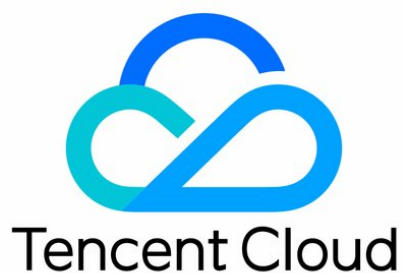


# TencentDB for MongoDB

## API Documentation

## Product Documentation



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# Contents

## API Documentation

- History

- Introduction

- API Category

- Call Method

  - Request Structure

  - Common Params

  - Signature v3

  - Signature

  - Responses

- Instance-Related APIs

  - CreateDBInstance

  - CreateDBInstanceHour

  - TerminateDBInstance

  - UpgradeDBInstance

  - UpgradeDBInstanceHour

- Error Codes

- TencentDB for MongoDB API 2017

  - Call Method

    - Request Structure

      - Request Structure Overview

      - Common Request Parameters

      - API Request Parameters

      - Final Request Format

    - Return Value

      - Successful Response

      - Error Response

      - Error Codes

      - Return Format for Async Task APIs

    - Request Signature

  - Use Cases

  - Region API

    - Query Available Specification

  - Instance API

    - Query Price (Postpaid Plan)

    - Create Instance (Postpaid Plan)

    - Renew Instance (Postpaid Plan)

    - Upgrade Instance (Postpaid Plan)

    - Querying Order Details

    - Query Instance List

    - Set Auto-Renewal

    - Resetting Instance Password

    - Renaming Projects

    - Renaming Instances

## Querying Task Results

# API Documentation

## History

Last updated : 2019-09-09 15:18:00

### The First Release

Release time: 2018-12-20 8:21:26 PM

The following changes are contained in this release:

The existing documents were improved.

APIs added:

- [CreateDBInstance](#)
- [CreateDBInstanceHour](#)
- [TerminateDBInstance](#)
- [UpgradeDBInstance](#)
- [UpgradeDBInstanceHour](#)

# Introduction

Last updated : 2019-09-09 15:18:00

Built on the globally well-accepted MongoDB, TencentDB for MongoDB is a high-performance NoSQL database designed by Tencent Cloud. It features a full compatibility with the MongoDB protocol and offers a wealth of consistent monitoring and management, elastic scalability and automatic disaster recovery capabilities, which is suitable for document-based database scenarios.

# API Category

Last updated : 2019-09-09 15:18:00

## Instance-Related APIs

API Name	Description
<a href="#">CreateDBInstanceHour</a>	Creates a pay-as-you-go database instance
<a href="#">TerminateDBInstance</a>	Terminates a pay-as-you-go database instance
<a href="#">UpgradeDBInstanceHour</a>	Upgrades a pay-as-you-go database instance

# Call Method

## Request Structure

Last updated : 2019-09-09 15:18:00

### 1. Service Address

In this product, your API requests are routed to the nearest server via the domain name `mongodb.tencentcloudapi.com`. You can also access APIs using the domain name for specified region, such as `mongodb.ap-guangzhou.tencentcloudapi.com` for Guangzhou region.

It is recommended to use the domain name for accessing the nearest server. When you call an API, this domain name is automatically resolved to a server in a region **nearest** to the client where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, with the result same as that of using "mongodb.ap-guangzhou.tencentcloudapi.com".

**Note: For business sensitive to latency, it is recommended to specify domain names containing the region.**

The supported domain names are listed as below:

Region	Domain Name
Accessing the nearest server (recommended, and is only for non-Finance regions)	<code>mongodb.tencentcloudapi.com</code>
South China (Guangzhou)	<code>mongodb.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>mongodb.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>mongodb.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>mongodb.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>mongodb.ap-chongqing.tencentcloudapi.com</code>
China (Hong Kong)	<code>mongodb.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>mongodb.ap-singapore.tencentcloudapi.com</code>
Asia Pacific (Bangkok)	<code>mongodb.ap-bangkok.tencentcloudapi.com</code>
Asia Pacific (Mumbai)	<code>mongodb.ap-mumbai.tencentcloudapi.com</code>
Asia Pacific (Seoul)	<code>mongodb.ap-seoul.tencentcloudapi.com</code>
Asia Pacific (Tokyo)	<code>mongodb.ap-tokyo.tencentcloudapi.com</code>
Eastern U.S. (Virginia)	<code>mongodb.na-ashburn.tencentcloudapi.com</code>
Western U.S. (Silicon Valley)	<code>mongodb.na-siliconvalley.tencentcloudapi.com</code>



Region	Domain Name
North America (Toronto)	mongodb.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	mongodb.eu-frankfurt.tencentcloudapi.com
Europe (Moscow)	mongodb.eu-moscow.tencentcloudapi.com

**Note:** **Finance regions** and **non-Finance regions** are isolated from each other. Therefore, when you access the services in a finance region (the common parameter **Region** is finance region), you need to specify a domain name containing the region specified in the **Region** field.

Finance Region	Domain Name
East China (Shanghai Finance)	mongodb.ap-shanghai-fsi.tencentcloudapi.com
South China (Shenzhen Finance)	mongodb.ap-shenzhen-fsi.tencentcloudapi.com

## 2. Communication Protocol

All Tencent Cloud APIs communicate over HTTPS to provide high-security channels.

## 3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

Content-Type supported by POST request:

- application/json (recommended). The TC3-HMAC-SHA256 signature method is required.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature method is required.
- multipart/form-data (supported only in some APIs). The TC3-HMAC-SHA256 signature method is required.

The length of a GET request cannot exceed 32 KB. The length of a POST request using the HmacSHA1 and HmacSHA256 signature methods cannot exceed 1 MB.

## 4. Character Encoding

UTF-8 encoding is always used.

# Common Params

Last updated : 2019-09-09 15:18:01

Common parameters are used for user identification and API authentication. Unless necessary, these parameters will not be discussed in each API document. A request must contain these parameters to be initiated successfully.

## Signature Method v3

To adopt the TC3-HMAC-SHA256 signature method, common parameters must be put into the HTTP Header request header, as shown below:

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the operation to be performed. For example, if you want to call the CVM API "Query Instance List", the Action parameter is DescribeInstances.
X-TC-Region	String	Yes	Identifies the region to which the data you want to work with belongs
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the UNIX timestamp and the API server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version, such as 2017-03-12
Authorization	String	Yes	Header field of HTTP standard identity authentication, such as: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request, SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc963176630326f1024.  - TC3-HMAC-SHA256: signature method. This value is always used. - Credential: signature credentials. AKIDEXAMPLE is SecretId; Date is UTC date, which must be consistent with the UTC date converted by the X-TC-Timestamp common parameter; service is the product name, which must be consistent with the called product domain name, such as CVM; - SignedHeaders: Header information for signature computing. The content-type and host are required; - Signature: signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

If, for example, you want to query the list of CVM instances in the Guangzhou region, the request contains the request URL, request header and request body, as shown below:

Example of an HTTP GET request:

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

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmlPx3EXAMPLE/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
```

```
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

Example of an HTTP POST (application/json) request:

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

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

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

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

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

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

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

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

10
--58731222010402--
```

## Signature Method v1

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

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

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the operation to be performed. For example, if you want to call the CVM API "Query Instance List", the Action parameter is DescribeInstances.
Region	String	Yes	Identifies the region to which the data you want to work with belongs
Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used in conjunction with Timestamp to prevent replay attacks
SecretId	String	Yes	An ID that the user applies for on the <a href="#">Cloud API Key</a> Console for identity authentication. A SecretId is paired with a unique SecretKey, which is used to generate the request Signature.
Signature	String	Yes	Request signature, which is used to verify the validity of the request. It is generated based on input parameters. For more information on how to compute the signature, see the documentation about API authentication.
Version	String	Yes	API version, such as 2017-03-12.
SignatureMethod	String	No	Signature method. Supported methods are HmacSHA256 and HmacSHA1. The HmacSHA256 method is used to verify signatures only when the parameter is specified as HmacSHA256. Otherwise, HmacSHA1 is used.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

If, for example, you want to query the list of CVM instances in the Guangzhou region, the request contains the request URL, request header and request body, as shown below:

Sample of an HTTP GET request:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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

Sample of an HTTP POST request:

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

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

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

## Region List

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

Region	Value
Asia Pacific (Bangkok)	ap-bangkok
North China (Beijing)	ap-beijing
Southwest China (Chengdu)	ap-chengdu
Southwest China (Chongqing)	ap-chongqing
South China (Guangzhou)	ap-guangzhou
China (Hong Kong)	ap-hongkong
Asia Pacific (Mumbai)	ap-mumbai
Asia Pacific (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
East China (Shanghai Finance)	ap-shanghai-fsi
South China (Shenzhen Finance)	ap-shenzhen-fsi
Southeast Asia (Singapore)	ap-singapore
Asia Pacific (Tokyo)	ap-tokyo
Europe (Frankfurt)	eu-frankfurt
Europe (Moscow)	eu-moscow
Eastern U.S. (Virginia)	na-ashburn
Western U.S. (Silicon Valley)	na-siliconvalley
North America (Toronto)	na-toronto

# Signature v3

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Tencent Cloud API authenticates each access request, so each request is required to include the Signature in the common request parameters for user identity authentication. The signature is generated with user's security credentials, which consist of a SecretId and a SecretKey. If you don't have security credentials, apply for the credentials on the [Cloud API Key](#) page. Otherwise, you will not be able to call the cloud APIs.

## Applying for Security Credentials

Before using cloud APIs for the first time, you need to apply for security credentials on the [Cloud API Key](#) page. Security credentials consist of a SecretId and a SecretKey:

- The SecretId: Identity of the API requester.
- The SecretKey: a key that can be used to encrypt the strings to create a signature so that Tencent Cloud server can validate the identity of the requester.
- **The security credentials must be kept confidential to avoid leakage.**

Apply for security credentials by following the steps below:

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

Note: A developer account can have two pairs of SecretId/SecretKey at most.

## TC3-HMAC-SHA256 Signature Method

Note: For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats, Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information.

The following shows how to compute signature by using CVM to query the instance list in Guangzhou zone. Only two parameters of "Query Instance List": Limit and Offset are used via the GET method.

For example, your SecretId and SecretKey are AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE and Gu5t9xGARNpq86cd98joQYCN3EXAMPLE.

### 1. Splice specification request string

Splice specification request string (CanonicalRequest) in the following format:

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

```
SignedHeaders + '\n' +
HashedRequestPayload
```

- HTTPRequestMethod: HTTP request method (GET and POST). GET is used in this example.
- CanonicalURI: URI parameter. Slash ("/") is used for API 3.0.
- CanonicalQueryString: query string for HTTP request URL, which is always an empty string for the POST request and a string after the question mark ("?") in URL for the GET request. Limit=10&Offset=0 is used in this example. Note: CanonicalQueryString must be URL encoded.
- CanonicalHeaders: header information for signature, including at least the host and content-type headers. Custom header for signature can also be added to improve the uniqueness and security of the request. Splicing rules: 1) The key and value headers are converted to lowercase, and the spaces at the start and end are removed. Splice in the format of key:value\n. 2) Multiple headers are spliced in the lexicographic order of the header key (lowercase). content-type:application/x-www-form-urlencoded\nhost:cvm.tencentcloudapi.com\n is used in this example.
- SignedHeaders: header information for signature. It specifies the headers for signature in the request, which correspond to the header content contained in CanonicalHeaders. The content-type and host headers are required. Splicing rules: 1) The header key is converted to lowercase. 2) Multiple header keys are spliced in the lexicographic order of the header key (lowercase) and separated by semicolons(";"). content-type;host is used in this example.
- HashedRequestPayload: hash value of the request body, which is computed by Lowercase(HexEncode(Hash.SHA256(RequestPayload))). After computing the SHA256 hash on the entire body payload of the HTTP request, it is encoded in hexadecimal format, and then the encoded string is converted into lowercase. Note: For GET requests, RequestPayload must be an empty string. For POST requests, RequestPayload is the body payload of the HTTP request.

Based on the above rules, the specification request string obtained in the example is as follows (For clarity, "\n" is removed by starting a new line.):

```
GET
/
Limit=10&Offset=0
content-type:application/x-www-form-urlencoded
host:cvm.api.tencentyun.com

content-type;host
e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855
```

## 2. Splice string to be signed

Splice string to be signed in the following formats:

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

- Algorithm: signature algorithm, which is always TC3-HMAC-SHA256;
- RequestTimestamp: request timestamp, which is the X-TC-Timestamp value of the request header, such as 1539084154 in the above example;
- CredentialScope: credential scope in the format of Date/service/tc3\_request, including date, requested service and terminated string (tc3\_request). Date is UTC date, which must be consistent with the UTC date converted by the X-TC-Timestamp common

parameter; service is the product name, which must be consistent with the called product domain name, such as CVM. 2018-10-09/cvm/tc3\_request is used in the above example.

- HashedCanonicalRequest: hash value of the specification request string spliced in the above step. The computing method is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))).

Based on the above rules, the string to be signed in the example is as follows (For clarity, "\n" is removed by starting a new line.):

```
TC3-HMAC-SHA256
1539084154
2018-10-09/cvm/tc3_request
91c9c192c14460df6c1ffc69e34e6c5e90708de2a6d282cccf957dbf1aa7f3a7
```

### 3. Compute signature

1) Compute the derived signature key. Its pseudo code is as follows:

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3EXAMPLE"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

- SecretKey: Original SecretKey;
- Date: Value in the Date field in Credential, such as 2018-10-09 in the above example;
- Service: Value in the Service field in Credential, such as CVM in the above example;

2) Compute the signature. Its pseudo code is as follows:

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

- SecretSigning: Derived signature key obtained by computing;
- StringToSign: String to be signed in Step 2;

### 4. Splice Authorization

Splice Authorization in the following formats:

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

- Algorithm: signature method, which is always TC3-HMAC-SHA256;
- SecretId: SecretId in the key pair;
- CredentialScope: credential scope. See above for more information;
- SignedHeaders: header information for signature. See above for more information;
- Signature: signature value

Based on the above rules, the value in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c47a
```



The complete calling is as follows:

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

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

## 5. Signature demonstration

### Java

```
import java.io.BufferedReader;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.net.URL;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Map;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.net.ssl.HttpURLConnection;
import javax.xml.bind.DataMapper;

import org.apache.commons.codec.digest.DigestUtils;

public class TencentCloudAPITC3Demo {
    private final static String CHARSET = "UTF-8";
    private final static String ENDPOINT = "cvm.tencentcloudapi.com";
    private final static String PATH = "/";
    private final static String SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE";
    private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3EXAMPLE";
    private final static String CT_X_WWW_FORM_URLENCODED = "application/x-www-form-urlencoded";
    private final static String CT_JSON = "application/json";
    private final static String CT_FORM_DATA = "multipart/form-data";

    public static byte[] sign256(byte[] key, String msg) throws Exception {
        Mac mac = Mac.getInstance("HmacSHA256");
        SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
        mac.init(secretKeySpec);
        return mac.doFinal(msg.getBytes(CHARSET));
    }

    public static void main(String[] args) throws Exception {
        String service = "cvm";
        String host = "cvm.tencentcloudapi.com";
        String region = "ap-guangzhou";
```

```

String action = "DescribeInstances";
String version = "2017-03-12";
String algorithm = "TC3-HMAC-SHA256";
String timestamp = "1539084154";
//String timeStamp = String.valueOf(System.currentTimeMillis() / 1000);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
//Mind the time zone. Otherwise an error may occur.
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

// ***** Step 1: Splice the specification request string*****
String httpRequestMethod = "GET";
String canonicalUri = "/";
String canonicalQueryString = "Limit=10&Offset=0";
String canonicalHeaders = "content-type:application/x-www-form-urlencoded\n" + "host:" + host + "\n";
String signedHeaders = "content-type;host";
String hashedRequestPayload = DigestUtils.sha256Hex("");
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ***** Step 2: Splice the string to be signed*****
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = DigestUtils.sha256Hex(canonicalRequest.getBytes(CHARSET));
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ***** Step 3: Compute signature*****
byte[] secretDate = sign256(("TC3" + SECRET_KEY).getBytes(CHARSET), date);
byte[] secretService = sign256(secretDate, service);
byte[] secretSigning = sign256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(sign256(secretSigning, stringToSign)).toLowerCase();
System.out.println(signature);

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

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

```

## Python

```

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

```

```

# Key parameter
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3EXAMPLE"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
timestamp = 1539084154
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 10, "Offset": 0}

# ***** Step 1: Splice the specification request string *****
http_request_method = "GET"
canonical_uri = "/"
canonical_querystring = "Limit=10&Offset=0"
ct = "x-www-form-urlencoded"
payload = ""
if http_request_method == "POST":
    canonical_querystring = ""
    ct = "json"
    payload = json.dumps(params)
canonical_headers = "content-type:application/%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
    canonical_uri + "\n" +
    canonical_querystring + "\n" +
    canonical_headers + "\n" +
    signed_headers + "\n" +
    hashed_request_payload)
print(canonical_request)

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

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

```

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

# Common parameters are added to the request string.
headers = {
"Authorization": authorization,
"Host": host,
"Content-Type": "application/%s" % ct,
"X-TC-Action": action,
"X-TC-Timestamp": str(timestamp),
"X-TC-Version": version,
"X-TC-Region": region,
}
```

## Signature Failure

The following signature error codes may be returned depending on the actual situation.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired
AuthFailure.SecretIdNotFound	Key does not exist
AuthFailure.SignatureFailure	Invalid signature
AuthFailure.TokenFailure	Invalid token
AuthFailure.InvalidSecretId	Invalid key (it is not a cloud API key)

# Signature

Last updated : 2019-09-09 15:18:01

Tencent Cloud API authenticates each access request, so each request is required to include the Signature in the common request parameters for user identity authentication. The signature is generated with user's security credentials, which consist of a SecretId and a SecretKey. If you don't have security credentials, apply for the credentials on the [Cloud API Key](#) page. Otherwise, you will not be able to call the cloud APIs.

## 1. Apply for Security Credentials

Before using cloud APIs for the first time, you need to apply for security credentials on the [Cloud API Key](#) page. Security credentials consist of a SecretId and a SecretKey:

- The SecretId: Identify of the API requester.
- The SecretKey: A key that can be used to encrypt the strings to create a signature so that Tencent Cloud server can validate the identity of the requester.
- **The security credentials must be kept confidential to avoid leakage.**

Apply for security credentials by following the steps below:

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

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

## 2. Generate Signature String

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

Suppose that you have the following SecretId and SecretKey:

- SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE
- SecretKey: Gu5t9xGARNpq86cd98joQYCN3EXAMPLE

**Note: This is only for demonstration purpose. Make sure you proceed with your actual SecretId and SecretKey.**

For example, if you call the API "View CVM Instance List" (DescribeInstances), the possible request parameters are as follows:

Parameter Name	Description	Parameter Value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE
Timestamp	Current timestamp	1465185768
Nonce	A random positive integer	11886
Region	The region where the instance resides	ap-guangzhou

Parameter Name	Description	Parameter Value
InstanceIds.0	ID of the instance to be queried	ins-09dx96dg
Offset	Offset value	0
Limit	Maximum number of output results	20
Version	API version	2017-03-12

## 2.1. Sort parameters

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

```
{
  'Action': 'DescribeInstances',
  'InstanceIds.0': 'ins-09dx96dg',
  'Limit': 20,
  'Nonce': 11886,
  'Offset': 0,
  'Region': 'ap-guangzhou',
  'SecretId': 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE',
  'Timestamp': 1465185768,
  'Version': '2017-03-12',
}
```

Any other programming language can be used to sort these parameters as long as the same result is produced.

## 2.2. Generate a request string

This step is to generate the request string. Format the request parameters sorted in the previous step as "parameter name"="parameter value". For example, if the parameter value of "Action" is "DescribeInstances", the resulting format is Action=DescribeInstances. **Note: "Parameter value" is the original value rather than the URL encoded value.**

Then, join the formatted parameters together with "&" to generate the final request string:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE&Timestamp=1465185768&Version=2017-03-12
```

## 2.3. Generate the original signature string

This step is to generate the original signature string. The original signature string is composed of the following parameters:

1. Request method: The POST and GET methods are supported. In this case, a GET request is used. Please note that the methods must be in upper-case.
2. Request host: The request domain name for the API "View Instance List" (DescribeInstances) is `cvm.tencentcloudapi.com`. The actual request domain name varies with the module to which the API belongs. For more information, see the relevant API description.
3. Request path: The request path for the current version of cloud API is always `/`.
4. Request string: The request string generated in the previous step.

The original signature string is constructed as follows: Request Method + Request Host + Request Path + ? + Request String

The resulting string is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE&Timestamp=1465185768&Version=2017-03-12
```

## 2.4. Generate a signature string

This step is to generate a signature string. Sign the **original signature string** obtained in the previous step using HMAC-SHA1 algorithm, and then encode the signature string using Base64 to obtain the final signature string.

For example, the code is as follows if written in PHP:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3EXAMPLE';


```

The resulting signature string is as follows:

```
EliP9YW3pW28FpsEdkXt/+WcGel=
```

When you're using any other programming language, you can use the original signature string in the above example for signature verification, as long as the resulting signature string is same as the one in the example.

## 3. Encode the Signature String

The generated signature string cannot be directly used as the request parameter, and needs to be URL encoded.

For example, the signature string "EliP9YW3pW28FpsEdkXt/+WcGel=" generated in the previous step is converted to the final signature string request parameter (Signature): EliP9YW3pW28FpsEdkXt/+WcGel=, which will be used to generate the final request URL.

**Note: If GET method is used, or if POST method is used and Content-Type is application/x-www-form-urlencoded, all request parameters need to be URL encoded. Encoding is not required for parameter keys and equal sign ("="). Non-ASCII characters should be encoded with UTF-8 before they can be URL encoded.**

**Note: For some programming languages, their HTTP libraries can encode URLs automatically for all parameters. In this case, URL encoding is not required for the signature string, because repeated URL encoding will cause signature failure.**

**Note: Other parameters need to be encoded using RFC 3986. For special characters such as Chinese characters, %XY is used to do percentage encoding, in which "X" and "Y" are hexadecimal characters (0-9 and A-F). Lower cases will cause an error.**

## 4. Signature Failure

The following signature error codes may be returned depending on the actual situation.

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

Error Code	Description
AuthFailure.SignatureExpire	Signature expired
AuthFailure.SecretIdNotFound	Key does not exist
AuthFailure.SignatureFailure	Invalid signature
AuthFailure.TokenFailure	Invalid token
AuthFailure.InvalidSecretId	Invalid key (it is not a cloud API key)

## 5. Signature Demonstration

When calling the API 3.0, you're recommended to use the supplied Tencent Cloud SDK 3.0, which encapsulates the signature process to allow you to focus on the APIs provided by the product during development. For more information, see [SDK Center](#). The following programming languages are supported:

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

The following examples show how the above signature process is implemented in various programming languages. The request domain name, APIs and parameter values to be used are same as the ones in the above signature process. The code below is only for demonstration purpose. Please use the SDK in your actual development.

The resulting URL may be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WfkmLPx3EXAMPLE&Signature=Elip9YW3pW28FpsEdkXt/+WcGeI=&Timestamp=1465185768&Version=2017-03-12`

Note: Since the key used in the examples is fictitious and the timestamp is not the current system time, the authentication error "The signature expired" will be returned when you open this URL in a browser or call it with a command such as curl. To allow the URL to be returned normally, replace the SecretId and SecretKey in the examples with the real keys, and use the current system timestamp as the Timestamp.

Note: In the following examples, the order in which the parameters are arranged in the resulting URL may vary with different programming languages, even with each execution of the code in the same programming language. But this does not affect the correctness of the URL, provided that all parameters are included and the resulting signature is correct.

Note: The following code only applies to API 3.0 and cannot be directly used in other signature processes. Even in the earlier versions of API, the differences in specifics between versions may lead to signature computing error. For more information, see the relevant documentation.

### Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
```



```
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

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

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

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // The parameters are required to be sorted in lexicographic order during the generation of signature, and TreeMap is used here to implement the sorting.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // There is no requirement for the order of parameters in the actual request URL.
        for (String k : params.keySet()) {
            // The request string should be URL-encoded. Since key is comprised of letters only, its value must be URL-encoded.
            url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
        }
        return url.toString().substring(0, url.length() - 1);
    }

    public static void main(String[] args) throws Exception {
        TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap is used for auto-sorting.
        // A random number should be used in the actual request, for example: params.put("Nonce", new Random().nextInt(java.lang.Integer.MAX_VALUE));
        params.put("Nonce", 11886); // Common parameters
        // The current system time should be used in the actual request, for example: params.put("Timestamp", System.currentTimeMillis() / 1000);
        params.put("Timestamp", 1465185768); // Common parameters
        params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WfkmLPx3EXAMPLE"); // Common parameters
        params.put("Action", "DescribeInstances"); // Common parameters
        params.put("Version", "2017-03-12"); // Common parameters
        params.put("Region", "ap-guangzhou"); // Common parameters
        params.put("Limit", 20); // Service parameter
        params.put("Offset", 0); // Service parameter
        params.put("InstanceId.0", "ins-09dx96dg"); // Service parameter
        params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3EXAMPLE", "HmacSHA1")); // Common parameters
        System.out.println(getUrl(params));
    }
}
```

## Python

Note: Before you can run the code in a Python 2 environment, install the requests dependency package `pip install requests`.

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

import requests

secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3EXAMPLE"

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

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

if __name__ == '__main__':
    endpoint = "cvm.tencentcloudapi.com"
    data = {
        'Action': 'DescribeInstances',
        'InstanceId.0': 'ins-09dx96dg',
        'Limit': 20,
        'Nonce': 11886,
        'Offset': 0,
        'Region': 'ap-guangzhou',
        'SecretId': secret_id,
        'Timestamp': 1465185768, # int(time.time())
        'Version': '2017-03-12'
    }
    s = get_string_to_sign("GET", endpoint, data)
    data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
    print(data["Signature"])
    # The API will be called actually, and a fee may be incurred if the call is successful.
    # resp = requests.get("https://" + endpoint, params=data)
    # print(resp.url)
```

# Responses

Last updated : 2019-09-09 15:18:01

## Successful Response

Take the CVM API "View Instance Status List" (DescribeInstancesStatus) (version 2017-03-12) as an example. If the call of this API is successful, the response is as follows:

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

- Response and its RequestId are common fields and are always returned as long as the API request is processed, regardless of whether it is successful.
- RequestId is used to uniquely identify an API request. If an API exception occurs, you can contact us and provide this ID to solve the problem.
- Any fields other than the common fields are API-specific fields. For more information on such fields, see the relevant API documentation. In this example, TotalCount and InstanceStatusSet are specific to the API DescribeInstancesStatus. Since the user who initiated the request does not have a CVM instance yet, 0 is returned for TotalCount and InstanceStatusSet is left empty.

## Error Response

If the request fails, the response is as follows:

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

- In case of a failed request, Error, Code and Message fields are returned.
- Code indicates the error code. When an error occurs with the request, you can use the error code to find the cause and solution for the error in the list of common error codes or API-specific error codes.
- Message indicates the cause for the error. It may be updated from time to time.
- RequestId is used to uniquely identify an API request. If an API exception occurs, you can contact us and provide this ID to solve the problem.

## Common Error Codes

The Error field in the response indicates a failed API request, and the Code field indicates the error code. The following common error codes apply to all requests.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (it is not a cloud API key)
AuthFailure.MFAFailure	MFA failure
AuthFailure.SecretIdNotFound	Key does not exist.
AuthFailure.SignatureExpire	Signature expired
AuthFailure.SignatureFailure	Invalid signature
AuthFailure.TokenFailure	Invalid token
AuthFailure.UnauthorizedOperation	No CAM authorization
DryRunOperation	DryRun operation. It means that the request is successful, except that the DryRun parameter is passed additionally.
FailedOperation	Operation failed
InternalError	Internal error.
InvalidAction	API does not exist.
InvalidParameter	Incorrect parameter
InvalidParameterValue	Invalid parameter value
LimitExceeded	Quota limit is exceeded.
MissingParameter	A parameter is missing.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The request rate limit is exceeded.
ResourceInUse	Resource is occupied.
ResourceInsufficient	Insufficient resource
ResourceNotFound	Resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation
UnknownParameter	Unknown parameter
UnsupportedOperation	Unsupported operation
UnsupportedProtocol	Unsupported HTTP(S) request protocol. Only GET and POST requests are supported.
UnsupportedRegion	Unsupported region

# Instance-Related APIs

## CreateDBInstance

Last updated : 2019-09-09 15:18:02

### 1. API Description

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

This API (CreateDBInstance) is used to create a monthly subscription MongoDB database instance.

Default request rate limit: 20/sec.

Note: This API supports Finance regions. Finance and non-Finance regions are isolated from each other. Therefore, if the common parameter Region is a Finance region (such as ap-shanghai-fsi), you need to specify a domain name containing the Finance region specified in the Region field, for example: mongodb.ap-shanghai-fsi.tencentcloudapi.com.

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: CreateDBInstance.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-08
Region	Yes	String	Common parameter. For more information, see the <a href="#">list of regions</a> supported by the product.
SecondaryNum	Yes	Integer	Number of slave nodes per replica set
Memory	Yes	Integer	Memory capacity of the instance (in GB)
Volume	Yes	Integer	Disk capacity of the instance (in GB)
MongoVersion	Yes	String	Version number. Only MONGO_3_WT is supported.
MachineCode	Yes	String	Server type. GIO: High IO; TGIO: High IO (10 GB).
GoodsNum	Yes	Integer	Number of instances. The default value is 1, minimum is 1, and maximum is 10.
Zone	Yes	String	Name of the region to which the instance belongs, e.g. ap-guangzhou-2.
TimeSpan	Yes	Integer	Purchased usage period (in month)
Password	Yes	String	Instance password
ProjectId	No	Integer	Project ID. If this is left empty, default project is used.

Parameter Name	Required	Type	Description
SecurityGroup.N	No	Array of String	Security group parameters
UniqVpcId	No	String	VPC ID. If it is left empty, the basic network is used by default.
UniqSubnetId	No	String	Subnet ID under VPC. If VpcId is set, SubnetId is required.

### 3. Output Parameters

Parameter Name	Type	Description
DealId	String	Order ID
RequestId	String	The unique ID of a request, which is required for each troubleshooting case.

### 4. Example

#### Example 1 Create a monthly subscription database instance

You need to create a monthly subscription database instance using an API.

##### Input example

```
https://mongodb.tencentcloudapi.com/?Action=CreateDBInstance
&Memory=4
&Volume=250
&GoodsNum=1
&Zone=ap-guangzhou-2
&UniqVpcId=vpc-0akbol5v
&UniqSubnetId=subnet-fyrtjbqw
&ProjectId=0
&MongoVersion=MONGO_3_WT
&MachineCode=TGIO
&SecondaryNum=2
&TimeSpan=1
&Password=pwd123456
&<Common request parameters>
```

##### Output example

```
{
  "Response": {
    "RequestId": "be8f4a30-ea2e-4623-8b6b-0ccce04cd9f7",
    "DealId": "19297475"
  }
}
```

## 5. Resources for Developers

### API Explorer

This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using cloud APIs.

- [API 3.0 Explorer](#)

### SDK

Cloud API 3.0 comes with the software development kit (SDK) that supports multiple programming languages and makes it easier to call the APIs.

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

### Command line tools

- [Tencent Cloud CLI 3.0](#)

## 6. Error Codes

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

Error Code	Description
InvalidParameter	Invalid parameter

# CreateDBInstanceHour

Last updated : 2019-09-09 15:18:02

## 1. API Description

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

This API (CreateDBInstanceHour) is used to create pay-as-you-go MongoDB database instances (including master instances, disaster recovery instances and read-only instances) by passing such information as instance specification, instance type, MongoDB version, purchased usage period and quantity.

Default request rate limit: 20/sec.

Note: This API supports Finance regions. Finance and non-Finance regions are isolated from each other. Therefore, if the common parameter Region is a Finance region (such as ap-shanghai-fsi), you need to specify a domain name containing the Finance region specified in the Region field, for example: mongodb.ap-shanghai-fsi.tencentcloudapi.com.

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: CreateDBInstanceHour.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-08
Region	Yes	String	Common parameter. For more information, see the <a href="#">list of regions</a> supported by the product.
Memory	Yes	Integer	Memory capacity of the instance (in GB)
Volume	Yes	Integer	Disk capacity of the instance (in GB)
ReplicateSetNum	Yes	Integer	Number of replica sets. The value of 1 refers to a single replica set instance. A value greater than 1 refers to a sharding cluster instance. The value shall not be greater than 10.
SecondaryNum	Yes	Integer	Number of slave nodes per replica set. Only 2 is supported now.
EngineVersion	Yes	String	MongoDB engine version. Supported values include: MONGO_2, MONGO_3_MMAP, MONGO_3_WT, MONGO_3_ROCKS, and MONGO_36_WT.
Machine	Yes	String	Instance type. GIO: High IO; TGIO: High IO (10 GB).
GoodsNum	Yes	Integer	Number of instances. The default value is 1, minimum is 1, and maximum is 10.
Zone	Yes	String	Availability zone information, such as ap-guangzhou-2.
InstanceRole	Yes	String	Instance role. Supported values include: MASTER - Master instance; DR - Disaster recovery instance; RO - Read-only instance.



Parameter Name	Required	Type	Description
InstanceType	Yes	String	Instance type. REPLSET - Replica set; SHARD - Sharding cluster.
Encrypt	No	Integer	Indicates whether to encrypt the data. Only when the engine version is MONGO_3_ROCKS can you choose to encrypt the data.
VpcId	No	String	VPC ID. If it is left empty, the basic network is used by default.
SubnetId	No	String	Subnet ID under VPC. If VpcId is set, SubnetId is required.
ProjectId	No	Integer	Project ID. If this is left empty, default project is used.
SecurityGroup.N	No	Array of String	Security group parameters

### 3. Output Parameters

Parameter Name	Type	Description
DealId	String	Order ID
RequestId	String	The unique ID of a request, which is required for each troubleshooting case.

### 4. Example

#### Example 1 Create a database instance (pay-as-you-go)

You need to create a pay-as-you-go database instance using an API.

##### Input example

```
https://mongodb.tencentcloudapi.com/?Action=CreateDBInstanceHour
&Memory=4
&Volume=250
&ReplicateSetNum=1
&SecondaryNum=2
&EngineVersion=MONGO_3_WT
&Machine=TGIO
&GoodsNum=1
&Zone=ap-guangzhou-3
&InstanceRole=MASTER
&InstanceType=REPLSET
&<Common request parameters>
```

##### Output example

```
{
  "Response": {
    "RequestId": "d3aecf52-5abf-49e4-bf79-1a6c47a406d4",
    "DealId": "28920"
  }
}
```

```
}  
}
```

## 5. Resources for Developers

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

### Command line tools

- [Tencent Cloud CLI 3.0](#)

## 6. Error Codes

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

# TerminateDBInstance

Last updated : 2019-09-09 15:18:01

## 1. API Description

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

This API (TerminateDBInstance) is used to terminate a pay-as-you-go MongoDB database instance.

Default request rate limit: 20/sec.

Note: This API supports Finance regions. Finance and non-Finance regions are isolated from each other. Therefore, if the common parameter Region is a Finance region (such as ap-shanghai-fsi), you need to specify a domain name containing the Finance region specified in the Region field, for example: mongodb.ap-shanghai-fsi.tencentcloudapi.com.

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: TerminateDBInstance.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-08
Region	Yes	String	Common parameter. For more information, see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	Instance ID, such as: cmgo-p8vnipr5.

## 3. Output Parameters

Parameter Name	Type	Description
AsyncRequestId	String	Order ID, indicating instance termination is successful
RequestId	String	The unique ID of a request, which is required for each troubleshooting case.

## 4. Example

### Example 1 Terminate a pay-as-you-go database instance

#### Input example

```
https://mongodb.tencentcloudapi.com/?Action=TerminateDBInstance
&InstanceId=cmgo-f555zzzz
```

&<Common request parameters>

### Output example

```
{
  "Response":{
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
    "AsyncRequestId":"28920"
  }
}
```

## 5. Resources for Developers

### API Explorer

This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using cloud APIs.

- [API 3.0 Explorer](#)

### SDK

Cloud API 3.0 comes with the software development kit (SDK) that supports multiple programming languages and makes it easier to call the APIs.

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

### Command line tools

- [Tencent Cloud CLI 3.0](#)

## 6. Error Codes

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

Error Code	Description
InternalServerError.AsyncRequestError	An error occurred while querying an async task.
InvalidParameter	Invalid parameter

# UpgradeDBInstance

Last updated : 2019-09-09 15:18:01

## 1. API Description

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

This API (UpgradeDBInstance) is used to upgrade a monthly subscription MongoDB database instance to expand memory, storage and Oplog capacity.

Default request rate limit: 20/sec.

Note: This API supports Finance regions. Finance and non-Finance regions are isolated from each other. Therefore, if the common parameter Region is a Finance region (such as ap-shanghai-fsi), you need to specify a domain name containing the Finance region specified in the Region field, for example: mongodb.ap-shanghai-fsi.tencentcloudapi.com.

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: UpgradeDBInstance.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-08
Region	Yes	String	Common parameter. For more information, see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	Instance ID, such as cmgo-p8vnipr5. It is identical to the instance ID displayed in the database console page.
Memory	Yes	Integer	The memory capacity to which the instance will be upgraded (in GB).
Volume	Yes	Integer	The disk capacity to which the instance will be upgraded (in GB).
OplogSize	No	Integer	The Oplog capacity to which the instance will be upgraded (in GB). It is 10% of the disk capacity by default. The minimum value allowed is 10% of disk capacity, and the maximum is 90% of disk capacity.

## 3. Output Parameters

Parameter Name	Type	Description
DealId	String	Order ID
RequestId	String	The unique ID of a request, which is required for each troubleshooting case.

## 4. Example

### Example 1 Upgrade a pay-as-you-go database instance

You need to upgrade a monthly subscription database instance using an API.

#### Input example

```
https://mongodb.tencentcloudapi.com/?Action=UpgradeDBInstance
&Memory=4
&Volume=250
&InstanceId=cmgo-f555zzzz
&OplogSize=26
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "be8f4a30-ea2e-4623-8b6b-0ccce04cd9f7",
    "DealId": "19297475"
  }
}
```

## 5. Resources for Developers

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

### Command line tools

- [Tencent Cloud CLI 3.0](#)

## 6. Error Codes

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

Error Code	Description
InvalidParameter	Invalid parameter

# UpgradeDBInstanceHour

Last updated : 2019-09-09 15:18:01

## 1. API Description

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

This API (UpgradeDBInstanceHour) is used to upgrade a pay-as-you-go MongoDB database instance to expand memory, storage and Oplog capacity.

Default request rate limit: 20/sec.

Note: This API supports Finance regions. Finance and non-Finance regions are isolated from each other. Therefore, if the common parameter Region is a Finance region (such as ap-shanghai-fsi), you need to specify a domain name containing the Finance region specified in the Region field, for example: mongodb.ap-shanghai-fsi.tencentcloudapi.com.

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: UpgradeDBInstanceHour.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-08
Region	Yes	String	Common parameter. For more information, see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	Instance ID, such as: cmgo-p8vniqr5.
Memory	Yes	Integer	The memory capacity to which the instance will be upgraded (in GB).
Volume	Yes	Integer	The disk capacity to which the instance will be upgraded (in GB).
OplogSize	No	Integer	The Oplog capacity to which the instance will be upgraded (in GB). It is 10% of the disk capacity by default. The minimum value allowed is 10% of disk capacity, and the maximum is 90% of disk capacity.

## 3. Output Parameters

Parameter Name	Type	Description
DealId	String	Order ID
RequestId	String	The unique ID of a request, which is required for each troubleshooting case.



## 4. Example

### Example 1 Upgrade a pay-as-you-go database instance

You need to upgrade a pay-as-you-go database instance using an API.

#### Input example

```
https://mongodb.tencentcloudapi.com/?Action=UpgradeDBInstanceHour
&Memory=4
&Volume=250
&Instanceld=cmgo-f555zzz
&OplogSize=25
&<Common request parameters>
```

#### Output example

```
{
  "Response":{
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
    "DealId": "20171201160000002670226599824833"
  }
}
```

## 5. Resources for Developers

### API Explorer

This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using cloud APIs.

- [API 3.0 Explorer](#)

### SDK

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

### Command line tools

- [Tencent Cloud CLI 3.0](#)

## 6. Error Codes

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

Error Code	Description
InvalidParameter	Invalid parameter

# Error Codes

Last updated : 2019-09-09 15:18:00

## Feature Description

If the Error field exists in the returned result, it means the API call failed. For example:

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

Code in the Error field indicates the error code, and Message indicates the error message.

## Error Codes

### Common Error Codes

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (it is not a cloud API key)
AuthFailure.MFAFailure	MFA failure
AuthFailure.SecretIdNotFound	Key does not exist. Check whether the key has been deleted or disabled in the console, and if not, check whether the key is correctly entered. Note that there shall be no space before or after the key.
AuthFailure.SignatureExpire	Signature expired. The difference between the timestamp and the server time cannot exceed 5 minutes. Check whether the local time is synced with the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature computing error. Check the signature computing process by referring to the documentation about API authentication in the calling method.
AuthFailure.TokenFailure	Invalid token
AuthFailure.UnauthorizedOperation	No CAM authorization
DryRunOperation	DryRun operation. It means that the request is successful, except that the DryRun parameter is passed additionally.
FailedOperation	Operation failed
InternalError	Internal error
InvalidAction	API does not exist
InvalidParameter	Incorrect parameter

Error Code	Description
InvalidParameterValue	Invalid parameter value
LimitExceeded	Quota limit is exceeded
MissingParameter	A parameter is missing
NoSuchVersion	The API version does not exist
RequestLimitExceeded	The request rate limit is exceeded
ResourceInUse	Resource is occupied
ResourceInsufficient	Insufficient resource
ResourceNotFound	Resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation
UnknownParameter	Unknown parameter
UnsupportedOperation	Unsupported operation
UnsupportedProtocol	Unsupported HTTP(S) request protocol. Only GET and POST requests are supported.
UnsupportedRegion	Unsupported region

### Service Error Codes

Error Code	Description
InternalError.AsyncRequestError	An error occurred while querying an async task.
InvalidParameter	Invalid parameter

# TencentDB for MongoDB API 2017

## Call Method

## Request Structure

## Request Structure Overview

Last updated : 2019-09-18 15:20:51

You can call a TencentCloud API by sending a request to the API server address that contains the request parameters specified in the API description. The structure of a TencentCloud API request consists of service address, communication protocol, request method, request parameters, and character encoding, as detailed below:

### Service Address

The service access address of TencentCloud API depends on the specific module. For more information, see the descriptions of each API.

### Communication Protocol

Most of TencentCloud APIs communicate via HTTPS, providing highly secure communication tunnels.

### Request Method

TencentCloud API supports both POST and GET requests.

1. POST and GET requests cannot be used together. If GET is used, the parameters are taken from the query string. If POST is used, the parameters are taken from the request body, and the parameters in the query string are ignored. The parameter format rules of the two request methods are identical. GET requests are generally used. If the parameter string is too long, POST is recommended.
2. If the GET method is used, all request parameters need to be URL-encoded. This is not required if the POST method is used.
3. The maximum length of GET requests varies by browser and server settings. For example, the limit is 2 KB in IE and 8 KB in Firefox. For long API requests with a lot of parameters, we recommend using the POST method so as to avoid request failure due to overlong string.
4. For POST requests, the input parameters should be in the form of `x-www-form-urlencoded`, because TencentCloud API acquires the request parameters from `$_POST`.

### Request Parameters

Two types of parameters are required for each Tencent Cloud API request: common request parameters and API request parameters. Common request parameters are required for every API (see [Common Request Parameters](#), while API request

parameters are specific to each API (see "Request Parameters" in each API document).

## Character Encoding

Both the request and returned result of TencentCloud API are encoded using the UTF-8 character set.

# Common Request Parameters

Last updated : 2019-09-19 16:48:16

This is a legacy API and may be deprecated in the future. It is currently not displayed on the left sidebar. We recommend using [CVM API v3.0](#), which is more standardized and has much lower access latency.

A complete TencentCloud API request requires two types of request parameters: common request parameters and API request parameters. This document describes the six common request parameters required by TencentCloud API requests. For detailed descriptions of API request parameters, see [API Request Parameters](#).

Common request parameters are required in every API. When using TencentCloud APIs to send requests, make sure that the common request parameters are passed in; otherwise, the requests will fail. Common request parameters should always begin with a capital letter so that they can be differentiated from API request parameters.

The following lists the specific common request parameters:

**Note:**

This document illustrates APIs specific to Tencent Cloud CVMs. For APIs specific to other Tencent Cloud products, see the relevant documents.

Parameter Name	Description	Type	Required
Action	Name of an action-specific API. For example, when a Tencent Cloud CVM user calls the API <a href="#">Querying Instance List</a> , the Action parameter is <code>DescribeInstances</code> .	String	Yes
Region	The <code>Region</code> parameter, which is used to identify the region of the instance you want to work with. For more information, see <a href="#">Regions and Availability Zones</a> or call the <a href="#">Query Region List API</a> . <b>Note:</b> 1. Unless otherwise specified in the API document, this parameter is required. 2. Certain regions are currently in beta and only available to whitelisted users.	String	No
Timestamp	The current UNIX timestamp that records the time when the API request is initiated.	UInt	Yes
Nonce	The user-defined random positive integer, which is used in conjunction with <code>Timestamp</code> to prevent replay attacks.	UInt	Yes
SecretId	An ID that the user applies for on the <a href="#">TencentCloud API Key</a> for identity authentication. A SecretId is paired with a unique SecretKey, which is used to generate the request signature. For more information, see <a href="#">Signature Method</a> .	String	Yes
Signature	The request signature, which is used to verify the validity of this request. It is generated based on the actual input parameters. For the calculation method, see <a href="#">Signature Method</a> .	String	Yes

Parameter Name	Description	Type	Required
SignatureMethod	Signature method. Supported methods are HmacSHA256 and HmacSHA1. The HmacSHA256 method is used to verify signatures only when the parameter is specified as HmacSHA256. Otherwise, HmacSHA1 is used. For more information, see <a href="#">Signature Method</a> .	String	No
Token	The token used by the temporary certificate, which needs to be used in conjunction with the temporary key. No token is required for permanent keys.	String	No

## Use Cases

The following example shows how a common request parameter looks like in an Tencent Cloud API request. For example, if you want to query the list of Tencent Cloud CVM instances in Guangzhou regions, the desired request format is:

```
https://cvm.api.qcloud.com/v2/index.php?  
Action=DescribeInstances  
&SecretId=xxxxxxx  
&Region=ap-guangzhou  
&Timestamp=1465055529  
&Nonce=59485  
&Signature=mysignature  
&SignatureMethod=HmacSHA256  
&<Common request parameter>
```



# API Request Parameters

Last updated : 2019-09-19 16:48:43

A complete TencentCloud API request requires two types of request parameters: common request parameters and API request parameters. This document describes the API request parameters required by TencentCloud API requests. For detailed descriptions of common request parameters, see [Common Request Parameters](#).

API request parameters vary by API. API request parameters should always begin with a lowercase letter so that they can be differentiated from common request parameters.

This document illustrates parameters specific to Tencent Cloud CVMs. For parameters specific to other Tencent Cloud products, see the relevant API documents.

For example, the Tencent Cloud CVM API [Querying Instance List](#) (DescribeInstances) supports the following API request parameters:

Parameter Name	Description	Type	Required
instanceIds.n	The array of the IDs of the CVM instances to be queried, with the array subscript starting at 0. You can use <code>instanceId</code> and <code>unInstanceId</code> , and we recommend using the uniform resource ID <code>unInstanceId</code> .	String	No
lanIps.n	The array of the private IPs of the CVM instances to be queried.	String	No
searchWord	The user-defined CVM instance alias.	String	No
offset	The offset at which the entries start. The first entry is 0, the second entry is 1, and so on and so forth.	Int	No
limit	The maximum number of instances that can be queried at a time. The default is 20 and the maximum is 100.	Int	No
status	The status of the CVM instance to be queried.	Int	No
projectId	The ID of the project. If this parameter is not passed in, the CVM instances of all projects will be queried. 0 indicates the default project. If you want to specify other projects, call the Query Project List API (DescribeProject) to query.	String	No
simplify	Obtains non-real time data if the input parameter <code>simplify=1</code> is passed in.	Int	No
zoneId	The ID of the availability zone. If this parameter is not passed in, the CVM instances in all availability zones will be queried. If you want to specify an availability zone, call the <a href="#">Query Availability Zone List API</a> (DescribeAvailabilityZones) to query.	Int	No

The descriptions of each field are as follows:

**Parameter Name:** The name of the request parameter supported by the API. You can use it as an API request parameter when calling the API. A parameter name ending with ".n" represents an array, for which you need to pass in the array members individually.

**Required:** Indicates whether this parameter is required. "Yes" means the parameter is required when you call the API. "No" means the parameter can be left empty.

**Type:** Data type of the API parameter.

**Description:** A brief description of the API request parameter.

### Use Cases

The following sample shows how API request parameters look in a TencentCloud API request. For example, if you want to query the list of scaling groups for a Tencent Cloud CVM, the request link should look like this:

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

# Final Request Format

Last updated : 2019-09-18 15:24:25

## Concatenation Rule

A TencentCloud API request URL is concatenated as follows:

```
https:// + request domain name + request path + ? + final request parameter string
```

The elements of each URL are described as follows:

- **Request host:** Request domain name is determined by the product or product module to which the API belongs. For example, the request domain name for the Tencent Cloud CVM API for querying instance list (DescribeInstances) is: `cvm.api.qcloud.com`. For the request domain names of specific products, see the description of each API.
- **Request path:** The request path for the product to which the TencentCloud API belongs. Each product has a fixed path. For example, the request path for Tencent Cloud CVM is always `/v2/index.php`.
- **Final request parameter string:** The API request parameter string consists of common request parameters and API request parameters.

## Use Cases

The final request URL for a TencentCloud API is as follows:

Taking Tencent Cloud CVM's [Querying Instance List API](#) (DescribeInstances) as an example, the first six parameters are common request parameters, while the last six ones are API request parameters.

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

# Return Value

## Successful Response

Last updated : 2019-09-18 15:26:44

This is a legacy API and may be deprecated in the future. It is currently not displayed on the left sidebar. We recommend using [CVM API v3.0](#), which is more standardized and has much lower access latency.

If an API call succeeds, the `code` field in the final return result will be 0. The `message` field is empty, and the return result data is displayed.

Below is a sample:

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

# Error Response

Last updated : 2019-09-18 15:27:00

This is a legacy API and may be deprecated in the future. It is currently not displayed on the left sidebar. We recommend using [CVM API v3.0](#), which is more standardized and has much lower access latency.

If an API call fails, the `code` field in the final return result will not be 0, and a detailed error message will be displayed in the `message` field. You can go to [Error Codes](#) and use `code` and `message` to check the error information.

Below is a sample of an error:

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

# Error Codes

Last updated : 2017-10-17 22:36:48

The error code included in the response packet provides the summary of results of calling and execution of Tencent Cloud APIs. Any error code other than 0 indicates the request is not properly executed. An error message describes the error in details. Users can come up with the API execution result based on the error code.

On some terminals, such as browsers, message in Chinese is displayed in Unicode and needs to be decoded.

**The following table lists the error codes that may be returned by Tencent Cloud APIs:**

Error Code	Error Type	Description
4000	Invalid request parameter	Required parameter is missing, or parameter value is not in a correct format. For relevant error message, please see the message field in error description.
4100	Authentication failed	Signature authentication failed. Please see the Authentication section in the document.
4200	Request expired	The request has expired. Please see the Request Validity Period section in the document.
4300	Access denied	Account is blocked or not within the user range of the API.
4400	Quota exceeded	The number of requests exceeds the quota. For more information, please see the Request Quota section in the document.
4500	Replay attack	The Nonce and Timestamp parameters can ensure that each request will be executed only once on the server. Therefore, the Nonce value cannot be the same as last one, and the difference between Timestamp and Tencent server time cannot be greater than 2 hours.
4600	Protocol not supported	The protocol is not supported. For more information, please see the relevant document.
5000	Resource not found	The instance corresponding to resource ID does not exist, or the instance has been returned, or another user's resource is accessed.
5100	Resource operation failed	The operation performed on the resource failed. For relevant error message, please see the message field in error description. Try again later or contact customer service personnel for help.
5200	Failed to purchase resource	The resource purchase failed. This is may be caused by unsupported instance configuration or insufficient resource.
5300	Failed to purchase resource	The resource purchase failed because of insufficient balance.
5400	Part of operations performed successfully	Part of the batch operations have been performed successfully. For more information, please see the returned value of method.
5500	Identity verification failed	Unable to purchase resource as the user failed to pass identity verification.

6000	Internal server error	An internal error occurred on the server. Try again later or contact customer service for help.
6100	Not supported by the version	This API is not supported in this version or the API is under maintenance. Note: When this error occurs, first check whether the domain of the API is correct. Different modules may have different domains.
6200	API temporarily unavailable	The API is unavailable due to maintenance. Try again later.

# Return Format for Async Task APIs

Last updated : 2019-09-20 11:48:15

## Format of Returned Results for Common Asynchronous Task APIs

Sending one request to common Asynchronous Task API allows you to operate only one type of resource at a time. For example, you can create load balancer or reset server operating system by making a call to the specified common Asynchronous Task API.

Name	Type	Description	Required
code	Int	Error code of the returned result. 0: success; other values: failure.	Yes
message	String	Error message of the returned result.	No
requestId	String	Task number	Yes

## Format of Returned Results for Batch Asynchronous Task APIs

With such asynchronous task APIs, multiple resources can be operated for each request, for example, changing passwords, starting or shutting down servers.

Name	Type	Description	Required
code	Int	Error code of the returned result. 0: success; other values: failure.	Yes
message	String	Error message of the returned result.	No
detail	Array	The code, message, and requestId of the resource operation are returned with the resource ID as the key.	Yes

For example:

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



- If the operation succeeds for all resources, the outermost code is 0.
- If the operation fails for all resources, the outermost code is 5100.
- If the operation fails for some resources, the outermost code is 5400.
- In the third case, the terminal can obtain information about the failed operations via the `detail` field.

# Request Signature

Last updated : 2019-09-18 15:24:55

This is a legacy API and may be deprecated in the future. It is currently not displayed on the left sidebar. We recommend using [CVM API v3.0](#), which is more standardized and has much lower access latency.

TencentCloud API authenticates each access request, so each request is required to include the Signature in the common request parameters for user authentication. The signature is generated with the user's security credentials, which consist of a SecretId and a SecretKey. Users who have no security credentials can apply for one on Tencent Cloud official website; otherwise, you will not be able to call TencentCloud API.

## Applying for Security Credentials

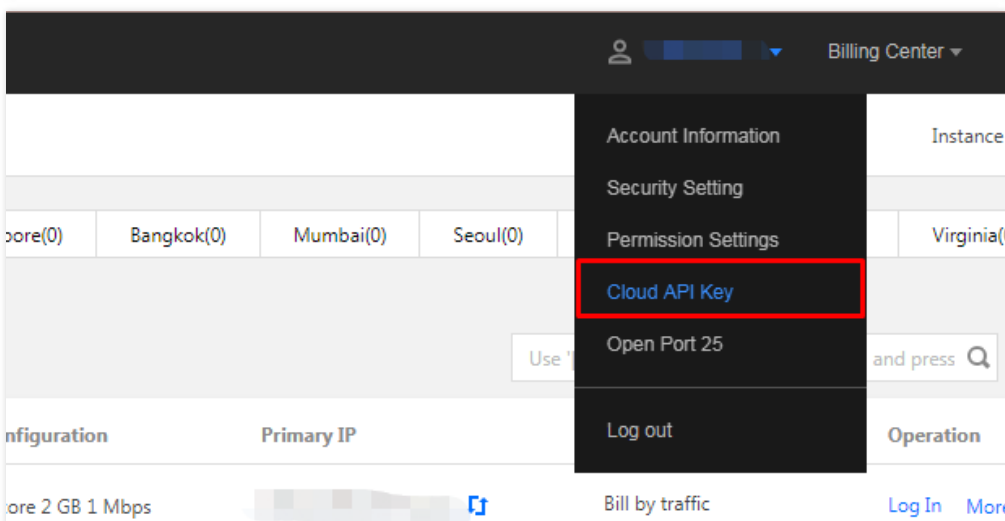
Before using TencentCloud API for the first time, you need to apply for security credentials in **Tencent Cloud Console** > [API Key Management](#). Security credentials consist of a SecretId and a SecretKey.

- **SecretId** is the identity of the requester.
- **SecretKey** is used to encrypt the strings to create a signature so that Tencent Cloud server can validate the identity of the requester.

SecretKeys are very important. With this credential, you can access and manage the resources in your Tencent Cloud account via API. For security reasons, please keep your keys safe and rotate them regularly, and make sure you delete the old key when a new one is created.

### How to apply for security credentials

1. Log in to the [Tencent Cloud Console](#).
2. Click **Products** and select **Security Credentials** under **Management Tools** to go to the TencentCloud API Key Management page.

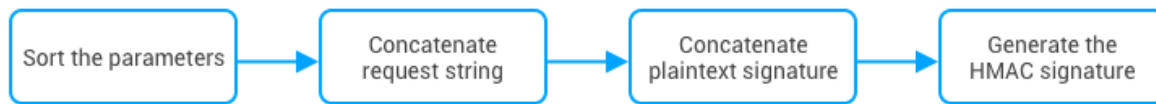


3. On the [API Key Management](#) page, click **Create Key** to create a pair of SecretId/SecretKey.

- A developer account can have up to two pairs of SecretIds/SecretKeys.
- A developer can add a QQ account as a sub-user and use it to apply for different security credentials in multiple developer consoles
- A sub-user can only call the specified Tencent Cloud APIs with its security credential.

## Generating a Signature String

After obtaining the security credentials (SecretId and SecretKey), you can generate a signature.



Assume that the SecretId and SecretKey are:

SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA

SecretKey: Gu5t9xGARNpq86cd98joQYCN3Cozk1qA

This example is for demonstration purposes only. Make sure that you proceed with your actual SecretId, SecretKey, and request parameters.

For example, when you call Tencent Cloud CVM's API [Viewing Instance List](#) (DescribeInstances), the request parameters are as follows:

Parameter Name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
SignatureMethod	Signature method	HmacSHA256
InstanceIds.0	ID of the instance to be queried	ins-09dx96dg

### 1. Sorting Parameters

First, sort all request parameters by parameter name in ascending lexicographical order, just like sorting words in a dictionary in ascending alphabetical order or numerical order. That is to say, sort the parameters by their first letters, and then sort the parameters with the same first letter by their second letters, and so on. You can do this with the aid of relevant sorting functions in the programming language, such as the `ksort` function in PHP. The sorting results of the above sample parameters are as follows:

```
{
  "Action": "DescribeInstances",
  "InstanceId.0": "ins-09dx96dg",
  "Nonce": "11886",
  "Region": "ap-guangzhou",
  "SecretId": "AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA",
  "SignatureMethod": "HmacSHA256",
  "Timestamp": "1465185768"
}
```

Any other programming language can be used to sort these parameters as long as the same result is produced.

## 2. Generating Request String

This step generates a request string.

Assign values to the parameters (see the previous step) by following the logic "parameter name"="parameter value". For example, if the value of "Action" is "DescribeInstances", then `Action=DescribeInstances`.

- "Parameter value" is the original value, instead of the URL encoded value.
- If the key of an input parameter contains an underscore, the underscore should be replaced with a `.`; however, underscores in the value do not need to be replaced. For example, `Placement_Zone=CN_GUANGZHOU` should be converted to `Placement.Zone=CN_GUANGZHOU`.

Then, concatenate the formatted parameters with `"&"` to generate the request string (ignore the link breaks here):

```
Action=DescribeInstances
&InstanceId.0=ins-09dx96dg
&Nonce=11886
&Region=ap-guangzhou
&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
&SignatureMethod=HmacSHA256
&Timestamp=1465185768
```

## 3. Concatenating a Signature Original String

This step generates a signature original string.

The structure for a signature original string is as follows:

```
request method + request host + request path + ? + request string
```

The parameters are as detailed below:

**Request method:** Both POST and GET methods are supported. GET is used here. Note that the method name should be in all capital letters.

- **Request host:** This is the host domain name. Request domain name is determined by the product or product module to which the API belongs. For example, the request domain name for the Tencent Cloud CVM API for querying instance list

(DescribeInstances) is: `cvm.api.qcloud.com` . For the request domain names of specific products, see the description of each API.

- **Request path:** The request path for the product to which the Tencent Cloud API belongs. Each product has a fixed path. For example, the request path for Tencent Cloud CVM is always `/v2/index.php` .
- **Request string:** This is the request string generated in the previous step.

The resulting original signature string in the above example is as follows (ignore the line breaks in the text):

```
GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances
&InstanceId=ins-09dx96dg
&Nonce=11886
&Region=ap-guangzhou
&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
&SignatureMethod=HmacSHA256
&Timestamp=1465185768
```

#### 4. Generating Signature String

This step generates a signature string.

There are two ways to calculate a signature: HmacSHA256 and HmacSHA1. Here, a signature string is generated based on the specified signature algorithm (i.e., the `SignatureMethod` parameter). The signature will be calculated with the HmacSHA256 algorithm if `SignatureMethod` is specified as HmacSHA256. In other cases, the signature will be calculated with HmacSHA1.

First, create a hash-based message authentication code (HMAC) that uses HmacSHA256 or HmacSHA1 protocols to sign the string from the previous step, then encode the resulting signature to Base64.

In this example, we use PHP language and calculate the signature using **HmacSHA256** (Note: you can use any other programming languages as long as the resulting signature is the same as the one in this example). The sample code is shown as follows:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3Cozk1qA';
$srcStr = 'GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&InstanceId=ins-09dx96dg&Nonce=11886&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&SignatureMethod=HmacSHA256&Timestamp=1465185768';
$signStr = base64_encode(hash_hmac('sha256', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
0EEem/HtGRr/VJXTAD9tYMth1Bzm3lLHz5RCDv1GdM8s=
```

Similarly, if you specify the signature algorithm as **HmacSHA1**, the code to generate the signature string is as follows:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3Cozk1qA';
$srcStr = 'GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&InstanceId=ins-09dx96dg&Nonce=11886&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&SignatureMethod=HmacSHA1&Timestamp=1465185768';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
nPVnY6njQmwQ8ciqbPI5Qe+Oru4=
```

## Encoding Signature String

The signature must be URL encoded.

For example, the signature string `0EEem/HtGRr/VJXTAD9tYMth1Bzm3lLHz5RCDv1GdM8s=` generated in the previous step should be encoded to `0EEem/HtGRr/VJXTAD9tYMth1Bzm3lLHz5RCDv1GdM8s=`. Therefore, the resulting request parameter for the signature string ( `Signature` ) is `0EEem/HtGRr/VJXTAD9tYMth1Bzm3lLHz5RCDv1GdM8s=`, which will be used to generate the final request URL.

If you are sending a GET request, all parameters in the request need to be URL encoded. Please note that some languages may offer auto-URL encoding, and repeated encoding will cause signature verification failure.

## Authentication Failure

The following errors may occur when authentication fails:

Error Code	Error Type	Error Description
4100	Authentication failed	Make sure the signature added to your request is calculated correctly (see steps above as reference) and URL encoded.
4101	No API access authorization	The sub-user is not authorized to call this API. Please contact the developer for authorization. For more information, see <a href="#">Authorization Policy</a> .
4102	No authorization to access resources	You are not authorized to access resources used by this API. Check the relevant resource IDs in the <code>message</code> field and contact the developer for authorization. For more information, see <a href="#">Authorization Policy</a> .
4103	Non-developer's SecretId cannot be used to call this API	The sub-user's SecretId cannot be used to call this API. Only the developer has the access to this API.
4104	SecretId does not exist	The SecretId does not exist, or the status of SecretKey is incorrect. Please make sure that the API key is valid and enabled.
4110	Authentication failed	Permission verification failed. Please make sure that you are granted the permission to access the resources.
4500	Replay attack error	Please note that the <code>Nonce</code> parameter must be unique, and the difference between <code>Timestamp</code> and Tencent server time should not be greater than 2 hours.

# Use Cases

Last updated : 2019-09-18 15:25:21

Here is a use case to help you quickly get started with TencentDB for MongoDB APIs.

This sample shows how to create an instance: First, query the supported specification of the instance; then, query the fees for creating the instance and create the instance using the instance creation API; finally, query the instance creation progress using the order details querying API.

## 1. Querying Supported Instance Specifications

Before creating an instance, query the specifications of instances that can be created using the [Query Available Specification API](#).

The input parameters for this API (supporting custom availability zones and configurations) are as follows:

Parameter Name	Required	Type	Description	Value
zonelds.n	No	String	The array of availability zone IDs, with the array subscript starting at 0. If this parameter is not passed in, the product information of all availability zones will be returned	100002

Availability zones are defined as follows:

Availability Zone	zoneld
Guangzhou Zone 1	100001
Guangzhou Zone 2	100002
Guangzhou Zone 3	100003
Shanghai Zone 1	200001
Hong Kong Zone 1	300001
Toronto Zone 1	400001
Beijing Zone 1	800001

The return value of the Query Available Specification API (supporting custom availability zones and configurations) is the configuration information of the creatable instances under each availability zone. Taking the configuration information of instances in Guangzhou Zone 2 in the return value as an example, the fields are as defined below:

Parameter Name	Type	Description
region	String	The ID of the region. For more information, see <a href="#">Common Request Parameters</a>
isSupportVpc	Bool	Whether VPC is supported. Valid values: true, false
types	Object	Supported instance specification information

Here, `types` indicates the supported instance specification information and is composed as follows:

Parameter Name	Type	Description
typeId	String	The name of the instance type. GIO: high-IO edition; TGIO: 10-Gigabit high-IO edition
replicationNodeNum	Array	Number of nodes of replica set. Only 2 and 3 are supported currently
memory	Int	The memory size of the instance in MB. Each memory value corresponds to a selectable disk capacity range
volumeMax	Int	The maximum value of the selectable disk capacity of the instance in GB after the memory size is specified
volumeMin	Int	The minimum value of the selectable disk capacity of the instance in GB after the memory size is specified
volumeStep	Int	The increment of the disk capacity of the instance in GB after the memory size is specified. For instance creation, the value for the disk (volume) is: volume = volumeMin + volumeStep * n, where volumeMin <= volume <= volumeMax
version	Array	Supported database version number, for example: MONGO_3_MMAP, MONGO_3_WT

By combining common request parameters and API request parameters, you can generate the final request as shown below:

```
https://mongodb.api.qcloud.com/v2/index.php?
Action=DescribeMongoDBProduct
&SecretId=AKIDVxZ0PsvtPCgNEtsO0pSFwqkeTMFCu7z1
&Signature=eSCz5paiDrXsdifc0Eq0GEihzsl%3D
&Nonce=23284
&Timestamp=1468329994
&Region=gz
&zonedId.0=100002
```

The return result of the above request is as follows:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "timeSpan": [
      1,
      2,
      3,
      4,
      5,
      6,
      7,
      8,
      9,
      10,
      11,
      12,
      24,
      36
    ],
    "timeUnit": "m",
  }
}
```



```
"goodsDescription": {
  "100002": {
    "region": "gz",
    "isSupportVpc": true,
    "types": [
      {
        "typeId": "GIO",
        "replicationNodeNum": [
          2,
          3
        ],
        "memory": 2048,
        "volumeMax": 250,
        "volumeMin": 25,
        "volumeStep": 5,
        "version": [
          "MONGO_3_MMAP",
          "MONGO_3_WT"
        ]
      },
      {
        "typeId": "GIO",
        "replicationNodeNum": [
          2,
          3
        ],
        "memory": 4096,
        "volumeMax": 250,
        "volumeMin": 25,
        "volumeStep": 5,
        "version": [
          "MONGO_3_MMAP",
          "MONGO_3_WT"
        ]
      },
      {
        "typeId": "GIO",
        "replicationNodeNum": [
          2,
          3
        ],
        "memory": 6144,
        "volumeMax": 250,
        "volumeMin": 25,
        "volumeStep": 5,
        "version": [
          "MONGO_3_MMAP",
          "MONGO_3_WT"
        ]
      },
      {
        "typeId": "GIO",
        "replicationNodeNum": [
          2,
          3
        ],

```

```
"memory": 8192,
"volumeMax": 500,
"volumeMin": 25,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 12288,
  "volumeMax": 500,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 16384,
  "volumeMax": 500,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 24576,
  "volumeMax": 500,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
```

```
"replicationNodeNum": [
2,
3
],
"memory": 32768,
"volumeMax": 500,
"volumeMin": 25,
"volumeStep": 5,
"version": [
"MONGO_3_MMAP",
"MONGO_3_WT"
]
},
{
"typed": "GIO",
"replicationNodeNum": [
2,
3
],
"memory": 49152,
"volumeMax": 750,
"volumeMin": 25,
"volumeStep": 5,
"version": [
"MONGO_3_MMAP",
"MONGO_3_WT"
]
},
{
"typed": "GIO",
"replicationNodeNum": [
2,
3
],
"memory": 61440,
"volumeMax": 1000,
"volumeMin": 25,
"volumeStep": 5,
"version": [
"MONGO_3_MMAP",
"MONGO_3_WT"
]
},
{
"typed": "GIO",
"replicationNodeNum": [
2,
3
],
"memory": 65536,
"volumeMax": 1000,
"volumeMin": 25,
"volumeStep": 5,
"version": [
"MONGO_3_MMAP",
"MONGO_3_WT"
]
```

```
]
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 4096,
  "volumeMax": 300,
  "volumeMin": 50,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 8192,
  "volumeMax": 300,
  "volumeMin": 100,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 16384,
  "volumeMax": 600,
  "volumeMin": 200,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 32768,
  "volumeMax": 1200,
  "volumeMin": 400,
```

```
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
],
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 65536,
  "volumeMax": 4000,
  "volumeMin": 750,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 131072,
  "volumeMax": 6000,
  "volumeMin": 1500,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 245760,
  "volumeMax": 6000,
  "volumeMin": 1500,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "CY",
  "replicationNodeNum": [
    2,
    3
  ]
}
```

```

],
"memory": 524288,
"volumeMax": 6000,
"volumeMin": 4000,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
}
]
}
}
}
}
}
}
}
}
}
}

```

## 2. Querying Order Details

After creating an instance, use the [Query Order Details API](#) to query the order details with the `dealId` in the return value.

Parameter Name	Required	Type	Description	Value
dealIds.n	Yes	String	The array of order IDs, with the array subscript starting at 0	3373037

By combining common request parameters and API request parameters, you can generate the final request as shown below:

```

https://mongodb.api.qcloud.com/v2/index.php?
Action=DescribeMongodbDealDetail
&Timestamp=1468329117
&Nonce=40727
&SecretId=AKIDVxZ0PsvtPCgNEtsO0pSFwqkeTMFCu7z1
&Signature=Y9rMVWYyjoijSl6zJxMW822edGk%3D
&dealIds.0=3373037

```

The output is as follows:

```

{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "details": [
    {
      "dealId": "3373037",
      "dealName": "20170206121420",
      "zoneId": 100002,
      "goodsNum": 1,
      "creator": "3374998458",
      "creatTime": "2017-02-06 14:07:46",
      "overdueTime": "2017-02-21 14:07:46",
      "endTime": "2017-02-06 14:11:54",
      "status": 4,
      "price": 72200,
      "goodsDetail": {

```

```

"memSize": 4096,
"disksize": 30,
"typeld": "GIO",
"clusterType": "ReplSet",
"secondaryNum": 2,
"zoneld": 100002,
"mongoVersion": "MONGO_3_MMAP",
"timeSpan": 1,
"timeUnit": "m",
"SerialIds": [
  "cmgo-6ozqe0uh"
]
}
}
]
}

```

The `details` in the return value of the Query Order Details API indicates the array of order details with the following fields:

Parameter Name	Type	Description
details.dealId	String	Short order ID. Use this ID when calling the TencentCloud API
details.dealName	String	Long order ID. Use this ID when reporting order-related problems to customer service
details.zoneld	Int	Availability Zone ID
details.goodsNum	Int	Number of instances associated with the order
details.creator	String	The UIN of the order creator
details.creatTime	String	Order creation time
details.overdueTime	String	Order expiration time
details.endTime	String	The completion time of the order
details.status	Int	The status of the order. 1: unpaid; 2: paid but not shipped; 3: in transition; 4: successfully shipped; 5: shipment failed; 6: refunded; 7: order closed; 8: order expired; 9: order invalidated; 10: product invalidated; 11: requested payment rejected; 12: payment in process
details.price	Int	The actual total price of the order in 0.01 USD
details.goodsDetail	Object	Details of the items associated with the order

**goodsDetail** returned upon instance creation:

Parameter Name	Type	Description
memSize	int	The memory size of the instance in MB
disksize	int	The disk capacity of the instance in GB
typeId	String	The type name of the instance. GIO: high-IO edition; TGIO: 10-Gigabit high-IO edition
clusterType	Array	The cluster type of the instance. Only replica set is available currently
secondaryNum	Array	Number of slave nodes of replica set. Only 1 and 2 are supported currently
zoneId	Array	Availability Zone ID
mongoVersion	Array	Database version number, for example: MONGO_3_MMAP, MONGO_3_WT
timeSpan	Array	The validity period of the instance, with the unit being subject to the return value of <code>timeUnit</code>
timeUnit	Array	The unit of the validity period of the instance, m: month; d: day
SerialIds	Array	The array of instance IDs

**goodsDetail returned when the instance is renewed:**

Parameter Name	Type	Description
curDeadline	String	The expiration time of the instance before renewal
timeSpan	int	Renewed period, with the unit being subject to the return value of <code>timeUnit</code>
timeUnit	String	The unit of the renewed period, m: month; d: day
SerialIds	Array	The array of instance IDs

**goodsDetail returned when the instance is upgraded:**

Parameter Name	Type	Description
curDeadline	String	Instance expiration time
newMemsize	int	The memory size of the instance after upgrade in MB
newDisksize	int	The disk capacity of the instance after upgrade in GB
oldMemsize	int	The memory size of the instance before upgrade in MB
oldDisksize	int	The disk capacity of the instance before upgrade in GB
SerialIds	Array	The array of instance IDs



# Region API

## Query Available Specification

Last updated : 2017-05-03 15:08:54

### 1. API Description

This API (DescribeMongoDBProduct) is used to query supported instance specifications. It can return the purchased usage period of creatable instances, and return the machine type, number of nodes of replica set, memory size, disk range and database version number of creatable instances by availability zone types.

You can also use API [Query Instance Price \(Annual or Monthly Plan\)](#) to query the prices of creatable instances, and use API [Create Instance \(Annual or Monthly Plan\)](#) to create a new instance.

Domain for API request: [mongodb.api.qcloud.com](http://mongodb.api.qcloud.com)

This API can be used to query the supported specifications under specified availability zone. Users who are not in the purchaser whitelist cannot query the details of supported specifications under the availability zone. You can apply for the purchase of the whitelist of a region by submitting a [Ticket](#).

### 2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see [Common Request Parameters](#) page. The Action field for this API is DescribeMongoDBProduct.

Parameter Name	Required	Type	Description
zonelds.n	No	String	An array of availability zone IDs, with array subscript starting from 0. If this parameter is left empty, the product information of all the availability zones will be returned

Availability zones are defined as follows:

Availability Zone	zoneld
Guangzhou Zone 1	100001
Guangzhou Zone 2	100002
Guangzhou Zone 3	100003
Shanghai Zone 1	200001
Hong Kong Zone 1	300001
Toronto Zone 1	400001
Beijing Zone 1	800001

### 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see <a href="#">Common Error Codes</a> on the Error Codes page.
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Configuration information of supported instance specification

Parameter data indicates the configuration information of supported instance specification, and is composed as follows:

Parameter Name	Type	Description
timeSpan	Array	Purchasable usage period of instance
timeUnit	String	Unit of purchasable usage period of instance (m: month; d: day)
goodsDescription	Object	Information of supported instance specification

Parameter goodsDescription indicates the configuration information of instance, and is composed as follows:

Parameter Name	Type	Description
100002/100003/...	Object	Availability Zone ID

100002 is the availability zone ID and its value indicates the instance specification information supported under the availability zone. It is composed as follows:

Parameter Name	Type	Description
region	String	Region ID. For more information, please see <a href="#">Common Request Parameters</a>
isSupportVpc	Bool	Whether VPC is supported. Values: True and False
types	Object	Content of supported instance specification

Parameter types represents the supported instance specification content, and is composed as follows:

Parameter Name	Type	Description
typeId	String	Name of instance type
replicationNodeNum	Array	Number of nodes of replica set. Only 2 and 3 are supported currently
memory	Int	Instance memory size. Each memory value corresponds to a selectable disk capacity range (in MB)

GIO:  
High IO;  
TGIO:  
High IO  
(10 GB)

Parameter Name	Type	Description
volumeMax	Int	The maximum value of the selectable capacity range of the instance hard disk (in GB) when the memory size is specified
volumeMin	Int	The minimum value of the selectable capacity range of the instance hard disk (in GB) when the memory size is specified
volumeStep	Int	Increment of hard disk capacity of the instance (in GB) after memory size is specified. For the creation of an instance, value for volume (capacity of hard disk) is: $\text{volume} = \text{volumeMin} + \text{volumeStep} * n$ ; ( $\text{volumeMin} \leq \text{volume} \leq \text{volumeMax}$ )
version	Array	Supported database version number, for example: MONGO_3_MMAP, MONGO_3_WT

## 4. Error Codes

The following error codes include the business logic error codes for this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Incorrect business parameter
11060	ServiceUnavailable	The service is unavailable in the requested region currently

## 5. Example

Input

```
https://mongodb.api.qcloud.com/v2/index.php?Action=DescribeMongoDBProduct
&<Common request parameters>
&zoneIds.0=100002
&zoneIds.1=200001
```

Output

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "timeSpan": [
      1,
      2,
      3,
      4,
      5,
      6,
      7,
```

```
8,
9,
10,
11,
12,
24,
36
],
"timeUnit": "m",
"goodsDescription": {
  "100002": {
    "region": "gz",
    "isSupportVpc": true,
    "types": [
      {
        "typeId": "GIO",
        "replicationNodeNum": [
          2,
          3
        ],
        "memory": 2048,
        "volumeMax": 250,
        "volumeMin": 25,
        "volumeStep": 5,
        "version": [
          "MONGO_3_MMAP",
          "MONGO_3_WT"
        ]
      },
      {
        "typeId": "GIO",
        "replicationNodeNum": [
          2,
          3
        ],
        "memory": 4096,
        "volumeMax": 250,
        "volumeMin": 25,
        "volumeStep": 5,
        "version": [
          "MONGO_3_MMAP",
          "MONGO_3_WT"
        ]
      },
      {
        "typeId": "GIO",
        "replicationNodeNum": [
          2,
          3
        ],
        "memory": 6144,
        "volumeMax": 250,
        "volumeMin": 25,
        "volumeStep": 5,
        "version": [
          "MONGO_3_MMAP",
```

```
"MONGO_3_WT"  
]  
},  
{  
  "typeId": "GIO",  
  "replicationNodeNum": [  
    2,  
    3  
  ],  
  "memory": 8192,  
  "volumeMax": 500,  
  "volumeMin": 25,  
  "volumeStep": 5,  
  "version": [  
    "MONGO_3_MMAP",  
    "MONGO_3_WT"  
  ]  
},  
{  
  "typeId": "GIO",  
  "replicationNodeNum": [  
    2,  
    3  
  ],  
  "memory": 12288,  
  "volumeMax": 500,  
  "volumeMin": 25,  
  "volumeStep": 5,  
  "version": [  
    "MONGO_3_MMAP",  
    "MONGO_3_WT"  
  ]  
},  
{  
  "typeId": "GIO",  
  "replicationNodeNum": [  
    2,  
    3  
  ],  
  "memory": 16384,  
  "volumeMax": 500,  
  "volumeMin": 25,  
  "volumeStep": 5,  
  "version": [  
    "MONGO_3_MMAP",  
    "MONGO_3_WT"  
  ]  
},  
{  
  "typeId": "GIO",  
  "replicationNodeNum": [  
    2,  
    3  
  ],  
  "memory": 24576,  
  "volumeMax": 500,
```

```
"volumeMin": 25,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
],
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 32768,
  "volumeMax": 500,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 49152,
  "volumeMax": 750,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 61440,
  "volumeMax": 1000,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
```

```
3
],
"memory": 65536,
"volumeMax": 1000,
"volumeMin": 25,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
}
],
},
"200001": {
  "region": "sh",
  "isSupportVpc": true,
  "types": [
    {
      "typeId": "GIO",
      "replicationNodeNum": [
        2,
        3
      ],
      "memory": 2048,
      "volumeMax": 250,
      "volumeMin": 25,
      "volumeStep": 5,
      "version": [
        "MONGO_3_MMAP",
        "MONGO_3_WT"
      ]
    },
    {
      "typeId": "GIO",
      "replicationNodeNum": [
        2,
        3
      ],
      "memory": 4096,
      "volumeMax": 250,
      "volumeMin": 25,
      "volumeStep": 5,
      "version": [
        "MONGO_3_MMAP",
        "MONGO_3_WT"
      ]
    },
    {
      "typeId": "GIO",
      "replicationNodeNum": [
        2,
        3
      ],
      "memory": 6144,
      "volumeMax": 250,
      "volumeMin": 25,
```

```
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 8192,
  "volumeMax": 500,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 12288,
  "volumeMax": 500,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ],
  "memory": 16384,
  "volumeMax": 500,
  "volumeMin": 25,
  "volumeStep": 5,
  "version": [
    "MONGO_3_MMAP",
    "MONGO_3_WT"
  ]
},
{
  "typeId": "GIO",
  "replicationNodeNum": [
    2,
    3
  ]
}
```



```
],
"memory": 24576,
"volumeMax": 500,
"volumeMin": 25,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
},
{
"typed": "GIO",
"replicationNodeNum": [
2,
3
],
"memory": 32768,
"volumeMax": 500,
"volumeMin": 25,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
},
{
"typed": "GIO",
"replicationNodeNum": [
2,
3
],
"memory": 49152,
"volumeMax": 750,
"volumeMin": 25,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
},
{
"typed": "GIO",
"replicationNodeNum": [
2,
3
],
"memory": 61440,
"volumeMax": 1000,
"volumeMin": 25,
"volumeStep": 5,
"version": [
  "MONGO_3_MMAP",
  "MONGO_3_WT"
]
},
{
```

```
"typeId": "GIO",
"replicationNodeNum": [
2,
3
],
"memory": 65536,
"volumeMax": 1000,
"volumeMin": 25,
"volumeStep": 5,
"version": [
"MONGO_3_MMAP",
"MONGO_3_WT"
]
}
]
}
}
}
```

# Instance API

## Query Price (Postpaid Plan)

Last updated : 2017-06-07 16:52:08

### 1. API Description

This API (InquiryMongoDB) is used to obtain the prices of replica set instances (annual or monthly plan). Queries of the prices for purchase, renewal and upgrade of instances are supported. |

Domain for API request: [mongodb.api.qcloud.com](http://mongodb.api.qcloud.com)

### 2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when API is called. For more information, please see [Common Request Parameters](#). The Action field for this API is InquiryMongoDB.

The input parameters vary with different products, as shown below:

#### 2.1 Querying the Price for the Purchase of an Instance

Parameter Name	Required	Type	Description
operation	Yes	String	newmongodb indicating the purchase of an instance should be input
zoneld	Yes	Int	Availability zone ID. You can use API <a href="#">Query Supported Instance Specifications</a> to obtain the supported availability zones
typeld	Yes	String	Name of instance type GIO: High IO; TGIO: High IO (10 GB)
memory	Yes	Int	Memory size of instance. Each memory value corresponds to a selectable disk capacity range (in MB)
diskSize	Yes	Int	Disk capacity of instance (in GB)
secondaryNum	Yes	Int	Number of slave nodes of replica set instance. Only 1 and 2 are supported currently
version	Yes	Int	Database version number, for example: MONGO_3_MMAP, MONGO_3_WT
goodsNum	Yes	Int	Number of instances purchased at a time
period	Yes	Int	Purchased usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]

#### 2.2 Querying the Price for the Renewal of an Instance

Parameter Name	Required	Type	Description
operation	Yes	String	renewmongodb indicating the renewal of an instance should be input

Parameter Name	Required	Type	Description
instanceld	Yes	String	ID of instance to work with. This can be obtained from instanceld in the returned values of API <a href="#">DescribeMongoDBInstances</a> .
period	Yes	Int	Renewed usage period (in month), with the range of [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]

### 2.3 Querying the Price for the Upgrade of an Instance

Parameter Name	Required	Type	Description
operation	Yes	String	upgrademongodb indicating the upgrade of an instance should be input
instanceld	Yes	String	ID of instance to work with. This can be obtained from instanceld in the returned values of API <a href="#">DescribeMongoDBInstances</a> .
memory	Yes	Int	Memory size of upgraded instance. Each memory value corresponds to a selectable disk capacity range (in MB)
diskSize	Yes	Int	Disk capacity of upgraded instance (in GB)

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see <a href="#">Common Error Codes</a> on the Error Codes page.
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Instance price content

Parameter data indicates the instance price content, and is composed as follows:

Parameter Name	Type	Description
data.price	Int	Price of instance (in 0.01 CNY)

## 4. Error Codes

The following error codes include the business logic error codes for this API.

Error Code	Error Message	Error Description
------------	---------------	-------------------

Error Code	Error Message	Error Description
11050	InvalidParameter	Incorrect business parameter
11060	ServiceUnavailable	The service is unavailable in the requested zone currently
11071	UserNotInWhiteList	The user is not in the whitelist
11061	TypeIdIllegal	Invalid typeId
11062	MemSizeExceedMaxLimit	The requested memory size exceeds the upper limit
11063	MemSizeIllegal	The requested memory size is not an integral multiple of 1024
11064	MemSizeNotInRange	The requested memory size is not in the supported range
11065	RequestSizeIllegal	The requested memory size or disk capacity is invalid. The memory size must be an integral multiple of 1024, and the disk capacity must be an integer
11066	DiskSizeNotInRange	The requested disk capacity is not in the supported range
11067	PeriodNotInRange	The requested period is not in the supported range. The value range is [1,2,3,4,5,6,7,8,9,10,11,12,24,36] (in month)
11072	SecondaryNumNotInRange	The number of slave nodes of replica set instance is not in the supported range. The value range is [1,2]
11056	InstanceNotExists	Instance does not exist
11051	InstanceDeleted	The instance has been reclaimed upon expiration
11068	UpgradeNotAllowedOnZoneId	Upgrade of instances is not allowed for this zone
11069	DiskSizeLessThanRealSize	The requested disk capacity is less than the actual value
11069	DiskSizeLessThanRealSize	The requested memory size is less than the actual value

## 5. Example

### Input

```

https://mongodb.api.qcloud.com/v2/index.php?Action=InquiryMongoDB
&<Common request parameters>
&operation=newmongodb
&zoneId=100002
&typeId=GI0
&memory=8192
&diskSize=245
&secondaryNum=2
&version=MONGO_3_MMAP
&goodsNum=1
&period=1

```

### Output

```
{  
  "code": 0,  
  "message": "",  
  "codeDesc": "Success",  
  "data": {  
    "price": 188800  
  }  
}
```

# Create Instance (Postpaid Plan)

Last updated : 2017-06-07 17:32:13

## 1. API Description

This API (CreateMongoDB) is used to create a replica set instance (annual or monthly plan).

Domain for API request: [mongodb.api.qcloud.com](https://mongodb.api.qcloud.com)

1. Please first use API [Query Supported Instance Specifications \(supporting custom availability zones and configurations\)](#) to query the supported instance specifications, and then use API [Query Instance Price \(Annual or Monthly Plan\)](#) to query the price of creatable instance;
2. Supported instance types: GIO: High IO; TGIO: High IO (10 GB);
3. Supported cloud database versions: MONGO\_3\_MMAP, MONGO\_3\_WT;
4. Value range of validity period of instance in a single creation: [1,2,3,4,5,6,7,8,9,10,11,12,24,36] (in month).

## 2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see [Common Request Parameters](#) page. The Action field for this API is CreateMongoDB.

Parameter Name	Required	Type	Description
zoneId	Yes	Int	Availability zone ID. You can use API <a href="#">Query Supported Instance Specifications</a> to obtain the supported availability zones
typeId	Yes	String	Name of instance type. GIO: High IO; TGIO: High IO (10 GB)
memory	Yes	Int	Memory size of instance. Each memory value corresponds to a selectable disk capacity range (in MB)
diskSize	Yes	Int	Disk capacity of instance (in GB)
secondaryNum	Yes	Int	Number of slave nodes of replica set instance. Only 1 and 2 are supported currently
version	Yes	Int	Database version number, for example: MONGO_3_MMAP, MONGO_3_WT
goodsNum	Yes	Int	Number of instances purchased at a time
period	Yes	Int	Purchased usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]
password	Yes	String	Password for the instance. Rule: It should be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers, special characters (!, @, #, %, ^, ())
unVpId	No	String	VPC ID. If it is left empty, the default is basic network. This value is subject to the unVpId returned by API <a href="#">Query VPC List</a> , such as: vpc-kd7d06of
unSubnetId	No	String	subnetId is invalid under basic network; Under VPC, the value is subject to the unSubnetId returned by the API <a href="#">Query Subnet List</a> , such as subnet-3lzkspo

Parameter Name	Required	Type	Description
projectId	No	Int	Project ID. The value is subject to the projectId returned via User Account > User Account-related APIs > <a href="#">Query Project List</a>

### 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see <a href="#">Common Error Codes</a> on the Error Codes page.
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Returned order ID

Parameter data indicates the order ID, and is composed as follows:

Parameter Name	Type	Description
data.dealId	String	Order ID. You can use API <a href="#">DescribeMongodbDealDetail</a> to query order details

### 4. Error Codes

The following error codes include the business logic error codes for this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Incorrect business parameter
11060	ServiceUnavailable	The service is unavailable in the requested zone currently
11071	UserNotInWhiteList	The user is not in the whitelist
11061	TypeIdIllegal	Invalid typeId
11062	MemSizeExceedMaxLimit	The requested memory size exceeds the upper limit
11063	MemSizeIllegal	The requested memory size is not an integral multiple of 1024
11064	MemSizeNotInRange	The requested memory size is not in the supported range
11065	RequestSizeIllegal	The requested memory size or disk capacity is invalid. The memory size must be an integral multiple of 1024, and the disk capacity must be an integer
11066	DiskSizeNotInRange	The requested disk capacity is not in the supported range



Error Code	Error Message	Error Description
11067	PeriodNotInRange	The requested period is not in the supported range. The value range is [1,2,3,4,5,6,7,8,9,10,11,12,24,36] (in month)
11072	SecondaryNumNotInRange	The number of slave nodes of replica set instance is not in the supported range. The value range is [1,2]
11059	PasswordRuleError	Incorrect password rule. The password must be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers and special characters (!, @, #, %, ^, *, ())
100207	OperationConstraints.AccountBalanceNotEnough	Insufficient account balance. Please top it up
11075	UnVpclidNotExists	unVpclid does not exist
11076	UnSubnetIdNotExists	unSubnetId does not exist

## 5. Example

### Input

```

https://mongodb.api.qcloud.com/v2/index.php?Action=CreateMongoDB
&<common request parameters>
&zoneId=100002
&typeId=GI0
&memory=4096
&diskSize=30
&secondaryNum=2
&version=MONGO_3_MMAP
&goodsNum=1
&period=1
&password=49A2d!e@f12e

```

### Output

```

{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "dealId": "3373037"
  }
}

```

# Renew Instance (Postpaid Plan)

Last updated : 2017-05-03 14:35:44

## 1. API Description

This API (RenewMongoDB) is used to renew a replica set instance (annual or monthly plan). Please make sure your account balance is sufficient.

Domain for API request: [mongodb.api.qcloud.com](http://mongodb.api.qcloud.com)

## 2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see [Common Request Parameters](#) page. The Action field for this API is RenewMongoDB.

Parameter Name	Required	Type	Description
instanceld	Yes	String	ID of instance to work with. This can be obtained from instanceld in the returned values of API <a href="#">DescribeMongoDBInstances</a> .
period	Yes	Int	Renewed usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see <a href="#">Common Error Codes</a> on the Error Codes page.
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Returned order ID

Parameter data indicates the order ID, and is composed as follows:

Parameter Name	Type	Description
data.dealId	String	Order ID. You can use API <a href="#">DescribeMongoddbDealDetail</a> to query order details

## 4. Error Codes

The following error codes include the business logic error codes for this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Incorrect business parameter
11056	InstanceNotExists	Instance does not exist
11051	InstanceDeleted	The instance has been reclaimed upon expiration
11067	PeriodNotInRange	The requested period is not in the supported range
100207	OperationConstraints.AccountBalanceNotEnough	Insufficient account balance. Please top it up

## 5. Example

### Input

```
https://mongodb.api.qcloud.com/v2/index.php?Action=RenewMongoDB
&<Common Request Parameters>
&instanceId=cmgo-6ozqe0uh
&period=1
```

### Output

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "dealId": "3374462"
  }
}
```

# Upgrade Instance (Postpaid Plan)

Last updated : 2017-05-03 14:35:33

## 1. API Description

This API (UpgradeMongoDB) is used to upgrade a replica set instance (annual or monthly plan). Please make sure your account balance is sufficient.

Domain for API request: [mongodb.api.qcloud.com](http://mongodb.api.qcloud.com)

## 2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see [Common Request Parameters](#) page. The Action field for this API is UpgradeMongoDB.

Parameter Name	Required	Type	Description
instanceId	Yes	String	ID of instance to work with. This can be obtained from instanceId in the returned values of API <a href="#">DescribeMongoDBInstances</a> .
memory	Int	Memory size of upgraded instance. Each memory value corresponds to a selectable disk capacity range (in MB)	
diskSize	Yes	Int	Disk capacity of upgraded instance (in GB)

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see <a href="#">Common Error Codes</a> on the Error Codes page.
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Array	Returned order ID

Parameter data indicates the order ID, and is composed as follows:

Parameter Name	Type	Description
data.dealId	String	Order ID. You can use API <a href="#">DescribeMongoddbDealDetail</a> to query order details

## 4. Error Codes

The following error codes include the business logic error codes for this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Incorrect business parameter
11056	InstanceNotExists	Instance does not exist
11051	InstanceDeleted	The instance has been reclaimed upon expiration
11068	UpgradeNotAllowedOnZoneId	Upgrade of instances is not allowed for this zone
11069	DiskSizeLessThanRealSize	The requested disk capacity is less than the actual value
11070	DiskSizeLessThanRealSize	The requested memory size is less than the actual value
100207	OperationConstraints.AccountBalanceNotEnough	Insufficient account balance. Please top it up

## 5. Example

Input

```
https://mongodb.api.qcloud.com/v2/index.php?Action=UpgradeMongoDB
&<Common Request Parameters>
&instanceId=cmgo-6ozqe0uh
&memory=8192
&diskSize=60
```

Output

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "dealId": "432587"
  }
}
```

# Querying Order Details

Last updated : 2019-09-18 15:28:03

## 1. API Description

This API (DescribeMongodbDealDetail) is used to query order details.

API domain name: **mongodb.api.qcloud.com**.

## 2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see [Common Request Parameters](#). The Action field of this API is DescribeMongodbDealDetail .

Parameter Name	Required	Type	Description
dealIds.n	Yes	String	The array of order IDs, with the array subscript starting at 0

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code. 0: success; other values: failure. For more information, see <a href="#">Common Error Codes</a> .
message	String	Error message. A null value indicates a success
codeDesc	String	Description of the action status. When the action has succeeded, "Success" is returned. When the action has failed, a message describing the cause of the error is returned.
details	Array	Array of returned order details

`details` indicates the array of order details and is composed as follows:

Parameter Name	Type	Description
details.dealId	String	Short order ID. Use this ID when calling the TencentCloud API
details.dealName	String	Long order ID. Use this ID when reporting order-related problems to customer service
details.zoneld	Int	Availability Zone ID
details.goodsNum	Int	Number of instances associated with the order
details.creator	String	The UIN of the order creator
details.creatTime	String	Order creation time
details.overdueTime	String	Order expiration time
details.endTime	String	The completion time of the order

Parameter Name	Type	Description
details.status	Int	The status of the order. 1: unpaid; 2: paid but not shipped; 3: in transition; 4: successfully shipped; 5: shipment failed; 6: refunded; 7: order closed; 8: order expired; 9: order invalidated; 10: product invalidated; 11: requested payment rejected; 12: payment in process
details.price	Int	The actual total price of the order in 0.01 USD
details.goodsDetail	Object	Details of the items associated with the order

**goodsDetail returned upon instance creation:**

Parameter Name	Type	Description
memSize	int	The memory size of the instance in MB
disksize	int	The disk capacity of the instance in GB
typeId	String	The type name of the instance. GIO: high-IO edition; TGIO: 10-Gigabit high-IO edition
clusterType	Array	The cluster type of the instance. 0: replica set
secondaryNum	Array	Number of slave nodes of the replica set instance. Only 1 and 2 are currently supported
zoneId	Array	Availability Zone ID
mongoVersion	Array	Database version number, for example: MONGO_3_MMAP, MONGO_3_WT
timeSpan	Array	The validity period of the instance, with the unit being subject to the return value of <code>timeUnit</code>
timeUnit	Array	The unit of the validity period of the instance, m: month; d: day
SerialIds	Array	The array of instance IDs

**goodsDetail returned when the instance is renewed:**

Parameter Name	Type	Description
curDeadline	String	The expiration time of the instance before renewal
timeSpan	int	Renewed period, with the unit being subject to the return value of <code>timeUnit</code>
timeUnit	String	The unit of the renewed period, m: month; d: day
SerialIds	Array	The array of instance IDs

**goodsDetail returned when the instance is upgraded:**

Parameter Name	Type	Description
curDeadline	String	Instance expiration time
newMemsize	int	The memory size of the instance after upgrade in MB
newDisksize	int	The disk capacity of the instance after upgrade in GB
oldMemsize	int	The memory size of the instance before upgrade in MB
oldDisksize	int	The disk capacity of the instance before upgrade in GB
SerialIds	Array	The array of instance IDs

## 4. Error Codes

The following lists the error codes related to this API.

Error Code	Error Message	Error Description
11201	InvalidParameter	Invalid service parameter.

## 5. Samples

Input

```
https://mongodb.api.qcloud.com/v2/index.php?Action=DescribeMongoDbDealDetail
&<Common request parameter>
&dealIds.0=3373037
&dealIds.1=3374462
&dealIds.2=3374558
```

Output

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "details": [
    {
      "dealId": "3373037",
      "dealName": "20170206121420",
      "zoneId": 100002,
      "goodsNum": 1,
      "creator": "3374998458",
      "creatTime": "2017-02-06 14:07:46",
      "overdueTime": "2017-02-21 14:07:46",
      "endTime": "2017-02-06 14:11:54",
      "status": 4,
      "price": 72200,
      "goodsDetail": {
        "memSize": 4096,
        "diskSize": 30,
```



```
"typeId": "GIO",
"clusterType": "ReplSet",
"secondaryNum": 2,
"zoneId": 100002,
"mongoVersion": "MONGO_3_MMAP",
"timeSpan": 1,
"timeUnit": "m",
"SerialIds": [
  "cmgo-6ozqe0uh"
]
},
{
  "dealId": "3374462",
  "dealName": "20170206124372",
  "zoneId": 100002,
  "goodsNum": 1,
  "creator": "3374998458",
  "creatTime": "2017-02-06 16:32:45",
  "overdueTime": "2017-02-21 16:32:45",
  "endTime": "2017-02-06 16:32:46",
  "status": 4,
  "price": 72200,
  "goodsDetail": {
    "curDeadline": "2017-03-06 14:07:46",
    "timeSpan": 1,
    "timeUnit": "m",
    "SerialIds": [
      "cmgo-6ozqe0uh"
    ]
  }
},
{
  "dealId": "3374558",
  "dealName": "20170206124575",
  "zoneId": 100002,
  "goodsNum": 1,
  "creator": "3374998458",
  "creatTime": "2017-02-06 16:43:17",
  "overdueTime": "2017-02-21 16:43:17",
  "endTime": "2017-02-06 16:45:49",
  "status": 4,
  "price": 142421,
  "goodsDetail": {
    "curDeadline": "2017-04-06 14:07:46",
    "newMemsize": 8192,
    "newDisksize": 60,
    "oldMemsize": 4096,
    "oldDisksize": 30,
    "SerialIds": [
      "cmgo-6ozqe0uh"
    ]
  }
}
]
```



# Query Instance List

Last updated : 2017-05-03 14:35:09

## 1. API Description

This API (DescribeMongoDBInstances) is used to query the list of replica set instances.

Domain for API request: [mongodb.api.qcloud.com](https://mongodb.api.qcloud.com)

## 2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see [Common Request Parameters](#) page. The Action field for this API is DescribeMongoDBInstances.

Parameter Name	Required	Type	Description
limit	Yes	Int	Length of a page. Maximum is 100
offset	Yes	Int	Current page number. Default is 0. For query APIs, a maximum number of returned records is generally set for a single query by default. To traverse all the resources, you need to use "limit" and "offset" for a paged query; For example, to query the 40 records between 110 and 149, you can set offset = 110 and limit = 40.
instanceIds	No	Array	One or more instance IDs (n represents array subscript starting with 0).
projectIds	No	Array	One or more project IDs (n represents array subscript starting with 0).
vips	No	Array	One or more virtual IPs (n represents array subscript starting with 0).
status	No	Array	One or more statuses (n represents array subscript starting with 0). Current status of instance. 0: To be initialized; 1: In process; 2: Running; -2: Isolated
instanceNames	No	Array	One or more instance names (n represents array subscript starting with 0).
vpcId	No	Int	This parameter is retained for historical reasons. It is recommended to use the following parameter unVpcId (VPC ID) .
subnetId	No	Int	This parameter is retained for historical reasons. It is recommended to use the following parameter unSubnetId (Subnet ID under VPC).
unVpcId	No	String	VPC ID. If it is left empty, the default is basic network. This value is subject to the unVpcId returned by API <a href="#">Query VPC List</a> , such as: vpc-kd7d06of
unSubnetId	No	String	Subnet ID. Under VPC, the value is subject to the unSubnetId returned by the API <a href="#">Query Subnet List</a> , such as subnet-3lzkspo

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see <a href="#">Common Error Codes</a> on the Error Codes page.
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
totalCount	Int	Total number of instances
data	Object	Details of instance list

Parameter data indicates the details of instance list, and is composed as follows:

Parameter Name	Type	Description
data.mongodbSet	Array	An array of instance details

Parameter mongodbSet indicates an array of instance details, and is composed as follows:

Parameter Name	Type	Description
zoneId	Int	Availability zone ID
instanceId	String	Instance ID
instanceName	String	Instance name
projectId	Int	ID of project to which the instance belongs
vpcId	Int	VPC ID (not recommended)
unVpcId	String	VPC ID (recommended)
subnetId	Int	Subnet ID under VPC (not recommended)
unSubnetId	String	Subnet ID under VPC (recommended)
status	Int	Current status of instance. 0: To be initialized; 1: In process; 2: Running; -2: Isolated
statusDesc	String	Description of instance status
vip	Int	Virtual IP of instance
vport	Int	Port number of instance
createTime	String	Creation time of instance
deadline	String	Expiration time of instance

Parameter Name	Type	Description	
typeld	String	Name of instance type	For example, GIO: High IO; TGIO: High IO (10 GB)
version	String	Database version number, for example: MONGO_3_MMAP, MONGO_3_WT	
memSize	Int	Memory size of instance (in MB)	
diskSize	Int	Disk capacity of instance (in GB)	
diskusedCapacity	Int	Actually used capacity of disk of instance (in MB)	
nodenum	Int	Number of nodes of replica set	
autoRenewFlag	Int	Auto renewal flag set for the instance: 0 - Do not set auto renewal; a notification will be given upon expiration of instance; 1 - Set auto renewal; instance will be automatically renewed upon expiration; 2 - Neither renewal nor notification will be made upon the expiration of instance	

## 4. Error Codes

The following error codes include the business logic error codes for this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Incorrect business parameter

## 5. Example

```

https://mongodb.api.qcloud.com/v2/index.php?Action=DescribeMongoDBInstances
&<Common Request Parameters>
&limit=10
&offset=0

```

The returned results are as below:

```

{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "totalCount": 10,
  "data": {
    "mongodbSet": [
      {
        "zoneld": 300001,

```

```
"instanceId": "cmgo-mmifbo25",
"instanceName": "cmgo-mmifbo25",
"projectId": 0,
"vpId": 0,
"unVpId": null,
"subnetId": 0,
"unSubnetId": null,
"status": 2,
"statusDesc": "Running",
"vip": "10.66.187.159",
"vport": 27017,
"createTime": "2016-11-09 10:54:47",
"deadline": "2016-12-09 10:54:47",
"typeId": "GIO",
"version": "MONGO_3_MMAP",
"memSize": 2048,
"diskSize": 30,
"diskUsedCapacity": 3398,
"nodeNum": 2,
"autoRenewFlag": 0
},
{
"zoneId": 800001,
"instanceId": "cmgo-2njfb6z1",
"instanceName": "cmgo-2njfb6z1",
"projectId": 0,
"vpId": 4864,
"unVpId": "vpc-j5yvvkul",
"subnetId": 14158,
"unSubnetId": "subnet-py2q60ty",
"status": 2,
"statusDesc": "Running",
"vip": "10.66.194.3",
"vport": 27017,
"createTime": "2016-12-23 19:19:27",
"deadline": "2017-02-23 19:19:27",
"typeId": "CY",
"version": "MONGO_3_MMAP",
"memSize": 4096,
"diskSize": 60,
"diskUsedCapacity": 8476,
"nodeNum": 2,
"autoRenewFlag": 0
},
{
"zoneId": 100002,
"instanceId": "cmgo-6ozqe0uh",
"instanceName": "test_API",
"projectId": 10,
"vpId": 4864,
"unVpId": "vpc-j5yvvkul",
"subnetId": 14158,
"unSubnetId": "subnet-py2q60ty",
"status": 2,
"statusDesc": "Running",
"vip": "10.66.168.6",
```

```
"vport": 27017,  
"createtime": "2017-02-06 14:07:46",  
"deadline": "2017-04-06 14:07:46",  
"typeld": "GIO",  
"version": "MONGO_3_MMAP",  
"memSize": 8192,  
"diskSize": 60,  
"diskusedCapacity": 6206,  
"nodenum": 3,  
"autoRenewFlag": 1  
}  
]  
}  
}
```

# Set Auto-Renewal

Last updated : 2017-05-03 14:34:57

## 1. API Description

This API (SetMongoDBAutoRenew) is used to set auto renewal for an instance.

Domain for API request: [mongodb.api.qcloud.com](https://mongodb.api.qcloud.com)

## 2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see [Common Request Parameters](#) page. The Action field for this API is SetMongoDBAutoRenew.

Parameter Name	Required	Type	Description
instancelds.n	Yes	String	One or more instance IDs (n represents array subscript starting with 0). This can be obtained from instanceld in the returned values of API <a href="#">DescribeMongoDBInstances</a> .
isAutoRenew	Yes	Int	Set auto renewal flag: 0 - Do not set auto renewal; a notification will be given upon expiration of instance; 1 - Set auto renewal; instance will be automatically renewed upon expiration; 2 - Neither renewal nor notification will be made upon the expiration of instance

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see <a href="#">Common Error Codes</a> on the Error Codes page.
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.

## 4. Error Codes

The following error codes include the business logic error codes for this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Incorrect business parameter
10716	NoInstancelds	Array of requested instance IDs is empty



Error Code	Error Message	Error Description
11056	InstanceNotExists	Instance does not exist
11051	InstanceDeleted	The instance has been reclaimed upon expiration

## 5. Example

### Input

```
https://mongodb.api.qcloud.com/v2/index.php?Action=SetMongoDBAutoRenew
&<Common Request Parameters>
&instanceIds.0=cmgo-6ozqe0uh
&isAutoRenew=1
```

### Output

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

# Resetting Instance Password

Last updated : 2019-09-18 15:29:36

## 1. API Description

This API (ResetMongoDBPassword) is used to reset the password for an instance.

API domain name: **mongodb.api.qcloud.com**.

Password rule: It can only contain 8-16 characters and must contain at least two of the following types of characters: letters, digits, and special characters (!@#%^()).

## 2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see [Common Request Parameters](#). The Action field of this API is ResetMongoDBPassword.

Parameter Name	Required	Type	Description
instanceId	Yes	String	The ID of the instance to be operated on, which can be obtained from the <code>instanceId</code> field in the return value of the <a href="#">DescribeMongoDBInstances API</a> .
password	Yes	String	The new password for the instance. It can only contain 8-16 characters and must contain at least two of the following types of characters: letters, digits, and special characters (!@#%^())

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code. 0: success; other values: failure. For more information, see <a href="#">Common Error Codes</a> .
message	String	Error message. A null value indicates a success
codeDesc	String	Description of the action status. When the action has succeeded, "Success" is returned. When the action has failed, a message describing the cause of the error is returned.
data	Object	The ID of the task

`data` indicates the ID of the task and is composed as follows:

Parameter Name	Type	Description
data.jobId	Int	The ID of the task, which can be used to query the task execution condition through the <a href="#">GetMongoDBJobInfo API</a>

## 4. Error Codes

The following lists the error codes related to this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Invalid service parameter.
11056	InstanceNotExists	No corresponding instance was found.
11057	InstanceBeenLocked	Unable to execute operation because the instance is locked by another process
10702	InstanceStatusAbnormal	Unable to execute operation due to an abnormal instance status. For example, the instance's status is "in process" or "isolated" or "deleted"
11059	PasswordRuleError	Password rule error. Passwords can only contain 8-16 characters and must contain at least two of the following types of characters: letters, digits, and special characters (!@#%^*())

## 5. Samples

```
https://mongodb.api.qcloud.com/v2/index.php?Action=ResetMongoDBPassword
&<Common request parameter>
&instanceId=cmgo-6ozqe0uh
&password=12D3E@!r5ed
```

Below is a sample return:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "jobId": 73605
  }
}
```

# Renaming Projects

Last updated : 2019-09-19 17:16:45

## 1. API Description

This API (ModifyMongoDBProject) is used to modify the project to which an instance belongs.

API domain name: **mongodb.api.qcloud.com**.

## 2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see [Common Request Parameters](#). The Action field of this API is ModifyMongoDBProject.

Parameter Name	Required	Type	Description
instanceIds.n	No	String	One or more instance IDs. n represents an array subscript starting from 0. Instance ID can be obtained from the <code>instanceId</code> field in the return value of the <a href="#">DescribeMongoDBInstances API</a> .
projectId	Yes	Int	Project ID. The value is subject to the <code>projectId</code> returned by User Account > User Account API Query > Project List

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code. 0: success; other values: failure. For more information, see <a href="#">Common Error Codes</a> .
message	String	Error message. A null value indicates a success
codeDesc	String	Description of the action status. When the action has succeeded, "Success" is returned. When the action has failed, a message describing the cause of the error is returned.

## 4. Error Codes

The following lists the error codes related to this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Invalid service parameter.
11056	InstanceNotExists	No corresponding instance was found.
11057	InstanceBeenLocked	Unable to execute operation because the instance is locked by another process

Error Code	Error Message	Error Description
10702	InstanceStatusAbnormal	Unable to execute operation due to an abnormal instance status. For example, the instance's status is "in process" or "isolated" or "deleted"

## 5. Samples

```
https://mongodb.api.qcloud.com/v2/index.php?Action=ModifyMongoDBProject
  &<Common request parameter>
  &instanceIds.0=cmgo-6ozqe0uh
  &projectId=1001
```

Below is a sample return:

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

# Renaming Instances

Last updated : 2019-09-18 15:28:51

## 1. API Description

This API (ModifyMongoDBName) is used to rename an instance.

API domain name: **mongodb.api.qcloud.com**.

Instance name rule: It can contain 1-36 letters, digits, English punctuation marks, `_` or `-`

## 2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see [Common Request Parameters](#). The Action field of this API is ModifyMongoDBName.

Parameter Name	Required	Type	Description
instanceId	Yes	String	The ID of the instance to be operated on, which can be obtained from the <code>instanceId</code> field in the return value of the <a href="#">DescribeMongoDBInstances API</a> .
instanceName	Yes	String	The name of the instance. It can contain 1-36 letters, digits, English punctuation marks, <code>_</code> or <code>-</code>

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code. 0: success; other values: failure. For more information, see <a href="#">Common Error Codes</a> .
message	String	Error message. A null value indicates a success
codeDesc	String	Description of the action status. When the action has succeeded, "Success" is returned. When the action has failed, a message describing the cause of the error is returned.

## 4. Error Codes

The following lists the error codes related to this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Invalid service parameter.
11056	InstanceNotExists	No corresponding instance was found.
11051	InstanceDeleted	The instance has been repossessed upon expiration.

Error Code	Error Message	Error Description
11052	Instanceloaded	The instance has been isolated upon expiration.
11054	InstanceNameExceedMaxLimit	The instance name length exceeds the upper limit.
11055	InstanceNameRuleError	The instance name is in the incorrect format. It can only contain 1-36 letters, digits, English punctuation marks, _ or -

## 5. Samples

```
https://mongodb.api.qcloud.com/v2/index.php?Action=ModifyMongoDBName
&<Common request parameter>
&instanceId=cmgo-6ozqe0uh
&instanceName=test_API
```

Below is a sample return:

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

# Querying Task Results

Last updated : 2019-09-18 15:28:29

## 1. API Description

This API (GetMongoDBJobInfo) is used to query the execution status of a task.

API domain name: **mongodb.api.qcloud.com**.

## 2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see [Common Request Parameters](#). The Action field of this API is `GetMongoDBJobInfo`.

Parameter Name	Required	Type	Description
jobId	Yes	String	The task ID returned when the task is executed

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code. 0: success; other values: failure. For more information, see <a href="#">Common Error Codes</a> .
message	String	Error message. A null value indicates a success
codeDesc	String	Description of the action status. When the action has succeeded, "Success" is returned. When the action has failed, a message describing the cause of the error is returned.
data	Object	The execution result of the task

`data` indicates the task execution result and is composed as follows:

Parameter Name	Type	Description
data.status	Int	Task status. 0: to be executed; 1: executing, 2: succeeded; 3: failed; -1: execution error

## 4. Error Codes

The following lists the error codes related to this API.

Error Code	Error Message	Error Description
11050	InvalidParameter	Invalid service parameter.



## 5. Samples

```
https://mongodb.api.qcloud.com/v2/index.php?Action=GetMongoDBJobInfo
&<Common request parameter>
&jobId=11963
```

Below is a sample return:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "status": 2
  }
}
```