Labels>[{"name":"product","value":"CDN"},{"name":"productCategory","value":"cdn"},{"name":"group
Flag","value":"true"}]</Labels>
      <Namespace>acs_cdn</Namespace>
    </Resource>
    <Resource>
      <Description>Cloud Enterprise Network</Description>
      <Labels>[{"name":"product","value":"CEN"},{"name":"productCategory","value":"cen,cen_flow,cen_vbr
"},{"name":"groupFlag","value":"true"}]</Labels>
      <Namespace>acs_cen</Namespace>
    </Resource>
  </Resources>
</DescribeProjectMetaResponse>

```

## JSON format

```
{
  "PageNumber":1,
  "PageSize":5,
  "RequestId":"4C2061B2-3B1B-43BF-A4A4-C53426F479C0",
  "Success":true,
  "Code":200,
  "Total":62,
  "Resources":{
    "Resource":[
      {
        "Description":"AnalyticDB",
        "Labels":[{"name":"product","value":"ADS"},{"name":"productCategory","value":"ads"},{"name":"groupFlag","value":"true"}],
        "Namespace":"acs_ads"
      },
      {
        "Description":"Artificial Intelligence Recommendation",
        "Labels":[{"name":"product","value":"AIRec"},{"name":"productCategory","value":"airec"},{"name":"groupFlag","value":"true"}],
        "Namespace":"acs_airec"
      },
      {
        "Description":"API Gateway",
        "Labels":[{"name":"product","value":"APIGateway"},{"name":"productCategory","value":"apigateway"},{"name":"groupFlag","value":"true"}],
        "Namespace":"acs_apigateway_dashboard"
      },
      {
        "Description":"CDN",
        "Labels":[{"name":"product","value":"CDN"},{"name":"productCategory","value":"cdn"},{"name":"groupFlag","value":"true"}],
        "Namespace":"acs_cdn"
      },
      {
        "Description":"Cloud Enterprise Network",
        "Labels":[{"name":"product","value":"CEN"},{"name":"productCategory","value":"cen,cen_flow,cen_vbr"},{"name":"groupFlag","value":"true"}],
        "Namespace":"acs_cen"
      }
    ]
  }
}
```

```
]
}
}
```

## Error code

[View error code](#)