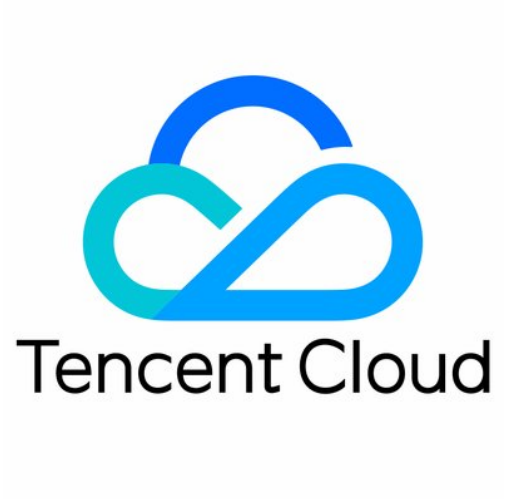
TencentDB for MongoDB

API Documentation

Product Documentation



Contents

API Documentation History

Last updated：2023-04-06 10:26:16

Release 14

Release time: 2023-04-06 10:18:55

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeDBInstances
  - **Modified input parameters:**Tags

Release 13

Release time: 2023-03-20 10:54:14

Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateDBInstanceHour
  - New input parameters:ReadonlyNodeNum, ReadonlyNodeAvailabilityZoneList, HiddenZone

Release 12

Release time: 2023-03-08 11:38:20

Release updates:

Improvement to existing documentation.

Deleted APIs:

- DescribeBackupAccess

Modified APIs:

- CreateDBInstance
  - New input parameters:ReadonlyNodeNum, ReadonlyNodeAvailabilityZoneList, HiddenZone
- InquirePriceCreateDBInstances
  - New input parameters:InstanceChargeType, MongosCpu, MongosMemory, MongosNum, ConfigServerCpu, ConfigServerMemory, ConfigServerVolume
  - **Modified input parameters:**Period

Deleted data structures:

- BackupFile

Modified data structures:

- InstanceDetail
  - New members:MongosNodeNum, MongosMemory, MongosCpuNum, ConfigServerNodeNum, ConfigServerMemory, ConfigServerVolume, ConfigServerCpuNum, ReadonlyNodeNum

Release 11

Release time: 2022-06-15 16:11:13

Release updates:

Improvement to existing documentation.

Modified data structures:

- SpecificationInfo
  - New members:SupportMultiAZ

Release 10

Release time: 2022-04-20 15:18:54

Release updates:

Improvement to existing documentation.

New APIs:

- ModifyDBInstanceNetworkAddress

New data structures:

- ModifyNetworkAddress

Release 9

Release time: 2022-03-15 11:19:31

Release updates:

Improvement to existing documentation.

New APIs:

- ModifyDBInstanceSecurityGroup

Modified APIs:

- InquirePriceModifyDBInstanceSpec
  - New input parameters:NodeNum, ReplicateSetNum

Modified data structures:

- BackupDownloadTask
  - New members:BackupMethod, BackupDesc

Release 8

Release time: 2021-12-31 10:18:36

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeInstanceParams

New data structures:

- InstanceEnumParam
- InstanceIntegerParam
- InstanceMultiParam
- InstanceTextParam

Modified data structures:

- ClientConnection
  - New members:InternalService

Release 7

Release time: 2021-10-22 15:22:51

Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateDBInstance
  - New input parameters:RestoreTime, InstanceName, AvailabilityZoneList, MongosCpu, MongosMemory, MongosNodeNum
- CreateDBInstanceHour
  - New input parameters:RestoreTime, InstanceName, AvailabilityZoneList, MongosCpu, MongosMemory, MongosNodeNum

Release 6

Release time: 2021-09-03 17:12:40

Release updates:

Improvement to existing documentation.

Modified APIs:

- ModifyDBInstanceSpec
  - New input parameters:NodeNum, ReplicateSetNum, InMaintenance

Release 5

Release time: 2021-05-28 17:44:19

Release updates:

Improvement to existing documentation.

Modified data structures:

- SecurityGroupBound
  - New members:Id, AddressModule, ServiceModule, Desc

Release 4

Release time: 2021-05-25 19:18:45

Release updates:

Improvement to existing documentation.

New APIs:

- CreateBackupDownloadTask
- DescribeBackupDownloadTask
- DescribeSecurityGroup

New data structures:

- BackupDownloadTask
- BackupDownloadTaskStatus
- ReplicaSetInfo
- SecurityGroup
- SecurityGroupBound

Release 3

Release time: 2021-03-22 17:34:26

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeDBBackups
  - New input parameters:BackupMethod, Limit, Offset
- DescribeDBInstances
  - New input parameters:Tags
- DescribeSlowLogPatterns

  - New input parameters:Format
- DescribeSlowLogs
  - New input parameters:Format

Release 2

Release time: 2020-08-13 23:23:08

Release updates:

Improvement to existing documentation.

New APIs:

- CreateBackupDBInstance
- DescribeAsyncRequestInfo
- ResetDBInstancePassword

Existing Release

Release time: 2020-07-30 20:01:28

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- AssignProject
- CreateDBInstance
- CreateDBInstanceHour
- DescribeBackupAccess
- DescribeClientConnections
- DescribeDBBackups
- DescribeDBInstanceDeal
- DescribeDBInstances
- DescribeSlowLogPatterns
- DescribeSlowLogs
- DescribeSpecInfo
- FlushInstanceRouterConfig
- InquirePriceCreateDBInstances

- InquirePriceModifyDBInstanceSpec
- InquirePriceRenewDBInstances
- IsolateDBInstance
- ModifyDBInstanceSpec
- OfflineIsolatedDBInstance
- RenameInstance
- RenewDBInstances

Existing data structures:

- BackupFile
- BackupInfo
- ClientConnection
- DBInstanceInfo
- DBInstancePrice
- InstanceChargePrepaid
- InstanceDetail
- ShardInfo
- SlowLogPattern
- SpecItem
- SpecificationInfo
- TagInfo

Introduction

Last updated：2021-03-24 17:06:36

TencentDB for MongoDB is a high-performance NoSQL database built by Tencent Cloud based on MongoDB, a globally popular database program. Fully compatible with the MongoDB protocol, it provides stable and rich features for monitoring, management, elastic scaling and automatic disaster recovery, making it ideal for document database scenarios.

⚠ Note：

All MongoDB APIs in this section have been upgraded to API 3.0. Future MongoDBfeatures will also be added here. We recommend using API 3.0.

API Category

Last updated：2023-04-06 10:21:24

Instance APIs

API Name	Feature	Frequency Limit
AssignProject	Specifies the project to which a TencentDB instance belongs	20
CreateDBInstance	Creates a monthly subscription TencentDB instance	20
CreateDBInstanceHour	Creates a pay-as-you-go TencentDB instance	20
DescribeClientConnections	Queries client connection information of an instance	5
DescribeDBInstanceDeal	Gets order details of an instance	5
DescribeDBInstances	Queries the list of TencentDB instances	20
DescribeInstanceParams	Queries the modifiable parameter list	20
DescribeSecurityGroup	Queries the security groups associated with an instance	20
DescribeSlowLogPatterns	Gets slow log statistics	20
DescribeSpecInfo	Queries the specifications of purchasable TencentDB instances	10
InquirePriceCreateDBInstances	Queries price of instance creation	20
InquirePriceRenewDBInstances	Queries the renewal price of an instance	20
IsolateDBInstance	Isolates a TencentDB Instance	20
ModifyDBInstanceNetworkAddress	Modifies the network settings of TencentDB instances	20
ModifyDBInstanceSecurityGroup	Modifies the security groups associated with an instance	20
ModifyDBInstanceSpec	Adjusts the configurations of a TencentDB instance	20
OfflineIsolatedDBInstance	Deactivates isolated TencentDB instances	10

RenameInstance	Renames an instance	20
RenewDBInstances	Renews a TencentDB instance	20
DescribeSlowLogs	Gets slow log information	20
InquirePriceModifyDBInstanceSpec	Queries price of specification adjustment	20

Backup APIs

API Name	Feature	Frequency Limit
CreateBackupDBInstance	Creates instance backups	20
CreateBackupDownloadTask	Creates a backup download task	20
DescribeBackupDownloadTask	Queries backup download task information	20
DescribeDBBackups	Queries the list of instance backups	20

Account APIs

API Name	Feature	Frequency Limit
ResetDBInstancePassword	Modifies instance password	20

Other APIs

API Name	Feature	Frequency Limit
FlushInstanceRouterConfig	Flushes router configuration	20

Task APIs

API Name	Feature	Frequency Limit
DescribeAsyncRequestInfo	Queries async task status	20

Making API Requests
Request Structure

Last updated：2023-03-08 12:00:24

1. Service Address

The API supports access from either a nearby region (at mongodb.tencentcloudapi.com) or a specified region (at mongodb.ap-guangzhou.tencentcloudapi.com for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "mongodb.ap-guangzhou.tencentcloudapi.com".

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

Tencent Cloud currently supports the following regions:

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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

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

Common parameters for Signature Algorithm v3

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

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

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

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

Example of an HTTP GET request structure:

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

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

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

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

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

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

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

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

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

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

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

10
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

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

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

Example of an HTTP POST request structure:

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

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

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

Signature v3

Last updated：2020-09-10 18:04:41

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

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

	`[{"Values": ["unnamed"], "Name": "instance-name"}]` in this exampl The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the pay of the HTTP request, performing hexadecimal encoding, and finally converting the enco string to lowercase letters. For GET requests, `RequestPayload` is always an empt string. The calculation result in this example is `99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b49`

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

```
POST
/

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

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always `TC3-HMAC-SHA256`.
RequestTimestamp	Request timestamp, i.e., the value of the common parameter `X-TC-Timestamp` in request header, which is the UNIX timestamp of the current time in seconds, such as `1551113065` in this example.
CredentialScope	Scope of the credential in the format of `Date/service/tc3_request`, including date, requested service and termination string (tc3_request). **`Date` is a date in UT time, whose value should match the UTC date converted by the common parameter `X-TC-Timestamp`**; `service` is the product name, which should m the domain name of the product called. The calculation result in this example is `2019-02-25/cvm/tc3_request`.

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

Note:

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

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

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

3. Calculating the Signature

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

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

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

2) Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

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

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

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

// ************ Step 1: Concatenate the CanonicalRequest string ************
String httpRequestMethod = "POST";
```

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

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

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

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

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

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

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

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

Python

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

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

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

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

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

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


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

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

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

Golang

```
package main

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

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

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

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

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

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

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

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

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

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

PHP

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

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

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

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

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

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

Ruby

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

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

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

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

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

puts canonical_request

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

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

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

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

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

DotNet

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

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

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

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

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

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

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

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

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

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

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

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

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

NodeJS

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

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

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

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

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

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

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

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

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

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

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

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

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

C++

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

using namespace std;

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

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

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

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

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

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

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

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

```
return output;
}

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

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

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

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

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

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

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

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

Signature Failure

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

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

Signature

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

1. Applying for Security Credentials

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

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*******';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

Python

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

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time
import requests
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
def get_string_to_sign(method, endpoint, params):
s = method + endpoint + "/?"
query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
return s + query_str
def sign_str(key, s, method):
hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
return base64.b64encode(hmac_str)
```

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

Golang

```
package main
import (
"bytes"
"crypto/hmac"
"crypto/sha1"
"encoding/base64"
"fmt"
"sort"
)
func main() {
secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
params := map[string]string{
"Nonce": "11886",
"Timestamp": "1465185768",
"Region": "ap-guangzhou",
"SecretId": secretId,
"Version": "2017-03-12",
"Action": "DescribeInstances",
"InstanceIds.0": "ins-09dx96dg",
"Limit": "20",
"Offset": "0",
}
var buf bytes.Buffer
```

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

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$param["Nonce"] = 11886;//rand();
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;
ksort($param);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param as $key => $value ) {
$signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);
$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
```

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

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
'Action' => 'DescribeInstances',
'InstanceIds.0' => 'ins-09dx96dg',
'Limit' => 20,
'Nonce' => 11886,
'Offset' => 0,
'Region' => 'ap-guangzhou',
'SecretId' => secret_id,
'Timestamp' => 1465185768, # Time.now.to_i
'Version' => '2017-03-12',
}
sign = method + endpoint + '/?'
params = []
data.sort.each do |item|
params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sig
n))
puts data['Signature']
# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
```

```
# res = Net::HTTP.get_response(uri)
# puts res.body
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;
public class Application {
public static string Sign(string signKey, string secret)
{
string signRet = string.Empty;
using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
{
byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
signRet = Convert.ToBase64String(hash);
}
return signRet;
}
public static string MakeSignPlainText(SortedDictionary<string, string> requestPa
rams, string requestMethod, string requestHost, string requestPath)
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}
public static void Main(string[] args)
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
```

```
// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());
param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);
param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();
string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
```

NodeJS

```
const crypto = require('crypto');
function get_req_url(params, endpoint){
params['Signature'] = escape(params['Signature']);
const url_strParam = sort_params(params)
return "https://" + endpoint + "/?" + url_strParam.slice(1);
}
function formatSignString(reqMethod, endpoint, path, strParam){
```

```
let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
return strSign;
}
function sha1(secretKey, strsign){
let signMethodMap = {'HmacSHA1': "sha1"};
let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}
function sort_params(params){
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
//k = k.replace(/_/g, '.');
strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}
function main(){
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"
const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)
let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;
strParam = sort_params(params)
const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----------------------")
params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
```

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

Responses

Last updated：2020-03-04 23:46:32

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

Instance APIs
RenameInstance

Last updated：2023-03-20 10:55:13

1. API Description

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

This API is used to rename a TencentDB instance.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: RenameInstance.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB Console page
NewName	Yes	String	Custom name of the instance, which can contain up to 60 letters, digits, or symbols (_-)

3. Output Parameters

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

4. Example

Example1 Renaming a TencentDB instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=RenameInstance
&InstanceId=cmgo-eqmoa5sf
&NewName=test_name
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "8e2a339e-5ba9-4da3-8dc2-65a0a6314811"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.IllegalInstanceName	Invalid instance name
InvalidParameterValue.InstanceHasBeenDeleted	The instance has been deleted.
InvalidParameterValue.InstanceHasBeenIsolated	The instance has been isolated.
InvalidParameterValue.NotFoundInstance	The instance was not found.

OfflineIsolatedDBInstance

Last updated：2023-03-20 10:55:13

1. API Description

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

This API is used to deactivate isolated TencentDB instances immediately. The instances must be in isolated status.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: OfflineIsolatedDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB Console page

3. Output Parameters

Parameter Name	Type	Description
AsyncRequestId	String	Async task request ID, which can be used to query the execution result of an

		async task.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Eliminating an isolated TencentDB instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=OfflineIsolatedDBInstance
&InstanceId=cmgo-f555zzzz
&<Common request parameters>
```

Output Example

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

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.IllegalStatusToOffline	The instance cannot be deactivated in the current status. Only isolated instances can be deactivated.
InvalidParameterValue.InstanceHasBeenDeleted	The instance has been deleted.
InvalidParameterValue.LockFailed	Instance lock failed.
InvalidParameterValue.NotFoundInstance	The instance was not found.

ModifyDBInstanceSpec

Last updated：2023-03-20 10:55:13

1. API Description

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

This API is used to adjust the specification configuration of a TencentDB for MongoDB. The purchasable specifications supported by the API can be obtained through the DescribeSpecInfo API.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDBInstanceSpec.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB Console page
Memory	Yes	Integer	Memory size after instance configuration change in GB. Memory and disk must be upgraded or degraded simultaneously
Volume	Yes	Integer	Disk size after instance configuration change in GB. Memory and disk must be upgraded or degraded simultaneously. For degradation, the new disk capacity must be greater than 1.2 times the used disk capacity

OplogSize	No	Integer	Oplog size after instance configuration change in GB, which ranges from 10% to 90% of the disk capacity and is 10% of the disk capacity by default
NodeNum	No	Integer	Node quantity after configuration modification. The value range is subject to the response parameter of the `DescribeSpecInfo` API. If this parameter is left empty, the node quantity remains unchanged.
ReplicateSetNum	No	Integer	Shard quantity after configuration modification, which can only be increased rather than decreased. The value range is subject to the response parameter of the `DescribeSpecInfo` API. If this parameter is left empty, the shard quantity remains unchanged.
InMaintenance	No	Integer	Switch time. Valid values: `0` (upon modification completion), `1` (during maintenance time). Default value: `0`. If the quantity of nodes or shards is modified, the value will be `0`.

3. Output Parameters

Parameter Name	Type	Description
DealId	String	Order ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adjusting the configurations of a TencentDB instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=ModifyDBInstanceSpec
&InstanceId=cmgo-p8vnipr5
&Memory=4
&Volume=250
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d88095e5-50e8-4245-a0cf-993a536f9b20",
"DealId": "7142863"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter.ZoneClosed	Instances are not purchasable in this AZ.
InvalidParameterValue.InvalidTradeOperation	Billing error. Corresponding purchase/renewal/configuration change operations are not allowed for the current instance.
InvalidParameterValue.ModifyModeError	Memory and disk must be upgraded or degraded

	simultaneously.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.OplogSizeOutOfRange	The `OplogSize` parameter is set incorrectly and should be between 10% and 90% of the disk capacity.
InvalidParameterValue.SetDiskLessThanUsed	The disk size to be set cannot be less than 1.2 times the used disk capacity.
InvalidParameterValue.SpecNotOnSale	Incorrect purchasable specification.
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.

IsolateDBInstance

Last updated：2023-03-20 10:55:14

1. API Description

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

This API is used to isolate a pay-as-you-go TencentDB for MongoDB instance. An isolated instance is retained in the recycle bin and data can no longer be written to it. After it is isolated for a certain period of time, it will be completely deleted. For the retention period in the recycle bin, please see the terms of service for pay-as-you-go billing. Isolated pay-as-you-go instances cannot be recovered, so please proceed with caution.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: IsolateDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB Console page

3. Output Parameters

Parameter Name	Type	Description
AsyncRequestId	String	Async task request ID, which can be used to query the execution result of an async task.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Terminating a pay-as-you-go TencentDB instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=IsolateDBInstance
&InstanceId=cmgo-f555zzzz
&<Common request parameters>
```

Output Example

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

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.InstanceHasBeenDeleted	The instance has been deleted.
InvalidParameterValue.InstanceHasBeenIsolated	The instance has been isolated.
InvalidParameterValue.LockFailed	Instance lock failed.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.PrePaidInstanceUnableToIsolate	Prepaid instances cannot be terminated.

DescribeSpecInfo

Last updated：2023-03-20 10:55:15

1. API Description

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

This API is used to query the purchasable instance specifications.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSpecInfo.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
Zone	No	String	AZ to be queried

3. Output Parameters

Parameter Name	Type	Description
SpecInfoList	Array of SpecificationInfo	List of purchasable instance specifications

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

4. Example

Example1 Querying a purchasable instance

Input Example

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

{
"Zone": "xx"
}
```

Output Example

```
{
"Response": {
"RequestId": "a8c7ade4-2d22-4f5e-9e71-f546f15e6d67",
"SpecInfoList": [
{
"Region": "ap-guangzhou",
"SpecItems": [
{
"ClusterType": 0,
"Conns": 1500,
"Cpu": 2,
"DefaultStorage": 25600,
"EngineName": "WiredTiger",
"MachineType": "HIO10G",
"MaxNodeNum": 3,
"MaxReplicateSetNodeNum": 5,
"MaxReplicateSetNum": 20,
"MaxStorage": 512000,
"Memory": 4096,
"MinNodeNum": 3,
"MinReplicateSetNodeNum": 3,
"MinReplicateSetNum": 2,
"MinStorage": 102400,
```

```
"MongoVersionCode": "MONGO_36_WT",
"MongoVersionValue": 4,
"Qps": 5000,
"SpecCode": "mongo.HIO10G.4g",
"Status": 1,
"Version": "3.6"
},
{
"ClusterType": 0,
"Conns": 1500,
"Cpu": 2,
"DefaultStorage": 25600,
"EngineName": "WiredTiger",
"MachineType": "HIO10G",
"MaxNodeNum": 3,
"MaxReplicateSetNodeNum": 5,
"MaxReplicateSetNum": 20,
"MaxStorage": 512000,
"Memory": 4096,
"MinNodeNum": 3,
"MinReplicateSetNodeNum": 3,
"MinReplicateSetNum": 2,
"MinStorage": 102400,
"MongoVersionCode": "MONGO_3_WT",
"MongoVersionValue": 2,
"Qps": 5000,
"SpecCode": "mongo.HIO10G.4g",
"Status": 1,
"Version": "3.2"
},
{
"ClusterType": 1,
"Conns": 15000,
"Cpu": 48,
"DefaultStorage": 4096000,
"EngineName": "WiredTiger",
"MachineType": "HIO10G",
"MaxNodeNum": 3,
"MaxReplicateSetNodeNum": 5,
"MaxReplicateSetNum": 20,
"MaxStorage": 6144000,
"Memory": 524288,
"MinNodeNum": 3,
"MinReplicateSetNodeNum": 3,
"MinReplicateSetNum": 2,
"MinStorage": 1536000,
"MongoVersionCode": "MONGO_36_WT",
```

```
"MongoVersionValue": 4,
"Qps": 42000,
"SpecCode": "mongo.HIO10G.512g",
"Status": 1,
"Version": "3.6"
}
],
"Zone": "ap-guangzhou-3"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.

InvalidParameterValue.RegionError	Invalid region
InvalidParameterValue.ZoneError	Invalid availability zone

DescribeDBInstances

Last updated：2023-04-06 10:21:25

1. API Description

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

This API is used to query the list of TencentDB instances (which can be primary, disaster recovery, or read-only instances). It supports filtering instances by project ID, instance ID, and instance status.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	No	Array of String	List of instance IDs in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB console page.
InstanceType	No	Integer	Instance type. Valid values: • `0` : All instances. • `1` : Regular instances. • `2` : Temp instances. • `3` : Read-only instances.

			• `-1` : Regular instances, read-only instances, disaster recovery instances.
ClusterType	No	Integer	Cluster type. Valid values: • `0` : Replica set instances. • `1` : Sharded cluster instances. • `-1` : All instances.
Status.N	No	Array of Integer	Instance status. Valid values: • `0` : To be initialized. • `1` : In process. • `2` : Valid. • `-2` : Isolated (for monthly subscribed instances). • `-3` : Isolated (for pay-as-you-go instances).
VpcId	No	String	VPC ID. This parameter can be left empty for the classic network.
SubnetId	No	String	Subnet ID of VPC. This parameter can be left empty for the classic network. If it is passed in as an input parameter, the corresponding VpcId must be set.
PayMode	No	Integer	Billing type. Valid value: 0 (pay-as-you-go)
Limit	No	Integer	Number of results returned per request. Default value: `20` . Value range: [1,100].
Offset	No	Integer	Offset. Default value: `0` .
OrderBy	No	String	Sort by field of the returned result set. Valid values: `ProjectId` , `InstanceName` , `CreateTime` . The return results are sorted in ascending order by default.
OrderByType	No	String	Sorting method of the return result set. Valid values: `ASC` , `DESC` .
ProjectIds.N	No	Array of Integer	Project ID
SearchKey	No	String	Search keyword, which can be instance ID, instance name, or complete IP.
Tags.N	No	Array	Tag information

		of TagInfo	

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances
InstanceDetails	Array of InstanceDetail	List of instance details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of instances

This example shows you how to query the list of instances.

Input Example

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

{
"Status": [
0
],
"OrderBy": "xx",
"InstanceIds": [
"xx"
],
"VpcId": "xx",
"Tags": [
{
"TagKey": "xx",
"TagValue": "xx"
```

```
}
],
"ClusterType": 0,
"PayMode": 0,
"Limit": 1,
"SearchKey": "xx",
"Offset": 1,
"SubnetId": "xx",
"OrderByType": "xx",
"InstanceType": 0,
"ProjectIds": [
1
]
}
```

Output Example

```
{
"Response": {
"TotalCount": 1,
"RequestId": "xx",
"InstanceDetails": [
{
"ConfigServerMemory": 1,
"Zone": "xx",
"MongosNodeNum": 1,
"ReadonlyInstances": [
{
"InstanceId": "xx",
"Region": "xx"
}
],
"RelatedInstance": "xx",
"AutoRenewFlag": 0,
"DeadLine": "2020-09-22 00:00:00",
"Memory": 1,
"StandbyInstances": [
{
"InstanceId": "xx",
"Region": "xx"
}
],
"InstanceVer": 1,
"MaintenanceStart": "xx",
"RealInstanceId": "xx",
"CpuNum": 1,
```

```
"MaintenanceEnd": "xx",
"VpcId": "xx",
"CloneInstances": [
{
"InstanceId": "xx",
"Region": "xx"
}
],
"InstanceId": "xx",
"ConfigServerCpuNum": 1,
"Volume": 1,
"SecondaryNum": 1,
"NetType": 1,
"MongoVersion": "xx",
"ReplicationSetNum": 1,
"ReplicaSets": [
{
"UsedVolume": 0.0,
"ReplicaSetId": "xx",
"Volume": 1,
"SecondaryNum": 1,
"OplogSize": 1,
"Memory": 1,
"ReplicaSetName": "xx",
"RealReplicaSetId": "xx"
}
],
"InstanceType": 1,
"Status": 1,
"ProjectId": 1,
"ClusterType": 1,
"PayMode": 1,
"SubnetId": "xx",
"ClusterVer": 1,
"MongosCpuNum": 1,
"ReadonlyNodeNum": 1,
"Protocol": 1,
"InstanceName": "xx",
"MongosMemory": 1,
"MachineType": "xx",
"InstanceStatusDesc": "xx",
"Tags": [
{
"TagKey": "xx",
"TagValue": "xx"
}
],
```

```
"UsedVolume": 1,
"Vip": "xx",
"ConfigServerVolume": 1,
"Region": "xx",
"ConfigServerNodeNum": 1,
"Vport": 1,
"CreateTime": "2020-09-22 00:00:00"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.

InvalidParameterValue.IllegalInstanceStatus	Invalid instance status
InvalidParameterValue.RegionError	Invalid region
InvalidParameterValue.VpcIdOrSubnetIdNotFound	The VPC (subnet) was not found.
InvalidParameterValue.ZoneError	Invalid availability zone
UnsupportedOperation	Unsupported operation

DescribeClientConnections

Last updated：2023-03-20 10:55:17

1. API Description

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

This API is used to query the client connection information of an instance, including the IP and number of connections. Currently, only instances of MongoDB 3.2 are supported.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeClientConnections.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB Console page
Limit	No	Integer	Number of results to be returned for a single request. Value range: 1-1,000. Default value: 1,000
Offset	No	Integer	Offset. Default value: 0.

3. Output Parameters

Parameter Name	Type	Description
Clients	Array of ClientConnection	Client connection information, including client IP and number of connections
TotalCount	Integer	The total number of records that meet the query condition, which can be used for paginated queries.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the client connections of a TencentDB instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=DescribeClientConnections
&InstanceId=cmgo-eqmoaxxx
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TotalCount": 1,
"Clients": [
{
"Count": 1,
"IP": "xx",
"InternalService": true
},
{
"Count": 1,
"IP": "xx",
"InternalService": true
}
],
"RequestId": "xx"
```

```
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.MongoVersionNotSupportQueryClient	The instance version does not support querying the instance client information.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.ProxyNotSupportQueryClient	The proxy version does not support querying the instance client information. Please submit a ticket for upgrade.
InvalidParameterValue.RegionNotSupportQueryClient	The region does not support querying the

	instance client information.

CreateDBInstanceHour

Last updated：2023-03-20 10:55:17

1. API Description

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

This API is used to create a pay-as-you-go TencentDB for MongoDB instance.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateDBInstanceHour.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
Memory	Yes	Integer	Instance memory size in GB
Volume	Yes	Integer	Instance disk size in GB
ReplicateSetNum	Yes	Integer	Number of replica sets - Number of the replica set instances to be created. Valid value: `1` . - Number of sharded cluster instances to be created. You can get the specific purchasable

			specifications through the DescribeSpecInfo API.
NodeNum	Yes	Integer	The number of nodes in each replica set. You can get the specific purchasable specifications through the DescribeSpecInfo API.
MongoVersion	Yes	String	Version information. You can get the specific purchasable specifications through the DescribeSpecInfo API. - MONGO_36_WT：MongoDB 3.6 WiredTiger storage engine - MONGO_40_WT：MongoDB 4.0 WiredTiger storage engine - MONGO_42_WT：MongoDB 4.2 WiredTiger storage engine - MONGO_44_WT：MongoDB 4.4 WiredTiger storage engine
MachineCode	Yes	String	Machine type - HIO: High IO - HIO10G: 10-Gigabit high IO
GoodsNum	Yes	Integer	Number of instances. Value range: 1-10.
Zone	Yes	String	AZ information in the format of ap-guangzhou-2 - For more information, query through the DescribeSpecInfo API. - If multi-AZ deployment is enabled, this parameter refers to the primary AZ and must be one of the values of `AvailabilityZoneList`.
ClusterType	Yes	String	Instance architecture type - REPLSET: Replica set - SHARD: Sharded cluster
VpcId	No	String	VPC ID
SubnetId	No	String	VPC subnet ID. If `VpcId` is set, then `SubnetId` will be required.
Password	No	String	Instance password - If it is left empty, the password is in the default format of "instance ID+@+root

			account UIN". For example, if the instance ID is "cmgo-higv73ed" and the root account UIN "100000001", the instance password will be "cmgo-higv73ed@100000001". - The custom password must contain 8-32 characters in at least two of the following types: letters, digits, and symbols (!@#%^*()_).
ProjectId	No	Integer	Project ID. If it is left empty, `Default project` will be used.
Tags.N	No	Array of TagInfo	Instance tag information
Clone	No	Integer	Instance type. Valid values: - `1` : Primary instance - `3` : Read-only instance - `4` : Disaster recovery instance
Father	No	String	Parent instance ID. It is required if the `Clone` is `3` or `4` , that is, read-only instance or disaster recovery instance
SecurityGroup.N	No	Array of String	Security group
RestoreTime	No	String	Rollback time of the cloned instance - This parameter is required for a cloned instance in the format of 2021-08-13 16:30:00. - Time range for rollback: You can roll back data in the last 7 days.
InstanceName	No	String	Instance name, which can contain up to 60 letters, digits, and symbols (_-).
AvailabilityZoneList.N	No	Array of String	List of multi-AZ deployed nodes. For more information, query through the DescribeSpecInfo API. - Nodes of a multi-AZ instance must be deployed across three AZs. Most nodes of the cluster can't be deployed in the same AZ. For example, a three-node sharded cluster instance does not support deploying two or

			more nodes in the same AZ. - MongoDB 4.2 and later versions do not support multi-AZ deployment. - Read-only and disaster recovery instances do not support multi-AZ deployment. -Instances in the classic network do not support multi-AZ deployment.
MongosCpu	No	Integer	Number of Mongos CPU cores - This parameter is not required for a sharded cluster instance of MongoDB 3.6 WiredTiger or later. - If this parameter is not configured, the mongos specification will be configured based on the mongod specification, and the default specification is free of charge.
MongosMemory	No	Integer	Mongos memory size - This parameter is not required for a sharded cluster instance of MongoDB 3.6 WiredTiger or later. - If this parameter is not configured, the mongos specification will be configured based on the mongod specification, and the default specification is free of charge.
MongosNodeNum	No	Integer	Number of Monogs - This parameter is not required for a sharded cluster instance of MongoDB 3.6 WiredTiger or later. - If this parameter is not configured, the mongos specification will be configured based on the mongod specification, and the default specification is free of charge.
ReadonlyNodeNum	No	Integer	Number of read-only nodes. Value range: 0-5.
ReadonlyNodeAvailabilityZoneList.N	No	Array of String	AZ of read-only nodes, which is required when `ReadonlyNodeNum` is not `0` in cross-AZ instance deployment.
HiddenZone	No	String	AZ where the hidden node resides, which is required in cross-AZ instance deployment.

3. Output Parameters

Parameter Name	Type	Description
DealId	String	Order ID
InstanceIds	Array of String	List of IDs of the created instances
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a pay-as-you-go TencentDB instance

This example shows you how to create a v4.0 instance. To create instances on other versions, you need to specify the version as instructed in the input parameter description.

Input Example

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

{
"Zone": "ap-guangzhou-3",
"GoodsNum": "1",
"Clone": "1",
"Memory": "4",
"ClusterType": "REPLSET",
"Volume": "250",
"NodeNum": "2",
"ReplicateSetNum": "1",
"MachineCode": "HIO10G",
"MongoVersion": "MONGO_40_WT"
}
```

Output Example

```
{
"Response": {
"RequestId": "eaf9b19d-5ad4-4ca2-9fc4-a319aeb9181f",
"DealId": "20190709160000003502416120946732",
"InstanceIds": [
"cmgo-m26c6jsf"
]
}
}
```


5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.

InvalidParameterValue.ClusterTypeError	Invalid instance type.
InvalidParameterValue.InvalidTradeOperation	Billing error. Corresponding purchase/renewal/configuration change operations are not allowed for the current instance.
InvalidParameterValue.MachineTypeError	Incorrect model.
InvalidParameterValue.MongoVersionError	The instance version is incorrect.
InvalidParameterValue.PasswordRuleFailed	The password is non-compliant.
InvalidParameterValue.PostPaidInstanceBeyondLimit	The number of postpaid instances in a single region exceeds the limit.
InvalidParameterValue.ProjectNotFound	The project does not exist.
InvalidParameterValue.RegionError	Invalid region
InvalidParameterValue.ReplicaSetNumError	Incorrect number of replica sets (shards).
InvalidParameterValue.SpecNotOnSale	Incorrect purchasable specification.
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.
InvalidParameterValue.TagNotFound	The specified tag was not found.
InvalidParameterValue.VpcIdOrSubnetIdNotFound	The VPC (subnet) was not found.
InvalidParameterValue.ZoneClosed	Instances are not purchasable in this AZ.
InvalidParameterValue.ZoneError	Invalid availability zone
UnsupportedOperation.VersionNotSupport	The current version does not support the operation.

AssignProject

Last updated：2023-03-20 10:55:17

1. API Description

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

This API is used to specify the project to which a TencentDB instance belongs.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: AssignProject.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	List of instance IDs in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB Console page
ProjectId	Yes	Integer	Unique ID of an existing project (instead of a new project).

3. Output Parameters

Parameter	Type	Description

Name		
FlowIds	Array of Integer	List of the returned async task IDs
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Specifying the project to which an instance belongs

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=AssignProject
&InstanceIds.0=cmgo-eqmoa5sf
&ProjectId=12
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FlowIds": [
1081
],
"RequestId": "8e2a339e-5ba9-4da3-8dc2-65a0a6314811"
}
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.LockFailed	Instance lock failed.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.ProjectNotFound	The project does not exist.

RenewDBInstances

Last updated：2023-03-20 10:55:13

1. API Description

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

This API is used to renew a monthly subscription TencentDB instance. Only monthly subscription instances are supported, while pay-as-you-go instances do not need to be renewed.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: RenewDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	IDs of one or more instances to be operated. The value can be obtained from the `InstanceId` parameter returned by the `DescribeInstances` API. Up to 100 instances can be requested at a time.
InstanceChargePrepaid	Yes	InstanceChargePrepaid	The parameter setting for the prepaid

			mode (monthly subscription mode). This parameter can specify the renewal period, whether to set automatic renewal, and other attributes of the monthly subscription instance. This parameter is mandatory in monthly subscription.

3. Output Parameters

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

4. Example

Example1 Renewing monthly-subscribed instances

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=RenewDBInstances
&InstanceIds.0=cmgo-gzo03o75
&InstanceChargePrepaid.Period=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "b1886334-acfe-4445-8429-e11a6e7b3851"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.InvalidTradeOperation	Billing error. Corresponding purchase/renewal/configuration change operations are not allowed for the current instance.
InvalidParameterValue.NotFoundInstance	The instance was not found.

DescribeSlowLogs

Last updated：2023-04-06 10:21:25

1. API Description

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

This API is used to get the slow log information of a TencentDB instance. Only slow logs for the last 7 days can be queried.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSlowLogs.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of `cmgo-p8vnipr5`, which is the same as the instance ID displayed on the TencentDB Console page
StartTime	Yes	Timestamp	Start time of slow log in the format of `yyyy-mm-dd hh:mm:ss`, such as 2019-06-01 10:00:00. The query time range cannot exceed 24 hours. Only slow logs for the last 7 days can be queried.
EndTime	Yes	Timestamp	End time of slow log in the format of `yyyy-mm-dd hh:mm:ss`, such as 2019-06-02 12:00:00. The query time range cannot exceed 24 hours. Only slow logs for the last 7 days can be queried.

SlowMS	Yes	Integer	Threshold of slow log execution time in milliseconds. Minimum value: 100. Slow logs whose execution time exceeds the threshold will be returned.
Offset	No	Integer	Offset. Minimum value: 0. Maximum value: 10000. Default value: 0.
Limit	No	Integer	Number of entries per page. Minimum value: 1. Maximum value: 100. Default value: 20.
Format	No	String	Return format of slow log. The original slow log format is returned by default, and the format can be set to JSON on versions 4.4 and later.

3. Output Parameters

Parameter Name	Type	Description
Count	Integer	Total number of slow logs
SlowLogs	Array of String	Slow log details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the slow log information of an instance

This example shows you how to get the slow log information of an instance.

Input Example

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

{
"InstanceId": "abc",
"StartTime": "2020-09-22 00:00:00",
"EndTime": "2020-09-22 00:00:00",
```

```
"SlowMS": 1,
"Offset": 1,
"Limit": 1,
"Format": "abc"
}
```

Output Example


```
{
"Response": {
"Count": 20,
"RequestId": "3a36aa6e-67e2-42a9-adfe-fc694334cc78",
"SlowLogs": [
"Mon Apr 20 13:55:21.623 I COMMAND [conn16903] command admin.$cmd command: _flush
RoutingTableCacheUpdates { forceRoutingTableRefresh: \"config.system.sessions\",
maxTimeMS: 30000, $clusterTime: { clusterTime: Timestamp(1587362114, 1), signatur
e: { hash: BinData(0, 259955995BDC7E0CA35C4276EB23341C03910A48), keyId: 681761394
9303783443 } }, $configServerState: { opTime: { ts: Timestamp(1587362108, 1), t:
1 } }, $db: \"admin\" } numYields:0 reslen:288 locks:{ Global: { acquireCount: {
r: 4 } }, Database: { acquireCount: { r: 2 } }, Collection: { acquireCount: { r:
2 } } } protocol:op_msg 5335ms",
"Mon Apr 20 14:01:00.309 I COMMAND [conn1313] command admin.$cmd command: _flushR
outingTableCacheUpdates { forceRoutingTableRefresh: \"config.system.sessions\", m
axTimeMS: 30000, $clusterTime: { clusterTime: Timestamp(1587362457, 1), signatur
e: { hash: BinData(0, DC2B16681C70845D7B6C8C6C97400D4DFB394CA0), keyId: 681761394
9303783443 } }, $configServerState: { opTime: { ts: Timestamp(1587362455, 1), t:
1 } }, $db: \"admin\" } numYields:0 reslen:288 locks:{ Global: { acquireCount: {
r: 4 } }, Database: { acquireCount: { r: 2 } }, Collection: { acquireCount: { r:
2 } } } protocol:op_msg 1264ms",
"Mon Apr 20 14:20:15.283 I COMMAND [conn586] command admin.$cmd command: _flushRo
utingTableCacheUpdates { forceRoutingTableRefresh: \"config.system.sessions\", ma
xTimeMS: 30000, $clusterTime: { clusterTime: Timestamp(1587363613, 1), signature:
{ hash: BinData(0, 72D24884320C8A9A26AF8C4DD1127874085DFAE5), keyId: 681761394930
3783443 } }, $configServerState: { opTime: { ts: Timestamp(1587363603, 1), t: 1 }
}, $db: \"admin\" } numYields:0 reslen:288 locks:{ Global: { acquireCount: { r: 4
} }, Database: { acquireCount: { r: 2 } }, Collection: { acquireCount: { r: 2 } }
} protocol:op_msg 426ms",
"Mon Apr 20 10:25:45.487 I COMMAND [conn48] command local.system.replset command:
replSetReconfig { replSetReconfig: { _id: \"cmgo-a3bm93hf_1\", version: 3, protoc
olVersion: 1, members: [ { _id: 1, host: \"100.93.44.85:7005\", arbiterOnly: fals
e, buildIndexes: true, hidden: false, priority: 1.0, slaveDelay: 0, votes: 1 }, {
_id: 2, host: \"10.112.91.43:7009\", arbiterOnly: false, buildIndexes: true, hidd
en: false, priority: 1.0, slaveDelay: 0, votes: 1 }, { _id: 3, host: \"10.53.61.2
4:7004\" } ], settings: { chainingAllowed: true, heartbeatIntervalMillis: 2000, h
eartbeatTimeoutSecs: 10, electionTimeoutMillis: 10000, catchUpTimeoutMillis: -1,
catchUpTakeoverDelayMillis: 30000, getLastErrorDefaults: { wtimeout: 0, w: 1 }, r
```

```
eplicaSetId: ObjectId('5e9d08160c269352426f9575') } }, $db: \"admin\" } numYield
s:0 reslen:60 locks:{ Global: { acquireCount: { r: 3, w: 2, W: 1 } }, Database: {
acquireCount: { w: 1, W: 1 } }, oplog: { acquireCount: { w: 1 } } } protocol:op_q
uery 423ms",
"Mon Apr 20 10:25:34.934 I COMMAND [conn28] command local.system.replset command:
replSetReconfig { replSetReconfig: { _id: \"cmgo-a3bm93hf_1\", version: 2, protoc
olVersion: 1, members: [ { _id: 1, host: \"100.93.44.85:7005\", arbiterOnly: fals
e, buildIndexes: true, hidden: false, priority: 1.0, slaveDelay: 0, votes: 1 }, {
_id: 2, host: \"10.112.91.43:7009\" } ], settings: { chainingAllowed: true, heart
beatIntervalMillis: 2000, heartbeatTimeoutSecs: 10, electionTimeoutMillis: 10000,
catchUpTimeoutMillis: -1, catchUpTakeoverDelayMillis: 30000, getLastErrorDefault
s: { w: 1, wtimeout: 0 }, replicaSetId: ObjectId('5e9d08160c269352426f9575') } },
$db: \"admin\" } numYields:0 reslen:60 locks:{ Global: { acquireCount: { r: 3, w:
2, W: 1 } }, Database: { acquireCount: { w: 1, W: 1 } }, oplog: { acquireCount: {
w: 1 } } } protocol:op_query 414ms",
"Mon Apr 20 10:24:52.278 I COMMAND [conn30] command local.system.replset command:
replSetReconfig { replSetReconfig: { _id: \"cmgo-a3bm93hf_0\", version: 2, protoc
olVersion: 1, members: [ { _id: 1, host: \"10.53.80.6:7011\", arbiterOnly: false,
buildIndexes: true, hidden: false, priority: 1.0, slaveDelay: 0, votes: 1 }, { _i
d: 2, host: \"100.93.44.26:7012\" } ], settings: { chainingAllowed: true, heartbe
atIntervalMillis: 2000, heartbeatTimeoutSecs: 10, electionTimeoutMillis: 10000, c
atchUpTimeoutMillis: -1, catchUpTakeoverDelayMillis: 30000, getLastErrorDefaults:
{ w: 1, wtimeout: 0 }, replicaSetId: ObjectId('5e9d07ebf3f99b58c95a33fb') } }, $d
b: \"admin\" } numYields:0 reslen:60 locks:{ Global: { acquireCount: { r: 3, w:
2, W: 1 } }, Database: { acquireCount: { w: 1, W: 1 } }, oplog: { acquireCount: {
w: 1 } } } protocol:op_query 406ms",
"Mon Apr 20 10:25:02.675 I COMMAND [conn50] command local.system.replset command:
replSetReconfig { replSetReconfig: { _id: \"cmgo-a3bm93hf_0\", version: 3, protoc
olVersion: 1, members: [ { _id: 1, host: \"10.53.80.6:7011\", arbiterOnly: false,
buildIndexes: true, hidden: false, priority: 1.0, slaveDelay: 0, votes: 1 }, { _i
d: 2, host: \"100.93.44.26:7012\", arbiterOnly: false, buildIndexes: true, hidde
n: false, priority: 1.0, slaveDelay: 0, votes: 1 }, { _id: 3, host: \"9.34.46.139
:7003\" } ], settings: { chainingAllowed: true, heartbeatIntervalMillis: 2000, he
artbeatTimeoutSecs: 10, electionTimeoutMillis: 10000, catchUpTimeoutMillis: -1, c
atchUpTakeoverDelayMillis: 30000, getLastErrorDefaults: { w: 1, wtimeout: 0 }, re
plicaSetId: ObjectId('5e9d07ebf3f99b58c95a33fb') } }, $db: \"admin\" } numYields:
0 reslen:60 locks:{ Global: { acquireCount: { r: 3, w: 2, W: 1 } }, Database: { a
cquireCount: { w: 1, W: 1 } }, oplog: { acquireCount: { w: 1 } } } protocol:op_qu
ery 373ms",
"Mon Apr 20 18:35:15.103 I COMMAND [conn586] command admin.$cmd command: _flushRo
utingTableCacheUpdates { forceRoutingTableRefresh: \"config.system.sessions\", ma
xTimeMS: 30000, $clusterTime: { clusterTime: Timestamp(1587378913, 1), signature:
{ hash: BinData(0, A3C176F81B64A7473F88F3F40B84C59EC9E1E1AE), keyId: 681761394930
3783443 } }, $configServerState: { opTime: { ts: Timestamp(1587378912, 1), t: 2 }
}, $db: \"admin\" } numYields:0 reslen:288 locks:{ Global: { acquireCount: { r: 4
} }, Database: { acquireCount: { r: 2 } }, Collection: { acquireCount: { r: 2 } }
} protocol:op_msg 248ms",
```



```
"Mon Apr 20 10:27:38.171 I COMMAND [conn281] command admin.$cmd command: setFeatu
reCompatibilityVersion { setFeatureCompatibilityVersion: \"4.0\", $db: \"admin\"
} numYields:0 reslen:288 locks:{ Global: { acquireCount: { r: 5, w: 4, R: 1 } },
Database: { acquireCount: { w: 2, W: 2 } }, Collection: { acquireCount: { w: 2 }
}, Mutex: { acquireCount: { W: 1 } }, oplog: { acquireCount: { w: 2 } } } protoco
l:op_msg 212ms",
"Mon Apr 20 10:26:27.924 I COMMAND [conn111] command local.system.replset comman
d: replSetReconfig { replSetReconfig: { _id: \"cmgo-a3bm93hf_2\", version: 3, pro
tocolVersion: 1, members: [ { _id: 1, host: \"10.112.90.165:7002\", arbiterOnly:
false, buildIndexes: true, hidden: false, priority: 1.0, slaveDelay: 0, votes: 1
}, { _id: 2, host: \"10.53.80.6:7012\", arbiterOnly: false, buildIndexes: true, h
idden: false, priority: 1.0, slaveDelay: 0, votes: 1 }, { _id: 3, host: \"100.93.
44.26:7013\" } ], settings: { chainingAllowed: true, heartbeatIntervalMillis: 200
0, heartbeatTimeoutSecs: 10, electionTimeoutMillis: 10000, catchUpTimeoutMillis:
-1, catchUpTakeoverDelayMillis: 30000, getLastErrorDefaults: { w: 1, wtimeout: 0
}, replicaSetId: ObjectId('5e9d0841f0f688fc992fd087') } }, $db: \"admin\" } numYi
elds:0 reslen:60 locks:{ Global: { acquireCount: { r: 3, w: 2, W: 1 } }, Databas
e: { acquireCount: { w: 1, W: 1 } }, oplog: { acquireCount: { w: 1 } } } protoco
l:op_query 212ms",
"Mon Apr 20 13:55:15.051 I COMMAND [conn586] command admin.$cmd command: _flushRo
utingTableCacheUpdates { forceRoutingTableRefresh: \"config.system.sessions\", ma
xTimeMS: 30000, $clusterTime: { clusterTime: Timestamp(1587362114, 1), signature:
{ hash: BinData(0, 259955995BDC7E0CA35C4276EB23341C03910A48), keyId: 681761394930
3783443 } }, $configServerState: { opTime: { ts: Timestamp(1587362085, 6), t: 1 }
}, $db: \"admin\" } numYields:0 reslen:288 locks:{ Global: { acquireCount: { r: 4
} }, Database: { acquireCount: { r: 2 } }, Collection: { acquireCount: { r: 2 } }
} protocol:op_msg 192ms",
"Mon Apr 20 10:27:39.400 I COMMAND [conn213] command admin.$cmd command: setFeatu
reCompatibilityVersion { setFeatureCompatibilityVersion: \"4.0\", $db: \"admin\"
} numYields:0 reslen:288 locks:{ Global: { acquireCount: { r: 5, w: 4, R: 1 } },
Database: { acquireCount: { w: 2, W: 2 } }, Collection: { acquireCount: { w: 2 }
}, Mutex: { acquireCount: { W: 1 } }, oplog: { acquireCount: { w: 2 } } } protoco
l:op_msg 183ms",
"Mon Apr 20 10:26:09.357 I COMMAND [conn36] command local.system.replset command:
replSetInitiate { replSetInitiate: { _id: \"cmgo-a3bm93hf_2\", version: 1, member
s: [ { _id: 1, host: \"10.112.90.165:7002\" } ] }, $readPreference: { mode: \"sec
ondaryPreferred\" }, $db: \"admin\" } numYields:0 reslen:60 locks:{ Global: { acq
uireCount: { r: 23, w: 7, W: 2 }, acquireWaitCount: { W: 1 }, timeAcquiringMicro
s: { W: 59 } }, Database: { acquireCount: { r: 7, w: 4, W: 3 } }, Collection: { a
cquireCount: { r: 3, w: 2 } }, oplog: { acquireCount: { r: 2, w: 3 } } } protoco
l:op_query 134ms",
"Mon Apr 20 13:00:16.363 I COMMAND [conn16903] command admin.$cmd command: _flush
RoutingTableCacheUpdates { forceRoutingTableRefresh: \"config.system.sessions\",
maxTimeMS: 30000, $clusterTime: { clusterTime: Timestamp(1587358814, 1), signatur
e: { hash: BinData(0, 90BD7BB9B481B9825527D89A3579B52E6C0C3915), keyId: 681761394
9303783443 } }, $configServerState: { opTime: { ts: Timestamp(1587358809, 2), t:
1 } }, $db: \"admin\" } numYields:0 reslen:288 locks:{ Global: { acquireCount: {
```



```
r: 4 } }, Database: { acquireCount: { r: 2 } }, Collection: { acquireCount: { r:
2 } } } protocol:op_msg 123ms",
"Mon Apr 20 13:35:14.983 I COMMAND [conn586] command admin.$cmd command: _flushRo
utingTableCacheUpdates { forceRoutingTableRefresh: \"config.system.sessions\", ma
xTimeMS: 30000, $clusterTime: { clusterTime: Timestamp(1587360912, 1), signature:
{ hash: BinData(0, 06A84575A66B9316D1ECBFB9FB1C7B2F605AB3A8), keyId: 681761394930
3783443 } }, $configServerState: { opTime: { ts: Timestamp(1587360909, 5), t: 1 }
}, $db: \"admin\" } numYields:0 reslen:288 locks:{ Global: { acquireCount: { r: 4
} }, Database: { acquireCount: { r: 2 } }, Collection: { acquireCount: { r: 2 } }
} protocol:op_msg 122ms",
"Mon Apr 20 10:24:43.760 I COMMAND [conn16] command local.system.replset command:
replSetInitiate { replSetInitiate: { _id: \"cmgo-a3bm93hf_0\", version: 1, member
s: [ { _id: 1, host: \"10.53.80.6:7011\" } ] }, $readPreference: { mode: \"second
aryPreferred\" }, $db: \"admin\" } numYields:0 reslen:60 locks:{ Global: { acquir
eCount: { r: 23, w: 7, W: 2 }, acquireWaitCount: { W: 1 }, timeAcquiringMicros: {
W: 39 } }, Database: { acquireCount: { r: 7, w: 4, W: 3 } }, Collection: { acquir
eCount: { r: 3, w: 2 } }, oplog: { acquireCount: { r: 2, w: 3 } } } protocol:op_q
uery 112ms",
"Mon Apr 20 10:25:26.300 I COMMAND [conn15] command local.system.replset command:
replSetInitiate { replSetInitiate: { _id: \"cmgo-a3bm93hf_1\", version: 1, member
s: [ { _id: 1, host: \"100.93.44.85:7005\" } ] }, $readPreference: { mode: \"seco
ndaryPreferred\" }, $db: \"admin\" } numYields:0 reslen:60 locks:{ Global: { acqu
ireCount: { r: 23, w: 7, W: 2 }, acquireWaitCount: { W: 1 }, timeAcquiringMicros:
{ W: 24 } }, Database: { acquireCount: { r: 7, w: 4, W: 3 }, acquireWaitCount: {
W: 1 }, timeAcquiringMicros: { W: 7 } }, Collection: { acquireCount: { r: 3, w: 2
} }, oplog: { acquireCount: { r: 2, w: 3 } } } protocol:op_query 110ms",
"Mon Apr 20 10:27:39.400 I COMMAND [conn213] command admin.$cmd command: update {
update: \"system.version\", writeConcern: { w: \"majority\" }, $db: \"admin\" } n
umYields:0 reslen:370 locks:{ Global: { acquireCount: { r: 5, w: 4, R: 1 } }, Dat
abase: { acquireCount: { w: 2, W: 2 } }, Collection: { acquireCount: { w: 2 } },
Mutex: { acquireCount: { W: 1 } }, oplog: { acquireCount: { w: 2 } } } protocol:o
p_msg 107ms",
"Mon Apr 20 10:27:38.065 I COMMAND [conn281] command admin.$cmd command: update {
update: \"system.version\", writeConcern: { w: \"majority\" }, $db: \"admin\" } n
umYields:0 reslen:370 locks:{ Global: { acquireCount: { r: 2, w: 2 } }, Database:
{ acquireCount: { w: 1, W: 1 } }, Collection: { acquireCount: { w: 1 } }, Mutex:
{ acquireCount: { W: 1 } }, oplog: { acquireCount: { w: 1 } } } protocol:op_msg 1
07ms",
"Mon Apr 20 10:27:38.170 I COMMAND [conn281] command admin.$cmd command: update {
update: \"system.version\", writeConcern: { w: \"majority\" }, $db: \"admin\" } n
umYields:0 reslen:370 locks:{ Global: { acquireCount: { r: 5, w: 4, R: 1 } }, Dat
abase: { acquireCount: { w: 2, W: 2 } }, Collection: { acquireCount: { w: 2 } },
Mutex: { acquireCount: { W: 1 } }, oplog: { acquireCount: { w: 2 } } } protocol:o
p_msg 105ms"
]
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.QueryTimeOutOfRange	Only slow logs generated in the past seven days can be queried.
InvalidParameterValue.QueryTimeRangeBeyondLimit	Only slow logs generated in the past seven days can be queried.

InvalidParameterValue.SlowMSBelowLimit	The value of the `slowMS` parameter should be at least 100 ms.
InvalidParameterValue.StartTimeNotBeforeThanEndTime	The start time should be earlier than the end time.

DescribeSlowLogPatterns

Last updated：2023-03-20 10:55:16

1. API Description

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

This API is used to get the slow log statistics of a database instance.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSlowLogPatterns.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of `cmgo-p8vnipr5` , which is the same as the instance ID displayed on the TencentDB Console page
StartTime	Yes	Timestamp	Start time of slow log in the format of `yyyy-mm-dd hh:mm:ss` , such as 2019-06-01 10:00:00. The query time range cannot exceed 24 hours. Only slow logs for the last 7 days can be queried.
EndTime	Yes	Timestamp	End time of slow log in the format of `yyyy-mm-dd hh:mm:ss` , such as 2019-06-02 12:00:00. The query time range cannot exceed 24 hours. Only slow logs for the last 7 days can be queried.

SlowMS	Yes	Integer	Threshold of slow log execution time in milliseconds. Minimum value: 100. Slow logs whose execution time exceeds the threshold will be returned.
Offset	No	Integer	Offset. Minimum value: 0. Maximum value: 10000. Default value: 0.
Limit	No	Integer	Number of entries per page. Minimum value: 1. Maximum value: 100. Default value: 20.
Format	No	String	Slow log format, which can be JSON. If this parameter is left empty, the slow log will be returned in its native format.

3. Output Parameters

Parameter Name	Type	Description
Count	Integer	Total number of slow logs
SlowLogPatterns	Array of SlowLogPattern	Slow log statistics
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the slow log statistics of database

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=DescribeSlowLogPatterns
&InstanceId=cmgo-a3bm93hf
&StartTime=2020-04-20 00:00:00
&EndTime=2020-04-20 22:00:00
&SlowMS=100
&Offset=0
&Limit=100
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Count": 2,
"RequestId": "895de939-f726-4cb0-bb02-3890289479e3",
"SlowLogPatterns": [
{
"AverageTime": 699,
"MaxTime": 5335,
"Pattern": "admin.$cmd.command",
"Total": 12
},
{
"AverageTime": 271,
"MaxTime": 423,
"Pattern": "local.system.replset.command",
"Total": 8
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.QueryTimeOutOfRange	Only slow logs generated in the past seven days can be queried.
InvalidParameterValue.QueryTimeRangeBeyondLimit	Only slow logs generated in the past seven days can be queried.
InvalidParameterValue.SlowMSBelowLimit	The value of the `slowMS` parameter should be at least 100 ms.
InvalidParameterValue.StartTimeNotBeforeThanEndTime	The start time should be earlier than the end time.

InquirePriceRenewDBInstances

Last updated：2023-03-20 10:55:14

1. API Description

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

This API is used to query the renewal price of a monthly subscription instance.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquirePriceRenewDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed in the TencentDB Console. This API supports operations on up to 5 instances at a time.
InstanceChargePrepaid	Yes	InstanceChargePrepaid	The parameter setting for the prepaid mode (monthly subscription mode). This parameter can specify the renewal period, whether to set automatic renewal, and

			other attributes of the monthly subscription instance.

3. Output Parameters

Parameter Name	Type	Description
Price	DBInstancePrice	Price.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the renewal price of an instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=InquirePriceRenewDBInstances
&InstanceIds.0=cmgo-8oij5631
&InstanceChargePrepaid.Period=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Price": {
"DiscountPrice": 455.6,
"OriginalPrice": 670,
"UnitPrice": 0
},
"RequestId": "d08f2a0f-4a69-451e-8ddb-753340d5fb34"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InternalError.FindInstanceFailed	Failed to query the instance.
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.ZoneClosed	Instances are not purchasable in this AZ.

InquirePriceModifyDBInstanceSpec

Last updated：2023-04-06 10:21:24

1. API Description

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

This API is used to query the price of instance specification adjustment.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquirePriceModifyDBInstanceSpec.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of cmgo-p8vn****. It is the same as the instance ID displayed in the TencentDB console.
Memory	Yes	Integer	Instance memory size in GB after specification adjustment.
Volume	Yes	Integer	Instance disk size in GB after specification adjustment.
NodeNum	No	Integer	Number of instance nodes. The number of nodes is left unchanged by default and cannot be changed currently.
ReplicateSetNum	No	Integer	Number of instance shards. The number of shards is left unchanged by default and cannot be changed currently.

3. Output Parameters

Parameter Name	Type	Description
Price	DBInstancePrice	Price.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the price of a specified instance after adjustment

This example shows you how to query the price of a specified instance after adjustment.

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=InquirePriceModifyDBInstanceSpec
&InstanceId=cmgo-8oij5631
&Memory=8
&Volume=200
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Price": {
"DiscountPrice": 449.36,
"OriginalPrice": 660.82,
"UnitPrice": 0
},
"RequestId": "ac618a97-5a29-4003-8489-fd8a1e1cc8e9"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.FindInstanceFailed	Failed to query the instance.
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.ZoneClosed	Instances are not purchasable in this AZ.

InquirePriceCreateDBInstances

Last updated：2023-03-20 10:55:15

1. API Description

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

This API is used to query price of instance creation. The `region` parameter must be passed in this API, otherwise verification will fail. This API allows queries only for purchasable instance specifications.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquirePriceCreateDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
Zone	Yes	String	Instance region name in the format of ap-guangzhou-2.
NodeNum	Yes	Integer	Number of primary and secondary nodes per shard. Value range: It can be queried by the DescribeSpecInfo API, and the `MinNodeNum` and `MaxNodeNum` parameters are the minimal and maximum value respectively.
Memory	Yes	Integer	Instance memory size in GB.
Volume	Yes	Integer	Instance disk size. • Unit: GB

			• Value range: It can be queried by the DescribeSpecInfo API, and `MinStorage` and `MaxStorage` parameters are the minimal and maximum value of the disk size respectively.
MongoVersion	Yes	String	Instance version information. • For specific supported versions, query through the DescribeSpecInfo API, the returned parameter `MongoVersionCode` in data structure `SpecItems` is the supported version information. • The correspondences between parameters and versions are as follows ◦ MONGO_3_WT: MongoDB 3.2 WiredTiger storage engine version. ◦ MONGO_3_ROCKS: MongoDB 3.2 RocksDB storage engine version. ◦ MONGO_36_WT: MongoDB 3.6 WiredTiger storage engine version. ◦ MONGO_40_WT: MongoDB 4.0 WiredTiger storage engine version. ◦ MONGO_42_WT: MongoDB 4.2 WiredTiger storage engine version. ◦ MONGO_44_WT: MongoDB 4.4 WiredTiger storage engine version.
MachineCode	Yes	String	Server type. Valid values: `HIO` (high IO), `HIO10G` (ten-gigabit high IO)
GoodsNum	Yes	Integer	Number of instances. Minimum value: 1. Maximum value: 10.
ClusterType	Yes	String	Instance type. Valid values: REPLSET (replica set), SHARD (sharded cluster), STANDALONE (single-node).
ReplicateSetNum	Yes	Integer	Number of replica sets. To create a replica set instance, set this parameter to 1; to create a shard instance, see the parameters returned by the `DescribeSpecInfo` API; to create a single-node instance, set this parameter to 0.
Period	No	Integer	Instance validity period in months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36.
InstanceChargeType	No	String	
MongosCpu	No	Integer	

MongosMemory	No	Integer	
MongosNum	No	Integer	
ConfigServerCpu	No	Integer	
ConfigServerMemory	No	Integer	
ConfigServerVolume	No	Integer	

3. Output Parameters

Parameter Name	Type	Description
Price	DBInstancePrice	Price.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying purchase price of an instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=InquirePriceCreateDBInstances
&Zone=ap-guangzhou-4
&NodeNum=3
&Memory=4
&Volume=100
&MongoVersion=MONGO_36_WT
&MachineCode=HIO10G
&GoodsNum=2
&Period=1
&ClusterType=REPLSET
&ReplicateSetNum=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Price": {
"DiscountPrice": 1340,
"OriginalPrice": 1340,
"UnitPrice": 670
},
"RequestId": "fb8b4646-389d-44cc-ab8c-98c081cbdad3"
}
}
```


5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error

InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.MachineTypeError	Incorrect model.
InvalidParameterValue.MongoVersionError	The instance version is incorrect.
InvalidParameterValue.ReplicaSetNumError	Incorrect number of replica sets (shards).
InvalidParameterValue.SpecNotOnSale	Incorrect purchasable specification.
InvalidParameterValue.ZoneClosed	Instances are not purchasable in this AZ.
InvalidParameterValue.ZoneError	Invalid availability zone

DescribeDBInstanceDeal

Last updated：2023-03-20 10:55:17

1. API Description

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

This API is used to get details of purchase, renewal, and specification adjustment orders of a MongoDB instance.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeDBInstanceDeal.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
DealId	Yes	String	Order ID. It is returned by the `CreateDBInstance` and other APIs.

3. Output Parameters

Parameter Name	Type	Description

Status	Integer	Order status. Valid values: 1 (unpaid), 2 (paid), 3 (delivering), 4 (delivered), 5 (delivery failed), 6 (refunded), 7 (order closed), 8 (order closed because it failed to be paid within timeout period).
OriginalPrice	Float	Original price of the order.
DiscountPrice	Float	Discounted price of the order.
Action	String	Operation performed by the order. Valid values: purchase, renew, upgrade, downgrade, refund.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying order details

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=DescribeDBInstanceDeal
&DealId=20200420111635
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Action": "purchase",
"DiscountPrice": 759.33,
"OriginalPrice": 1116.67,
"RequestId": "e79836e8-1864-45bf-aa63-0c7af31e7de5",
"Status": 4
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.

DescribeSecurityGroup

Last updated：2023-03-20 10:55:16

1. API Description

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

This API is used to query the security groups associated with an instance.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSecurityGroup.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of "cmgo-p8vnipr5"

3. Output Parameters

Parameter Name	Type	Description
Groups	Array of	Security groups associated with the instance

	SecurityGroup	
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the security groups associated with an instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=DescribeSecurityGroup
&InstanceId=cmgo-p8vnipr5
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "xx",
"Groups": [
{
"Outbound": [
{
"PortRange": "xx",
"CidrIp": "xx",
"ServiceModule": "xx",
"AddressModule": "xx",
"Action": "xx",
"IpProtocol": "xx",
"Id": "xx",
"Desc": "xx"
},
{
"PortRange": "xx",
"CidrIp": "xx",
"Action": "xx",
"AddressModule": "xx",
"ServiceModule": "xx",
"IpProtocol": "xx",
"Id": "xx",
"Desc": "xx"
}
],
```

```
"SecurityGroupName": "xx",
"Inbound": [
{
"PortRange": "xx",
"CidrIp": "xx",
"ServiceModule": "xx",
"AddressModule": "xx",
"Action": "xx",
"IpProtocol": "xx",
"Id": "xx",
"Desc": "xx"
},
{
"PortRange": "xx",
"CidrIp": "xx",
"Action": "xx",
"AddressModule": "xx",
"ServiceModule": "xx",
"IpProtocol": "xx",
"Id": "xx",
"Desc": "xx"
}
],
"ProjectId": 0,
"SecurityGroupId": "xx",
"SecurityGroupRemark": "xx",
"CreateTime": "xx"
}
]
}
}
```


5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.NotFoundInstance	The instance was not found.

DescribeInstanceParams

Last updated：2023-03-20 10:55:16

1. API Description

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

This API is used to query the modifiable parameter list of an instance.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInstanceParams.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description
InstanceEnumParam	Array of InstanceEnumParam	The collection of enum parameters

InstanceIntegerParam	Array of InstanceIntegerParam	The collection of integer parameters
InstanceTextParam	Array of InstanceTextParam	The collection of text parameters
InstanceMultiParam	Array of InstanceMultiParam	The collection of string parameters used to represent time ranges
TotalCount	Integer	The total number of modifiable parameters of the instance, such as 0
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 InstanceEnumParam

This example shows you how to query the modifiable parameter list of a MongoDB instance.

Input Example

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

{
"InstanceId": "jyjcw8yv"
}
```

Output Example

```
{
"Response": {
"InstanceEnumParam": [
{
"Status": 1,
"CurrentValue": "xx",
"DefaultValue": "xx",
"NeedRestart": "xx",
"EnumValue": [
```

```
"xx"
],
"ParamName": "xx",
"Tips": [
"xx"
],
"ValueType": "xx"
}
],
"InstanceTextParam": [
{
"Status": "xx",
"CurrentValue": "xx",
"DefaultValue": "xx",
"NeedRestart": "xx",
"ParamName": "xx",
"Tips": [
"xx"
],
"TextValue": "xx",
"ValueType": "xx"
}
],
"TotalCount": 1,
"RequestId": "xx",
"InstanceIntegerParam": [
{
"Status": 1,
"CurrentValue": "xx",
"Min": "xx",
"Max": "xx",
"DefaultValue": "xx",
"NeedRestart": "xx",
"ParamName": "xx",
"Tips": [
"xx"
],
"ValueType": "xx",
"Unit": "xx"
}
],
"InstanceMultiParam": [
{
"Status": 1,
"CurrentValue": "xx",
"DefaultValue": "xx",
"NeedRestart": "xx",
```

```
"EnumValue": [
"xx"
],
"ParamName": "xx",
"Tips": [
"xx"
],
"ValueType": "xx"
}
]
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error

InvalidParameter	Parameter error
InvalidParameter.CurrentInstanceNotSupportModifyParams	The instance does not support parameter setting.
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.NotFoundInstance	The instance was not found.
ResourceNotFound	The resource does not exist.

ModifyDBInstanceSecurityGroup

Last updated：2023-04-06 10:21:24

1. API Description

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

This API is used to modify the security groups associated with an instance.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDBInstanceSecurityGroup.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
SecurityGroupIds.N	Yes	Array of String	Target security group IDs

3. Output Parameters

Parameter	Type	Description

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying security group information of an instance

Input Example

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

{
"InstanceId": "xx",
"SecurityGroupIds": [
"xx"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

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
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.LockFailed	Instance lock failed.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.SecurityGroupId	Invalid security group ID
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.

ModifyDBInstanceNetworkAddress

Last updated：2023-03-20 10:55:14

1. API Description

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

This API is used to modify the network settings of a TencentDB instance, such as switching its network type from classic network to VPC or between VPCs.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDBInstanceNetworkAddress.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
OldIpExpiredTime	Yes	Integer	Old IP retention period in minutes. The old IP will be released after the specified time, and both the old and new IPs can be accessed before the release. The value `0` indicates that the old IP will be reclaimed immediately.
NewUniqVpcId	Yes	String	ID of the VPC to which the new IP belongs

			after the switch. When it is classic network, this field will be empty.
NewUniqSubnetId	Yes	String	ID of the subnet to which the new IP belongs after the switch. When it is classic network, this field will be empty.
NetworkAddresses.N	No	Array of ModifyNetworkAddress	IP information to be modified

3. Output Parameters

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

4. Example

Example1 Modifying the network information of a TencentDB instance

Input Example

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

{
"InstanceId": "xx",
"InstanceId": "xx",
{
"OldIpAddress": "xx",
"NewIPAddress": "xx"
}
],
"OldIpExpiredTime": 1,
"NewUniqVpcId": "xx",
"NewUniqSubnetId": "xx"
}
```

Output Example

```
{
"Response": {
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InternalError.CheckAppIdFailed	`appId` verification failed.
InvalidParameter	Parameter error

InvalidParameter.InvalidVip	Invalid Vip information
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.
InvalidParameterValue.VpcIdOrSubnetIdNotFound	The VPC (subnet) was not found.

Backup APIs
DescribeDBBackups

Last updated：2023-03-20 10:55:18

1. API Description

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

This API is used to query the list of instance backups. Currently, only backups created in the last seven days can be queried.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeDBBackups.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of cmgo-p8vnipr5. It is the same as the instance ID displayed on the TencentDB Console page
BackupMethod	No	Integer	Backup mode. Valid values: `0` (logical backup), `1` (physical backup), `2` (both modes). Default value: `0` .
Limit	No	Integer	Number of entries per page. Maximum value: `100` . If this

			parameter is left empty, all entries will be returned.
Offset	No	Integer	Pagination offset, starting from `0`. Default value: `0`.

3. Output Parameters

Parameter Name	Type	Description
BackupList	Array of BackupInfo	Backup list
TotalCount	Integer	Total number of backups
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the backup file information of a TencentDB instance

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=DescribeDBBackups
&InstanceId=cmgo-f555zzzz
&BackupMethod=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
"BackupList": [],
"TotalCount": 0
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.NotFoundInstance	The instance was not found.

CreateBackupDBInstance

Last updated：2023-03-20 10:55:18

1. API Description

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

This API is used to create instance backups.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateBackupDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
BackupMethod	Yes	Integer	Valid values: 0 (logical backup), 1 (physical backup)
BackupRemark	No	String	Backup remarks

3. Output Parameters

Parameter Name	Type	Description
AsyncRequestId	String	The status of the queried backup process.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating instance backups

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=CreateBackupDBInstance
&InstanceId=cmgo-ayxpky6l
&BackupRemark=remarkInfo
&BackupMethod=0
&<Common request parameters>
```

Output Example

```
{
"Response": {
"AsyncRequestId": 4773,
"RequestId": "e600a8d0-9014-11ea-84c1-01cccde830c6"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InternalError.CheckAppIdFailed	`appId` verification failed.
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.CheckAppIdFailed	`appId` verification failed.
InvalidParameterValue.IllegalInstanceStatus	Invalid instance status
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.

DescribeBackupDownloadTask

Last updated：2023-03-20 10:55:18

1. API Description

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

This API is used to query backup download task information.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBackupDownloadTask.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of "cmgo-p8vnipr5", which is the same as the instance ID displayed in the TencentDB console
BackupName	No	String	The name of a backup file with download tasks to be queried
StartTime	No	String	The start time of the query period. Tasks whose start time and end time fall within the query period will be queried. If it is left empty, the start time can be any time earlier than the end time.
EndTime	No	String	The end time of the query period. Tasks will be queried if their start and end times fall within the query period. If it is left empty, the end

			time can be any time later than the start time.
Limit	No	Integer	The maximum number of results returned per page. Value range: 1-100. Default value: `20`.
Offset	No	Integer	Offset for pagination. Default value: `0`.
OrderBy	No	String	The field used to sort the results. Valid values: `createTime` (default), `finishTime`.
OrderByType	No	String	Sort order. Valid values: `asc`, `desc` (default).
Status.N	No	Array of Integer	The status of the tasks to be queried. Valid values: `0` (waiting for execution), `1` (downloading), `2` (downloaded), `3` (download failed), `4` (waiting for retry). If it is left empty, tasks in any status will be returned.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of results
Tasks	Array of BackupDownloadTask	The list of download tasks
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying backup download task information

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=DescribeBackupDownloadTask
&InstanceId=cmgo-dygv1rnp
&Status.0=2
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "c41c0c46-7d5a-49b9-832a-557880c1e9ef",
"Tasks": [
{
"BackupName": "cmgo-dygv1rnp_2021-03-26 10:44",
"BackupSize": 844,
"CreateTime": "2021-03-26 10:47:37",
"Percent": 100,
"ReplicaSetId": "cmgo-dygv1rnp_0",
"Status": 2,
"TimeSpend": 0,
"Url": "https://mognodb-backup-test-tar-1251937656.cos.ap-guangzhou.myqcloud.com/cmgo-dygv1rnp_2021-03-26%2010%3A44%2Fcmgo-dygv1rnp_0.tar?q-sign-algorithm=sha1&q-ak=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx&q-sign-time=1616726859%3B1616813259&q-key-time=1616726859%3B1616813259&q-header-list=host&q-url-param-list=&q-signature=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
}
],
"TotalCount": 1
}
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
InternalError	Internal error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.BackupFileNotFound	The backup file was not found.
InvalidParameterValue.NotFoundInstance	The instance was not found.

CreateBackupDownloadTask

Last updated：2023-03-20 10:55:18

1. API Description

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

This API is used to create a backup download task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateBackupDownloadTask.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of "cmgo-p8vnipr5", which is the same as the instance ID displayed in the TencentDB console.
BackupName	Yes	String	The name of the backup file to be downloaded, which can be obtained by the `DescribeDBBackups` API.
BackupSets.N	Yes	Array of ReplicaSetInfo	Specify the node name of a replica set instance or the shard name list of a sharded cluster instance. Only backups of the specified node or shards will be downloaded. Suppose you have a replica set instance (ID: cmgo-

			p8vnipr5), you can use the sample code `BackupSets.0=cmgo-p8vnipr5_0` to download the full backup. For a replica set instance, the parameter value must be in the format of "instance ID_0". Suppose you have a sharded cluster instance (ID: cmgo-p8vnipr5), you can use the sample code `BackupSets.0=cmgo-p8vnipr5_0&BackupSets.1=cmgo-p8vnipr5_1` to download the backup data of shard 0 and shard 1. To download the full backup, please specify all shard names.

3. Output Parameters

Parameter Name	Type	Description
Tasks	Array of BackupDownloadTaskStatus	Download task status
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a backup download task

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=CreateBackupDownloadTask
&InstanceId=cmgo-dygv1rnp
&BackupName=cmgo-dygv1rnp_2021-03-26 10:44
&BackupSets.0.ReplicaSetId=cmgo-dygv1rnp_0
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6ed8d110-67be-4650-83b0-5df5a897e9e6",
"Tasks": [
{
```

```
"ReplicaSetId": "cmgo-dygv1rnp_0",
"Status": 2
}
]
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InternalError.CheckAppIdFailed	`appId` verification failed.
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.BackupFileNotFound	The backup file was not found.

InvalidParameterValue.NotFoundInstance	The instance was not found.

Account APIs
ResetDBInstancePassword

Last updated：2023-03-20 10:55:19

1. API Description

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

This API is used to modify instance password.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetDBInstancePassword.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
UserName	Yes	String	Instance account name
Password	Yes	String	New password, which must contain at least eight characters

3. Output Parameters

Parameter Name	Type	Description
AsyncRequestId	String	Async request ID, which is used to query the running status of the process.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the instance password

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=ResetDBInstancePassword
&InstanceId=cmgo-7pjedvz7
&UserName=rwuser
&Password=111111
&<Common request parameters>
```

Output Example

```
{
"Response": {
"AsyncRequestId": "4769",
"RequestId": "e600a8d0-9014-11ea-84c1-01cccde830c6"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter	Parameter error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.IllegalInstanceStatus	Invalid instance status
InvalidParameterValue.LockFailed	Instance lock failed.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.PasswordRuleFailed	The password is non-compliant.
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.
InvalidParameterValue.UserNotFound	The user account does not exist.

Task APIs
DescribeAsyncRequestInfo

Last updated：2023-03-20 10:55:12

1. API Description

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

This API is used to query async task status.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeAsyncRequestInfo.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
AsyncRequestId	Yes	String	Async task ID, which is returned by APIs related to async tasks, such as `CreateBackupDBInstance` .

3. Output Parameters

Parameter	Type	Description

Name		
Status	String	Status. Valid values: `initial` (initializing), `running`, `paused` (paused due to failure), `undoed` (rolled back due to failure), `failed` (ended due to failure), `success`
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying async task status

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=DescribeAsyncRequestInfo
&AsyncRequestId=4762
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "e600a8d0-9014-11ea-84c1-01cccde830c6",
"Status": "success"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.

Other APIs

FlushInstanceRouterConfig

Last updated：2023-03-20 10:55:13

1. API Description

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

This API is used to run the `FlushRouterConfig` command on all mongos instances.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: FlushInstanceRouterConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-07-25.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Running "FlushRouterConfig" on all mongos nodes

Input Example

```
https://mongodb.tencentcloudapi.com/?Action=FlushInstanceRouterConfig
&InstanceId=cmgo-a3bm93hf
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "0ad9f471-fb8f-402a-aa78-b1640c6670c4"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error
InternalError.CheckAppIdFailed	`appId` verification failed.
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameterValue	Invalid parameter value

Data Types

Last updated：2023-03-08 12:00:32

BackupDownloadTask

Backup download task information

Used by actions: DescribeBackupDownloadTask.

Name	Type	Description
CreateTime	String	Task creation time
BackupName	String	Backup name
ReplicaSetId	String	Shard name
BackupSize	Integer	Backup size in bytes
Status	Integer	Task status. Valid values: `0` (waiting for execution), `1` (downloading), `2` (downloaded), `3` (download failed), `4` (waiting for retry)
Percent	Integer	Task progress in percentage
TimeSpend	Integer	Task duration in seconds
Url	String	Backup download address
BackupMethod	Integer	Backup type of the backup file. Valid values: `0` (logical backup), `1` (physical backup)
BackupDesc	String	Backup description you set when starting a backup task Note: This field may return `null`, indicating that no valid values can be obtained.

BackupDownloadTaskStatus

The result of the created backup download task

Used by actions: CreateBackupDownloadTask.

Name	Type	Description

ReplicaSetId	String	Shard name
Status	Integer	Task status. Valid values: `0` (waiting for execution), `1` (downloading), `2` (downloaded), `3` (download failed), `4` (waiting for retry)

BackupInfo

Backup information

Used by actions: DescribeDBBackups.

Name	Type	Description
InstanceId	String	Instance ID
BackupType	Integer	Backup mode. 0: automatic backup; 1: manual backup
BackupName	String	Backup name
BackupDesc	String	Backup remarks Note: This field may return null, indicating that no valid values can be obtained.
BackupSize	Integer	Backup file size in KB Note: This field may return null, indicating that no valid values can be obtained.
StartTime	String	Backup start time Note: This field may return null, indicating that no valid values can be obtained.
EndTime	String	Backup end time Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	Backup status. 1: backing up; 2: backed up successful
BackupMethod	Integer	Backup method. 0: logical backup; 1: physical backup

ClientConnection

Client connection information, including client IP and number of connections

Used by actions: DescribeClientConnections.

Name	Type	Description
IP	String	Client IP of a connection

Count	Integer	Number of connections corresponding to a client IP
InternalService	Boolean	Whether it is the Tencent Cloud IP for automated testing

DBInstanceInfo

Instance information

Used by actions: DescribeDBInstances.

Name	Type	Description
InstanceId	String	Instance ID
Region	String	Region information

DBInstancePrice

Instance price

Used by actions: InquirePriceCreateDBInstances, InquirePriceModifyDBInstanceSpec, InquirePriceRenewDBInstances.

Name	Type	Required	Description
UnitPrice	Float	Yes	Unit price. Note: this field may return null, indicating that no valid values can be obtained.
OriginalPrice	Float	Yes	Original price.
DiscountPrice	Float	Yes	Discounted price.

InstanceChargePrepaid

Description on the billing mode of an instance

Used by actions: InquirePriceRenewDBInstances, RenewDBInstances.

Name	Type	Required	Description

Period	Integer	No	Purchased usage period (in month). Valid values: `1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36`. Default value: `1`. (This parameter is required in `InquirePriceRenewDBInstances` and `RenewDBInstances` APIs.)
RenewFlag	String	No	Auto-renewal flag. Valid values: `NOTIFY_AND_AUTO_RENEW`: notify expiration and renew automatically `NOTIFY_AND_MANUAL_RENEW`: notify expiration but not renew automatically `DISABLE_NOTIFY_AND_MANUAL_RENEW`: neither notify expiration nor renew automatically Default value: `NOTIFY_AND_MANUAL_RENEW`. If this parameter is specified as `NOTIFY_AND_AUTO_RENEW`, the instance will be automatically renewed on a monthly basis when the account balance is sufficient. (This parameter is required in `InquirePriceRenewDBInstances` and `RenewDBInstances` APIs.)

InstanceDetail

Instance details

Used by actions: DescribeDBInstances.

Name	Type	Description
InstanceId	String	Instance ID
InstanceName	String	Instance name
PayMode	Integer	Billing type. Valid value: 0 (pay-as-you-go)
ProjectId	Integer	Project ID
ClusterType	Integer	Cluster type. Valid values: `0` (replica set instance), `1` (sharded instance).
Region	String	Region information
Zone	String	AZ information
NetType	Integer	Network type. Valid values: 0 (basic network), 1 (VPC)

VpcId	String	VPC ID
SubnetId	String	Subnet ID of VPC
Status	Integer	Instance status. Valid values: `0` (to be initialized), `1` (in process), `2` (running), `-2` (expired).
Vip	String	Instance IP
Vport	Integer	Port number
CreateTime	Timestamp	Instance creation time
DeadLine	Timestamp	Instance expiration time
MongoVersion	String	Instance version information
Memory	Integer	Instance memory size in MB
Volume	Integer	Instance disk size in MB
CpuNum	Integer	Number of CPU cores of an instance
MachineType	String	Instance machine type
SecondaryNum	Integer	Number of secondary nodes of an instance
ReplicationSetNum	Integer	Number of instance shards
AutoRenewFlag	Integer	Instance auto-renewal flag. Valid values: `0` (manual renewal), `1` (auto-renewal), `2` (no renewal upon expiration)
UsedVolume	Integer	Used capacity in MB
MaintenanceStart	String	Start time of the maintenance time
MaintenanceEnd	String	End time of the maintenance time
ReplicaSets	Array of ShardInfo	Shard information
ReadonlyInstances	Array of DBInstanceInfo	Information of read-only instances
StandbyInstances	Array of DBInstanceInfo	Information of disaster recovery instances
CloneInstances	Array of DBInstanceInfo	Information of temp instances

RelatedInstance	DBInstanceInfo	Information of associated instances. For a regular instance, this field represents the information of its temp instance; for a temp instance, this field represents the information of its regular instance; and for a read-only instance or a disaster recovery instance, this field represents the information of its primary instance.
Tags	Array of TagInfo	Instance tag information set
InstanceVer	Integer	Instance version
ClusterVer	Integer	Instance version
Protocol	Integer	Protocol information. Valid values: `1` (mongodb), `2` (dynamodb).
InstanceType	Integer	Instance type. Valid values: 1 (promoted instance), 2 (temp instance), 3 (read-only instance), 4 (disaster recovery instance)
InstanceStatusDesc	String	Instance status description
RealInstanceId	String	Physical instance ID. For an instance that has been rolled back and replaced, its InstanceId and RealInstanceId are different. The physical instance ID is needed in such scenarios as getting monitoring data from Barad
MongosNodeNum	Integer	Number of mongos nodes Note: This field may return null, indicating that no valid values can be obtained.
MongosMemory	Integer	mongos node memory Note: This field may return null, indicating that no valid values can be obtained.
MongosCpuNum	Integer	Number of mongos nodes Note: This field may return null, indicating that no valid values can be obtained.
ConfigServerNodeNum	Integer	Number of ConfigServer nodes Note: This field may return null, indicating that no valid values can be obtained.
ConfigServerMemory	Integer	Memory of ConfigServer node Note: This field may return null, indicating that no valid values can be obtained.
ConfigServerVolume	Integer	Disk size of ConfigServer node

		Note: This field may return null, indicating that no valid values can be obtained.
ConfigServerCpuNum	Integer	CPU number of ConfigServer node Note: This field may return null, indicating that no valid values can be obtained.
ReadonlyNodeNum	Integer	Number of read-only nodes Note: This field may return null, indicating that no valid values can be obtained.

InstanceEnumParam

The collection of modifiable enum parameters of an instance.

Used by actions: DescribeInstanceParams.

Name	Type	Description
CurrentValue	String	Current value
DefaultValue	String	Default value
EnumValue	Array of String	Acceptable values
NeedRestart	String	Whether to restart the instance for the parameter to take effect. Valid values: `1` (yes), `0` (no, which means the parameter setting takes effect immediately)
ParamName	String	Parameter name
Tips	Array of String	Parameter description
ValueType	String	Data type of the parameter
Status	Integer	Whether `CurrentValue` is the parameter value actually in use. Valid values: `1` (yes), `0` (no)

InstanceIntegerParam

The collection of modifiable integer parameters of an instance.

Used by actions: DescribeInstanceParams.

Name	Type	Description
CurrentValue	String	Current value
DefaultValue	String	Default value
Max	String	Maximum value
Min	String	Minimum value
NeedRestart	String	Whether to restart the instance for the parameter to take effect. Valid values: `1` (yes), `0` (no, which means the parameter setting takes effect immediately)
ParamName	String	Parameter name
Tips	Array of String	Parameter description
ValueType	String	Data type of the parameter
Status	Integer	Whether `CurrentValue` is the parameter value actually in use. Valid values: `1` (yes), `0` (no)
Unit	String	Redundant field which can be ignored

InstanceMultiParam

The collection of modifiable string parameters of an instance which are used to represent time ranges.

Used by actions: DescribeInstanceParams.

Name	Type	Description
CurrentValue	String	Current value
DefaultValue	String	Default value
EnumValue	Array of String	Acceptable values

NeedRestart	String	Whether to restart the instance for the parameter to take effect. Valid values: `1` (yes), `0` (no, which means the parameter setting takes effect immediately)
ParamName	String	Parameter name
Status	Integer	Whether `CurrentValue` is the parameter value actually in use. Valid values: `1` (yes), `0` (no)
Tips	Array of String	Parameter description
ValueType	String	Data type of the current value. Default value: `multi`

InstanceTextParam

The collection of modifiable text parameters of an instance.

Used by actions: DescribeInstanceParams.

Name	Type	Description
CurrentValue	String	Current value
DefaultValue	String	Default value
NeedRestart	String	Whether to restart the instance for the parameter to take effect
ParamName	String	Parameter name
TextValue	String	Value of a text parameter
Tips	Array of String	Parameter description
ValueType	String	Value type
Status	String	Whether `CurrentValue` is the parameter value actually in use. Valid values: `1` (yes), `0` (no)

ModifyNetworkAddress

Database IP to be modified

Used by actions: ModifyDBInstanceNetworkAddress.

Name	Type	Required	Description
NewIPAddress	String	Yes	New IP
OldIpAddress	String	Yes	Old IP

ReplicaSetInfo

Shard information

Used by actions: CreateBackupDownloadTask.

Name	Type	Required	Description
ReplicaSetId	String	Yes	Replica set ID

SecurityGroup

Security group information

Used by actions: DescribeSecurityGroup.

Name	Type	Description
ProjectId	Integer	Project ID
CreateTime	String	Creation time
Inbound	Array of SecurityGroupBound	Inbound rule
Outbound	Array of SecurityGroupBound	Outbound rule
SecurityGroupId	String	Security group ID
SecurityGroupName	String	Security group name
SecurityGroupRemark	String	Security group remarks

SecurityGroupBound

Security group rule

Used by actions: DescribeSecurityGroup.

Name	Type	Description
Action	String	Execution rule. Valid values: `ACCEPT` , `DROP`
CidrIp	String	IP range
PortRange	String	Port range
IpProtocol	String	Transport layer protocol. Valid values: `tcp` , `udp` , `ALL`
Id	String	All the addresses that the security group ID represents
AddressModule	String	All the addresses that the address group ID represents
ServiceModule	String	All the protocols and ports that the service group ID represents
Desc	String	Description

ShardInfo

Details of an instance shard

Used by actions: DescribeDBInstances.

Name	Type	Description
UsedVolume	Float	Used shard capacity
ReplicaSetId	String	Shard ID
ReplicaSetName	String	Shard name
Memory	Integer	Shard memory size in MB
Volume	Integer	Shard disk size in MB
OplogSize	Integer	Shard oplog size in MB
SecondaryNum	Integer	Number of secondary nodes of a shard
RealReplicaSetId	String	Shard physical ID

SlowLogPattern

Slow log statistics of MongoDB database

Used by actions: DescribeSlowLogPatterns.

Name	Type	Description
Pattern	String	Slow log pattern
MaxTime	Integer	Maximum execution time
AverageTime	Integer	Average execution time
Total	Integer	Number of slow logs in this pattern

SpecItem

Specifications of purchasable MongoDB instances

Used by actions: DescribeSpecInfo.

Name	Type	Description
SpecCode	String	Specification information identifier
Status	Integer	Specification purchasable flag. Valid values: 0 (not purchasable), 1 (purchasable)
Cpu	Integer	Computing resource specification in terms of CPU core
Memory	Integer	Memory size in MB
DefaultStorage	Integer	Default disk size in MB
MaxStorage	Integer	Maximum disk size in MB
MinStorage	Integer	Minimum disk size in MB
Qps	Integer	Maximum QPS
Conns	Integer	Maximum number of connections
MongoVersionCode	String	MongoDB version information of an instance
MongoVersionValue	Integer	MongoDB version number of an instance

Version	String	MongoDB version number of an instance (short)
EngineName	String	Storage engine
ClusterType	Integer	Cluster type. Valid values: 1 (sharding cluster), 0 (replica set cluster)
MinNodeNum	Integer	Minimum number of secondary nodes in a replica set
MaxNodeNum	Integer	Maximum number of secondary nodes in a replica set
MinReplicateSetNum	Integer	Minimum number of shards
MaxReplicateSetNum	Integer	Maximum number of shards
MinReplicateSetNodeNum	Integer	Minimum number of secondary nodes in a shard
MaxReplicateSetNodeNum	Integer	Maximum number of secondary nodes in a shard
MachineType	String	Server type. Valid values: 0 (HIO), 4 (HIO10G)

SpecificationInfo

Instance specification information

Used by actions: DescribeSpecInfo.

Name	Type	Description
Region	String	Region information
Zone	String	AZ information
SpecItems	Array of SpecItem	Purchasable specification information
SupportMultiAZ	Integer	Whether cross-AZ deployment is supported. Valid values: `1` (yes), `0` (no).

TagInfo

Instance tag information

Used by actions: CreateDBInstance, CreateDBInstanceHour, DescribeDBInstances.

Name	Type	Required	Description
TagKey	String	Yes	Tag key
TagValue	String	Yes	Tag value

Error Codes

Last updated：2023-03-08 12:00:32

Feature Description

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

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

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

Error Code List

Common Error Codes

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

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

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

Service Error Codes

Error Code	Description
AuthFailure	CAM signature/authentication error
InternalError.CheckAppIdFailed	`appId` verification failed.
InternalError.FindInstanceFailed	Failed to query the instance.
InvalidParameter.CurrentInstanceNotSupportModifyParams	The instance does not support parameter setting.
InvalidParameter.InvalidVip	Invalid Vip information
InvalidParameter.PermissionDenied	The current subaccount has no permission to perform this operation.
InvalidParameter.ZoneClosed	Instances are not purchasable in this AZ.
InvalidParameterValue.BackupFileNotFound	The backup file was not found.

InvalidParameterValue.CheckAppIdFailed	`appId` verification failed.
InvalidParameterValue.ClusterTypeError	Invalid instance type.
InvalidParameterValue.IllegalInstanceName	Invalid instance name
InvalidParameterValue.IllegalInstanceStatus	Invalid instance status
InvalidParameterValue.IllegalStatusToOffline	The instance cannot be deactivated in the current status. Only isolated instances can be deactivated.
InvalidParameterValue.InstanceHasBeenDeleted	The instance has been deleted.
InvalidParameterValue.InstanceHasBeenIsolated	The instance has been isolated.
InvalidParameterValue.InvalidTradeOperation	Billing error. Corresponding purchase/renewal/configuration change operations are not allowed for the current instance.
InvalidParameterValue.LockFailed	Instance lock failed.
InvalidParameterValue.MachineTypeError	Incorrect model.
InvalidParameterValue.ModifyModeError	Memory and disk must be upgraded or degraded simultaneously.
InvalidParameterValue.MongoVersionError	The instance version is incorrect.
InvalidParameterValue.MongoVersionNotSupportQueryClient	The instance version does not support querying the instance client information.
InvalidParameterValue.NotFoundInstance	The instance was not found.
InvalidParameterValue.OplogSizeOutOfRange	The `OplogSize` parameter is set incorrectly and should be between 10% and 90% of the disk capacity.
InvalidParameterValue.PasswordRuleFailed	The password is non-compliant.
InvalidParameterValue.PostPaidInstanceBeyondLimit	The number of postpaid instances in a single region exceeds the limit.
InvalidParameterValue.PrePaidInstanceUnableToIsolate	Prepaid instances cannot be terminated.
InvalidParameterValue.ProjectNotFound	The project does not exist.
InvalidParameterValue.ProxyNotSupportQueryClient	The proxy version does not support querying

	the instance client information. Please submit a ticket for upgrade.
InvalidParameterValue.QueryTimeOutOfRange	Only slow logs generated in the past seven days can be queried.
InvalidParameterValue.QueryTimeRangeBeyondLimit	Only slow logs generated in the past seven days can be queried.
InvalidParameterValue.RegionError	Invalid region
InvalidParameterValue.RegionNotSupportQueryClient	The region does not support querying the instance client information.
InvalidParameterValue.ReplicaSetNumError	Incorrect number of replica sets (shards).
InvalidParameterValue.SecondaryNumError	Incorrect number of secondary nodes.
InvalidParameterValue.SecurityGroupId	Invalid security group ID
InvalidParameterValue.SetDiskLessThanUsed	The disk size to be set cannot be less than 1.2 times the used disk capacity.
InvalidParameterValue.SlowMSBelowLimit	The value of the `slowMS` parameter should be at least 100 ms.
InvalidParameterValue.SpecNotOnSale	Incorrect purchasable specification.
InvalidParameterValue.StartTimeNotBeforeThanEndTime	The start time should be earlier than the end time.
InvalidParameterValue.StatusAbnormal	The instance is in a status where operations are not allowed.
InvalidParameterValue.TagNotFound	The specified tag was not found.
InvalidParameterValue.UserNotFound	The user account does not exist.
InvalidParameterValue.VpcIdOrSubnetIdNotFound	The VPC (subnet) was not found.
InvalidParameterValue.ZoneClosed	Instances are not purchasable in this AZ.
InvalidParameterValue.ZoneError	Invalid availability zone
UnsupportedOperation.VersionNotSupport	The current version does not support the operation.