

Cloud Redis Store

API Documents

Product Introduction



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API Documents

Redis API 2017

Intro

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Welcome to Tencent Cloud CRS!

CRS (Cloud Redis Store) is a caching and storage service that is compatible with Redis protocol. With high availability and high data reliability, it offers user-friendly and reliable Redis services, such as hot backup based on a master/slave architecture, automatic failover, restoration of data to any time point within the last three days, automatic backup, custom configuration of parameters, and viewing of monitoring data.

You can use the APIs described in this document to perform relevant operations on CRS service, such as creating a CRS instance, querying the instance list, and setting the instance password. For supported operations, please see [API Overview](#).

Before using these APIs, please make sure that you have a thorough understanding of CRS [Product Overview](#) and [Service Limits](#).

1. Glossary

Term	Full Name	Full Name	Description
CRS	Cloud Redis Store	Cloud Redis Store	The abbreviation for Tencent Cloud's Cloud Redis Store service
VPC	Virtual Private Cloud	Virtual Private Cloud	Virtual Private Cloud enables you to build an independent network space in Tencent Cloud to customize IP address ranges, IP addresses, routing policies, etc. You can also establish a VPN tunnel through public network/Direct Connect to achieve interconnection between VPC and your other cloud resources and deploy hybrid cloud flexibly.

2. API Quick Start

To use CRS APIs, you need to complete at least the following four steps:

1) Query supported specifications

You can use the API [Query Supported Availability Zones](#) to query the availability zones where the Redis is available, and then use the API [Query Supported Specifications](#) to query the specifications of instances in the availability zones.

2) Query instance price

After confirming the specification of the instance to purchase, use the API [Query Instance Price](#) to query the fee to pay for the instance.

3) Create an instance

Use the API [Create Instance](#) to create an instance. For this reason, you need to provide information such as instance capacity, purchased usage period, availability zone, network to which the instance belongs and the password;

4) Query the creation progress of instance

After initiating the instance creation request, you can use the API [Query Order](#) to query the instance creation progress.

3. Service Limits

Currently, CRS service is available for all users in any case.

API Overview

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1. Region-related APIs

API	Action Name	Description
Query Supported Availability Zones	DescribeRedisZones	Query the list of availability zones where the Redis is available
Query Supported Specifications	DescribeRedisProduct	Query the specifications of purchasable instances, such as maximum capacity, number of instances allowed to be purchased

2. Instance-related APIs

API	Action Name	Description
Query Instance Price (Annual or Monthly Plan)	InquiryRedisPrice	Query the fees charged for creation and renewal of instance
Create Instance (Annual or Monthly Plan)	CreateRedis	Create a Redis instance based on configurations such as specified specification and network and deduct the fee returned by API Query Instance Price from the account balance
Renew Instance (Annual or Monthly Plan)	RenewRedis	Renew a specified instance and deduct the fee returned by API Query Instance Price from the account balance
Query Price for Instance Upgrade (Annual or Monthly Plan)	UpgradeRedisInquiryPrice	Query the fee charged for upgrade of an instance to specified specification

API	Action Name	Description
Upgrade Instance (Annual or Monthly Plan)	UpgradeRedis	Upgrade an instance to specified specification and deduct the fee returned by API Query Price for Instance Upgrade from the account balance
Query Order Details	DescribeRedisDealDetail	Query the details of an order
Set Auto Renewal	SetRedisAutoRenew	Set or cancel auto renewal. When auto renewal is set, the system will renew the instance automatically upon its expiration
Query CRS Instances and Instance List	DescribeRedis	Query the list of instance details based on conditions
Modify CRS Instance Password	ModfiyRedisPassword	Modify the password for an instance
Reset CRS Instance Password	ResetMongoDBPassword	Reset the password for an instance
Modify Project of Redis Instance	ModifyRedisProject	Modify the project to which an instance belongs
Clear CRS Instance	ClearRedis	Clear the instance data
Query CRS Task Result	DescribeTaskInfo	Query the task execution result
Manually Back Up CRS Instance	ManualBackupInstance	Back up a CRS instance manually
Query CRS Instance Backup List	GetRedisBackupList	Query the list of CRS instance backups
Restore CRS Instance	RestoreInstance	Restore a CRS instance
Export Backup of CRS Instance	ExportRedisBackup	Export the backup of a CRS instance
Query Task List of CRS Instance	GetRedisTaskList	Query the task list of a CRS instance

Update History

Last updated : 2017-05-05 14:54:41

Update History

Date	Updates
Nov 29, 2016	Connected to codeDesc error code system
June 16, 2016	APIs including "Query Instance Price", "Purchase New Instance", "Renew Instance", "Upgrade Instance", "Query Orders", "Query Supported Availability Zones" became available
Dec. 4, 2015	APIs including "Clear Instance", "Modify Project of Instance", "Query Instance List" became available

Call Method

Request Structure

Request Structure

Last updated : 2017-10-17 22:11:56

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

1. Service address

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

2. Communication protocol

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

3. Request mode

Tencent Cloud APIs support both POST and GET request modes.

****Note:**

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

4. Request parameters

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

5. Character encoding

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

Public Request Parameters

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A complete Tencent Cloud API request requires two types of request parameters: common request parameter and API request parameter. This document will describe 6 common request parameters used in Tencent Cloud API requests. For more information about API request parameters, please see [API Request Parameters](#).

Common request parameters are required in every API. When developers use Tencent Cloud APIs to send requests, they should make sure that the requests carry these common request parameters, otherwise the requests will fail. In order to differentiate from API request parameters, the initial letters of common request parameters are all capital letters.

Common request parameters are as follows:

Note:

The API examples in this document use Tencent Cloud CVM as example. For other Tencent Cloud products, refer to their instructions accordingly.

Parameter	Description	Type	Required
Action	API name of a specific operation. For example, when a Tencent Cloud CVM user calls the Query Instance List API, the Action parameter is DescribeInstances.	String	Yes
Region	Region parameter which is used to indicate the region of the instance to be operated in. For more information, please see the Regions and Availability Zones list, or use the Query Region List API. Note: 1. This parameter is required in normal conditions unless stated otherwise in the API description. 2. Some of the regions are under internal trial and are only available to certain users.	String	No
Timestamp	The current UNIX timestamp that records the time at which the API request was initiated.	UInt	Yes
Nonce	A random positive integer that is used in conjunction with Timestamp to prevent replay attacks.	UInt	Yes

Parameter	Description	Type	Required
SecretId	SecretId applied from Cloud API Key which is used for identification. Each SecretId corresponds to a unique SecretKey, while SecretKey is used to generate request Signature. For more information, please see Signature Method .	String	Yes
Signature	Request signature which is used to verify the validity of the current request. The signature must be calculated according to input parameters. For more information, please see Signature Method .	String	Yes
SignatureMethod	Signature method. Currently supported methods are HmacSHA256 and HmacSHA1. HmacSHA256 method is used only when the parameter is specified as HmacSHA256, otherwise HmacSHA1 is used to verify signatures. For more information, please see Signature Method .	String	No
Token	Token used for temporary certificate. The token must be used together with temporary key. A long-term key does not require a Token.	String	No

Example

The format of common request parameters in API request links for Tencent Cloud products are shown below. Take Tencent Cloud CVM as example, suppose a user needs to query the list of CVM instances in Guangzhou region, the request link should be:

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

API Request Parameters

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

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

The fields are described as follows:

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

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

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

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

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

Final Request Mode

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The final request URL consists of the following parts:

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

The combination rule for final request parameter strings is:

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

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

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


Return Codes

Return Success Codes

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

Example:

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

Return Error Codes

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If the API call fails, the error code is not 0, and the message field displays error details. You can query specific error information based on the codes and message fields on the [Error codes](#) page.

Example of a returned error:

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

Error Codes

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1. Common Error Codes

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

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

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

2. Module Error Codes

The message field indicates module-related errors.

Example:

"message": "(100004) projectId is incorrect"

It consists of two parts: the module error code is in () and specific error description after ().

Different modules may produce different errors. You can determine errors based on the specific error description.

Signature Method

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The Tencent Cloud API authenticates each access request. Each request is required to include the Signature in its common request parameters for user authentication. The Signature is generated with the user's security credential that consists of a SecretId and a SecretKey. Users who have no security credential can apply for one on Tencent Cloud official website. Otherwise, the Cloud API cannot be called.

Apply for Security Credential

Before using Tencent Cloud's API for the first time, you need to apply for a security credential on "Tencent Cloud Console" > "[API Key Management](#)". A security credential consists of a SecretId and a SecretKey as follows:

- **SecretId** is used to identify the API caller;
- **SecretKey** is a key used to encrypt signature string and verify the signature string by the server.

Note:

API private key is an important credential when building Tencent Cloud API requests. With Tencent Cloud APIs, you can operate all of your Tencent Cloud resources under your account. To keep your property and services secure, please keep the private key well and change it on a timely basis (after you do so, remember to delete the old key in time).

Application Procedure for Getting a Security Credential

1. Log in to the [Tencent Cloud Console](#).
2. Click "Cloud Products", and choose "Cloud API Key" under "Management Tool" to access the Cloud API key management page.



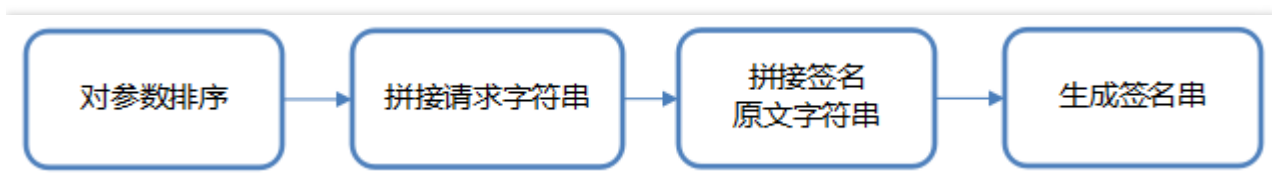
3. On the [API Key Management](#) page, click "New Key" to create a pair of SecretId/SecretKey.

Note:

- A developer account can have two pairs of SecretId/SecretKey at most.
- QQ accounts that are added as sub-users by a developer can apply for different security credentials on different developer consoles.
- For now, the security credential of a sub-user can only be used to call some of cloud APIs.

Generate a Signature String

With the SecretId and SecretKey, a signature string can be generated. The detailed procedure of how to generate a signature string is described as follows:



Suppose that you have the following SecretId and SecretKey:

SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA

SecretKey=Gu5t9xGARNpq86cd98joQYCN3Cozk1qA

Note:

This is just an example. You need to proceed with your actual SecretId, SecretKey and request parameters.

Let's take Tencent Cloud CVM as an example. When the user calls the API of Tencent Cloud CVM's [View Instance List](#) (DescribeInstances), the request parameters are as follows:

Parameter Name	Description	Parameter Value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
Timestamp	Current timestamp	1465185768
Nonce	A random positive integer	11886
Region	Region where the instance resides in	ap-guangzhou
SignatureMethod	Signature Method	HmacSHA256
InstanceId.0	ID of the instance to be queried	ins-09dx96dg

1. Sort Parameters

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

```
{
  "Action" : "DescribeInstances",
  "Nonce" : 11886,
  "Region" : "ap-guangzhou",
  "SecretId" : "AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA",
  "SignatureMethod" : "HmacSHA256",
```

```
"Timestamp" : 1465185768,  
"InstanceId.0" : "ins-09dx96dg"  
}
```

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

2. Generate a Request String

This step is to generate a request string.

Format the above sorted request parameters as "parameter name"="parameter value". Let's take the parameter "Action" as an example. If the parameter value is "DescribeInstances", the resulting format is Action=DescribeInstances.

Note:

1. "Parameter value" is the original value instead of URL encoded value.
2. Any underscore in the input parameters needs to be converted to ".". However, the underscore in Value does not need to be converted. For example, Placement_Zone=CN_GUANGZHOU needs to be converted to Placement.Zone=CN_GUANGZHOU.

Then, join the formatted parameters together by "&" to generate the final request string (please ignore line breaks in the following text):

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

3. Generate an Original Signature String

This step is used to generate an original signature string.

The construction rule of an original signature string is as follows:

Request Method + Request CVM Server + Request Path + ? + Request String

Description of the parameter structure:

- **Request method:** The POST and GET methods are supported. In this case, a GET request is used. Please note that the methods must be in upper-case.
- **Request CVM Server:** namely CVM Server domain name. The request domain name is determined by the product or the product module to which the API belongs. This domain name is different for different products or product modules. For example, the request domain name for Tencent Cloud CVM API for querying instance lists (DescribeInstances) is: `cvm.api.qcloud.com` . For more information of product request domain names, please see the description for each API.
- **Request path:** This is the request path for the corresponding Tencent Cloud API product. Each product usually corresponds to one fixed path. For example, the request path for Tencent Cloud CVM is always `/v2/index.php` .
- **Request string:** namely the request string generated in the previous step.

Thus, the result of generating the original signature string in the said example is as follows (please ignore line breaks in the following text):

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

4. Generate a Signature String

This step is used to generate a signature string.

Note:

There are two methods to calculate a signature, that is, HmacSHA256 and HmacSHA1. A signature string will be generated with the signature algorithm (namely the SignatureMethod parameter) specified by you. When HmacSHA256 is taken as SignatureMethod, the signature will be calculated with HmacSHA256, while in other cases, the signature will be calculated with HmacSHA1.

Sign the **original signature string** obtained in the previous step with HMAC-SHA1 algorithm, and then encode the generated signature string with Base64 to obtain the final signature string.

Let's take PHD language as an example. Because the signature algorithm of **HmacSHA256** is adopted in this example, the codes used to generate the signature string are as follows (when the signature string program is developed in other programming languages, the original signature string in the said example can be used for verification; if the resulting signature string is the same with that in the example, the program will be acceptable):

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

The resulting signature string is as follows:

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

Similarly, when **HmacSHA1** is taken as the signature algorithm, the codes of the resulting signature string are as follows:

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

The final signature string is as follows:

```
nPVnY6njQmwQ8ciqbPI5Qe+Oru4=
```

Encode a Signature String

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

For example, if the signature string generated in the previous step is

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

, it is converted to

0EEem/HtGRr/VJXTAD9tYMth1Bzm3lLHz5RCDv1GdM8s= after being encoded. Therefore, the resulting signature string request parameter (Signature) is

0EEem/HtGRr/VJXTAD9tYMth1Bzm3ILHz5RCDv1GdM8s= , which will be used to generate the final request URL.

Note:

If GET method is used, all request parameters need to be encoded with URL encoding. Some language libraries will automatically encode URLs. Reduplicate encoding will cause signature authentication to fail.

Authentication failed

The following table lists possible errors when authentication fails:

Error Code	Error Type	Error Description
4100	Identity verification failed	Identity verification failed. Please make sure that the Signature in the request parameter is calculated correctly according to the said procedure., especially note that a request can be initiated again only after the Signature has been encoded with URL encoding.
4101	Not authorized by the developer to access this API	The sub-user is not authorized to call this API. Please contact the developer for authorization. For more information, please see Authorization Policy .
4102	Not authorized by the developer to access the resources operated by this API	The user is not authorized by the developer to access some of the requested resources. Please check the message field for the ID of resources that you're not authorized to access. Please contact the developer for authorization. For more information, please see Authorization Policy .
4103	This API is currently not available for non-developer's SecretId	The sub-user with this SecretID cannot call this API. Only the developer is authorized to call this API.
4104	SecretId does not exist	Non-existence of SecretId used for signature may also be caused by incorrect private key status. Please make sure the API key is valid and is not disabled.

Error Code	Error Type	Error Description
4110	Authentication Failed	Permission verification failed. Please make sure you are permitted to access this resource.
4500	Replay attack error	Please note that the parameters of Nonce in two requests should not be identical and the time difference between the Timestamp and Tencent CVM should not be greater than 2 hours.

Use Case

Last updated : 2017-05-05 16:44:04

In order to help you get started with Tencent Cloud Redis (CRS) APIs quickly, we provide an example on how to use these APIs.

This example will show you how to create a CRS instance: First, you need to query the supported specification of the instance; then query the fee for creating the instance, then create the instance using the API "Create Instance", and finally query the instance creation progress using the API "Query Oder Details".

1. Query Supported Specifications

Before creating an instance, we first need to query the availability zones where the instance is available. You can use the API [Query Supported Availability Zones](#) for the query, or use the API [Query Supported Specifications](#) to query the limits on the instance creation.

Here, we use the API [Query Supported Specifications](#) to query the supported specifications for all availability zones by leaving the input parameter empty.

By combining common request parameters and API request parameters, you can get the final request as follows:

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

The returned results of the above request are as follows:

```
{  
  "code": 0,  
  "message": "",  
  "codeDesc": "Success",  
  "data": [  
    {
```

```
"zoneId": 100002,
"name": "Guangzhou Zone 2",
"types": {
  "1": {
    "type": 1,
    "typeName": "Cluster",
    "minMemSize": 1024,
    "maxMemSize": 204800,
    "minBuyNum": 1,
    "maxBuyNum": 10
  },
  "2": {
    "type": 2,
    "typeName": "Standalone",
    "minMemSize": 1024,
    "maxMemSize": 512000,
    "minBuyNum": 1,
    "maxBuyNum": 10
  }
},
{
  "zoneId": 200001,
  "name": "Shanghai Zone 1",
  "types": {
    "1": {
      "type": 1,
      "typeName": "Cluster",
      "minMemSize": 1024,
      "maxMemSize": 204800,
      "minBuyNum": 1,
      "maxBuyNum": 10
    },
    "2": {
      "type": 2,
      "typeName": "Standalone",
      "minMemSize": 1024,
      "maxMemSize": 204800,
      "minBuyNum": 1,
      "maxBuyNum": 10
    }
  },
  {
    "zoneId": 300001,
```

```

"name": "Hong Kong Zone 1",
"types": {
  "2": {
    "type": 2,
    "typeName": "Standalone",
    "minMemSize": 1024,
    "maxMemSize": 40960,
    "minBuyNum": 1,
    "maxBuyNum": 10
  }
},
{
  "zoneId": 400001,
  "name": "North America Zone 1",
  "types": {
    "2": {
      "type": 2,
      "typeName": "Standalone",
      "minMemSize": 1024,
      "maxMemSize": 204800,
      "minBuyNum": 1,
      "maxBuyNum": 10
    }
  }
}
]
}

```

The returned values are the supported specifications for various availability zones, with each element referring to the supported specification for an availability zone. Take the specification of cluster instance for Guangzhou Zone 2 in the returned values as an example, the fields are defined as below:

Parameter Name	Description	Value
zoneId	Availability zone ID	100002
name	Availability zone name	Guangzhou Zone 2
types.1	Object of supported specification	Array
types.1. type	Instance type, 1 - Cluster, 2 - Standalone	1
types.1. typeName	Type name	Cluster

Parameter Name	Description	Value
types.1.mimMemSize	Minimum capacity of a cluster instance allowed to be purchased (in MB)	1024
types.1.maxMemSize	Maximum capacity of a cluster instance allowed to be purchased (in MB)	204800
types.1.minBuyNum	Minimum number of cluster instances allowed to be purchased	1
types.1.minBuyNum	Maximum number of cluster instances allowed to be purchased	10

2. Query the Price for Creating an Instance

A fee for the creation of an instance will be deducted from the account balance. You can use the API [Query Instance Price](#) to query the fee. Let's suppose that we purchase a cluster instance from Guangzhou Zone 2, then the input parameters for querying the price are as follows:

Parameter Name	Description	Value
zoneld	The availability zone to which the instance belongs	100002 (Guangzhou Zone 2)
typeld	1: Cluster; 2: Standalone	1 (Cluster)
memSize	The capacity of the purchased instance (in MB); the value range is subject to the returned values of API Query Supported Specifications	1024
goodsNum	The number of the purchased instances. The value range is subject to the returned values of API Query Supported Specifications	1
period	The purchased usage period (in month); value range: [1, 36]	2

By combining common request parameters and API request parameters, you can get the final request as follows:

```
https://redis.api.qcloud.com/v2/index.php?  
Action=InquiryRedisPrice  
&Timestamp=1468328627
```



```
&Nonce=51897
&SecretId=AKIDVxZ0PsvtPCgNEtsO0pSFwqkeTMFCu7z1
&Signature=u34AneL09yCx50BwrUZtibiHxNw=
&Region=gz
&zoneId=100002
&typeId=1
&memSize=1024
&goodsNum=1
&period=2
```

According to the returned values, the total price for the instance with the above specification is 160 CNY.

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "price": 16000
  }
}
```

3. Create an Instance

Next, we will call the API [Create Instance](#) based on the above specification. The input parameters are as follows:

Parameter Name	Description	Value
zoneId	The availability zone to which the instance belongs	100002 (Guangzhou Zone 2)
typeId	Instance type. 1: Cluster; 2: Standalone	1 (Cluster)
vpcId	VPC ID. Set to 0 if it is basic network	0 (basic network)
memSize	The capacity of the purchased instance (in MB); the value range is subject to the returned values of API Query Supported Specifications	1024

Parameter Name	Description	Value
goodsNum	The number of the purchased instances. The value range is subject to the returned values of API Query Supported Specifications	1
period	The purchased usage period (in month); value range: [1, 36]	2
password	Password for the instance	49A2d!e@f12e

By combining common request parameters and API request parameters, you can get the final request as follows:

```
https://redis.api.qcloud.com/v2/index.php?
Action=CreateRedis
&Timestamp=1468328920
&Nonce=27412
&SecretId=AKIDVxZ0PsvtPCgNEtsO0pSFwqkeTMFCu7z1
&Signature=4Dvpkk1bJov/Ud/EIWjAHfJaoD8=
&zonedId=100002
&typeId=1
&vpId=0
&memSize=1024
&goodsNum=1
&period=2
&password=49A2d!e@f12e
```

Returned result:

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "dealId": "432583"
  }
}
```

4. Query Order Details

After creating the instance, you can use the API [Query Order Details](#) to query the order details.

Parameter Name	Description	Value
dealIds.n	List of order IDs	432583

By combining common request parameters and API request parameters, you can get the final request as follows:

```
https://redis.api.qcloud.com/v2/index.php?  
Action=DescribeRedisDealDetail  
&Timestamp=1468329117  
&Nonce=40727  
&SecretId=AKIDVxZ0PsvtPCgNEtsO0pSFwqkeTMFCu7z1  
&Signature=Y9rMVWyyvjoijSl6zJxMW822edGk%3D  
&dealIds.0=432583
```

The output is as follows:

```
{  
  "code": 0,  
  "message": "",  
  "codeDesc": "Success",  
  "dealDetails": [  
    {  
      "dealId": "432583",  
      "dealName": "20160712110021",  
      "zoneId": 100002,  
      "goodsNum": 1,  
      "creator": "3227991405",  
      "creatTime": "2016-07-06 21:10:11",  
      "overdueTime": "2016-07-16 21:10:11",  
      "endTime": "2016-07-06 21:11:17",  
      "status": 4,  
      "description": "Delivery succeeded",  
      "price": 16000,  
      "goodsDetail": {  
        "memSize": 1024,  
        "timeSpan": 2,  
        "timeUnit": "m",  
        "redisIds": [  
          "crs-ifmymj41"
```

```
]
}
}
]
}
```

Descriptions of returned fields:

Parameter Name	Description	Value
dealId	Order ID	432583
dealName	Order name	20160712110021
zoneId	The availability zone to which the instance belongs	100002 (Guangzhou Zone 2)
goodsNum	Number of purchased instances	1
creator	Creator of order	3227991405
creatTime	Creation time of order	2016-07-06 21:10:11
overdueTime	Expiration time of order	2016-07-21 17:24:37
endTime	Completion time of order	2016-07-06 21:11:17
status	Order status	4
description	Description of order status	"Delivery succeeded"
price	Order amount (in 0.01 CNY)	16,000
goodsDetail.memsize	Instance specification (in MB)	1024
goodsDetail.timeSpan	Purchased usage period	2
goodsDetail.timeUnit	Unit of usage period: m - Month, d - Day	m (Month)
goodsDetail.redisIds	List of redisIds for the purchased CRS instances in the order	crs-ifmymj41

Region API

Query Sale Region

Last updated : 2017-12-06 16:22:49

1. API Description

This API (DescribeRedisZones) is used to query supported availability zones.

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

This API can be used to create the list of availability zones where the Redis can be created. An availability zone where the CRS instance is not available for the user will not be included in the returned list. You can apply for the purchase of the whitelist of a region by submitting a [Ticket](#).

2. Input Parameters

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

Parameter Name	Required	Type	Description
None	None	None	None

3. Output Parameters

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

Parameter Name	Type	Description
data	Array	
data.zones	Array	List of all the availability zones
data.zones.100002	String	The availability zone name corresponding to the availability zone ID. For example, for the availability zone ID 10002, the availability zone name is Guangzhou Zone 2

4. Error Codes

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

Error Code	Error Message	Error Description
11052	UserNotInWhiteList	The user is not in the whitelist

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=DescribeRedisZones
&<Common Request Parameters>
```

Output

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "zones": [
      {
        "100002": "Guangzhou Zone 2"
      },
      {
        "200001": "Shanghai Zone 1"
      }
    ]
  }
}
```

```
{  
  "300001": "Hong Kong Zone 1"  
},  
{  
  "400001": "North America Zone 1"  
}  
]  
,  
}
```

Query Sale Specification

Last updated : 2017-12-06 16:22:34

1. API Description

This API (DescribeRedisProduct) is used to query supported specifications.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
zonelds.n	No	String	An array of availability zone IDs, with the array subscript starting from 0. If this parameter is not specified, the product information of all the availability zones will be returned. The available values are subject to the returned values of API Query Supported Availability Zones
typeld	No	UInt	Instance type: 1 - Cluster, 2 - Standalone, 0 - Both

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.

Parameter Name	Type	Description
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Array	Returned instance data array

Array data is composed as follows:

Parameter Name	Type	Description
zoneld	Array	ID of availability zone
name	String	Name of availability zone
data.types	Array	Array of instance types

Array data.types is composed as follows:

Parameter Name	Type	Description
data.types.typeId	UInt	Array of instance type IDs

Array data.types.typeId is composed as follows:

Parameter Name	Type	Description
data.types.typeId.type	UInt	Instance type: 1 - Cluster; 2 - Standalone
data.types.typeId.typeName	String	Name of instance type
data.types.typeId.minMemSize	UInt	Minimum capacity of an instance (in MB)
data.types.typeId.maxMemSize	UInt	Maximum capacity of an instance (in MB)
data.types.typeId.minBuyNum	UInt	Minimum number of instances allowed to be purchased at a time
data.types.typeId.maxBuyNum	UInt	Maximum number of instances allowed to be purchased at a time

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
11052	UserNotInWhiteList	The user is not in the whitelist

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=DescribeRedisProduct
&<<a href="https://cloud.tencent.com/doc/api/229/6976">Common Request Parameters</a>>
&zonedId=100002
&typeId=1
```

Output

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": [
    {
      "zoneId": 100002,
      "name": "Guangzhou Zone 2",
      "types": {
        "1": {
          "type": 1,
          "typeName": "Cluster",
          "minMemSize": 1024,
          "maxMemSize": 204800,
          "minBuyNum": 1,
          "maxBuyNum": 10
        }
      }
    }
  ]
}
```

Instance API

Query Price of CRS Instance

Last updated : 2017-12-06 16:11:44

1. API Description

This API (InquiryRedisPrice) is used to query the prices for purchasing and renewing an instance. To query the price for upgrading an instance, please see [Query Price for Instance Upgrade](#).

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

2. Input Parameters

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

The Action field for this API is InquiryRedisPrice.

Parameter Name	Required	Type	Description
zoneld	Yes	UInt	The availability zone to which the instance belongs. This value is subject to the returned values of API Query Supported Availability Zones
typeld	Yes	UInt	Instance type. 1 - Cluster; 2 - Standalone
memSize	Yes	UInt	Capacity of instance, which is an integral multiple of 1024 (in MB). This value is subject to the returned values of API Query Supported Specifications
goodsNum	Yes	UInt	Number of instances. This value is subject to the returned values of API Query Supported Specifications
period	Yes	UInt	Purchased or renewed usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]

3. Output Parameters

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

Array data is composed as follows:

Parameter Name	Type	Description
data.price	Int	The total price for purchasing or renewing an instance (in 0.01 CNY)

4. Error Codes

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

Error Code	Error Message	Error Description
11052	UserNotInWhiteList	The user is not in the whitelist
10000	NoRedisService	The Redis service is not available in the requested zone
11062	NoTypeIdRedisService	The Redis service of the requested type is not available in the requested zone
11053	InvalidInstanceId	The type of the instance to purchase is incorrect (TypeId 1: Cluster; 2: Master-Slave (the former Standalone version))
10703	InvalidMemSize	The requested capacity is not included in the supported specifications (memSize (in MB) should be an integral multiple of 1024)
11063	MemSizeNotInRange	The requested capacity is not within the range of supported capacities (please use the API Query Supported Specifications to query the limits on the capacity)

Error Code	Error Message	Error Description
11065	PeriodExceedMaxLimit	The purchased usage period exceeds the maximum usage period
11066	PeriodLessThanMinLimit	The purchased usage period is less than the minimum usage period
11064	GoodsNumNotInRange	The number of instances purchased at a time exceeds the maximum number of instances allowed to be purchased (please use the API Query Supported Specifications to query the limits on the number of instances allowed to be purchased)

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=InquiryRedisPrice
&<<a href="https://cloud.tencent.com/doc/api/229/6976">common request parameters</a>>
&zonedId=100002
&typeId=1
&memSize=1024
&goodsNum=1
&period=2
```

Output

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "price": 16000
  }
}
```

Create CRS Instance

Last updated : 2017-12-06 16:13:09

1. API Description

This API (CreateRedis) is used to create an instance.

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

- 1) Instance capacity, measured in MB, is an integral multiple of 1024 and has a range subject to the specification returned via API [Query Supported Specifications](#). Value range: [data.types.minMemSize, data.types.maxMemSize]. The default value ranges for standalone instance and cluster instance are [1024MB, 61440MB] and [1024MB, 307200MB], respectively.
- 2) Number of instances to be purchased at a time should be subject to the specification returned via the API [Query Supported Specifications](#). Value range: [data.types.minBuyNum, data.types.maxBuyNum], and default is: [1, 100]
- 3) Purchased usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]
- 4) Rule on password: It should be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers, special characters (!, @, #, %, ^, ()).
- 5) You can apply for the purchase of an instance from an availability zone by submitting a [Ticket](#)

2. Input Parameters

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

Parameter Name	Required	Type	Description
zoneId	Yes	UInt	ID of the availability zone to which the instance belongs
typeId	Yes	UInt	Instance type. 1 - Cluster; 2 - Standalone
memSize	Yes	UInt	Instance capacity (in MB), with the value being subject to the specification returned via the API Query Supported Specifications . Value range: [data.types.minMemSize, data.types.maxMemSize]

Parameter Name	Required	Type	Description
goodsNum	Yes	UInt	Number of instances. The number of instances to be purchased at a time should be subject to the specification returned via the API Query Supported Specifications . Value range: [data.types.minBuyNum, data.types.maxBuyNum]
period	Yes	Int	Purchased usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]
password	Yes	String	Password for the instance. Rule: It should be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers, special characters (!, @, #, %, ^, ())
vpclId	No	UInt	This parameter is retained for historical reasons. It is recommended to use the following parameter unVpclId. VPC ID. If it is left empty, the default is basic network.
unVpclId	No	String	VPC ID. If it is left empty, the default is basic network. This value is subject to the unVpclId returned by API Query VPC List , such as: vpc-kd7d06of
subnetId	No	UInt	This parameter is retained for historical reasons. It is recommended to use the following parameter unSubnetId. Subnet ID under VPC. If vpclId is set, subnetId is required.
unSubnetId	No	String	subnetId is invalid under basic network; Under VPC, the value is subject to the unSubnetId returned by the API Query Subnet List , such as subnet-3lzksp0
projectId	No	UInt	Project ID. The value is subject to the projectId returned via User Account > User Account-related APIs > Query Project List

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message description. A null value indicates a success

Parameter Name	Type	Description
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Array	Returned array of orders

Array data is composed as follows:

Parameter Name	Type	Description
data.dealId	String	Order ID. You can use DescribeRedisDealDetail to query order details

4. Error Codes

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

Error Code	Error Message	Error Description
11052	UserNotInWhiteList	The user is not in the whitelist
10000	NoRedisService	The Redis service is not available in the requested zone
11062	NoTypeIdRedisService	The Redis service of the requested type is not available in the requested zone
11053	InvalidInstanceId	The type of the instance to purchase is incorrect (TypeId 1: Cluster; 2: Master-Slave (the former Standalone version))
10703	InvalidMemSize	The requested capacity is not included in the supported specifications (memSize (in MB) should be an integral multiple of 1024)

Error Code	Error Message	Error Description
11063	MemSizeNotInRange	The requested capacity is not within the range of supported capacities (please use the API Query Supported Specifications to query the limits on the capacity)
11065	PeriodExceedMaxLimit	The purchased usage period exceeds the maximum usage period
11066	PeriodLessThanMinLimit	The purchased usage period is less than the minimum usage period
11064	GoodsNumNotInRange	The number of instances purchased at a time exceeds the maximum number of instances allowed to be purchased (please use the API Query Supported Specifications to query the limits on the number of instances allowed to be purchased)
11067	OnlyVPCOnSpecZoneId	Only the Redis service under VPC is available in the requested zone
11054	InvalidSubnetId	ID of the subnet under the VPC does not exist
10501	PasswordEmpty	Password is left empty
11058	PasswordRuleError	Incorrect password rule. The password must be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers and special characters (!, @, #, %, ^, *, ())
100207	OperationConstraints.AccountBalanceNotEnough	Insufficient account balance. Please top it up.

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=CreateRedis
&<common request parameters>
&zoneId=100002
&typeId=1
&memSize=1024
&goodsNum=1
&period=2
&password=49A2d!e@f12e
```

Output

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "dealId": "432583"
  }
}
```

Renew CRS Instance

Last updated : 2017-12-06 16:13:58

1. API Description

This API (RenewRedis) is used to renew an instance.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	Instance ID. It can be queried with the API Query CRS Instance List
period	Yes	Int	Purchased usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]

3. Output Parameters

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

Array data is composed as follows:

Parameter Name	Type	Description
data.dealId	String	Unique order ID. You can use the API DescribeRedisDealDetail to query order details

4. Error Codes

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

Error Code	Error Message	Error Description
10701	InstanceNotExists	No instance can be found for the serialId
11055	InstanceDeleted	The instance has been reclaimed upon expiration
11056	InstanceBeenLocked	The operation is impossible because the instance is locked by another process
11065	PeriodExceedMaxLimit	The purchased usage period exceeds the maximum usage period
11066	PeriodLessThanMinLimit	The purchased usage period is less than the minimum usage period
100207	OperationConstraints.AccountBalanceNotEnough	Insufficient account balance. Please top it up.

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=RenewRedis
&<Common Request Parameters>
```

```
&redisId=crs-ifmymj41  
&period=1
```

Output

```
{  
  "code": "0",  
  "message": "",  
  "codeDesc": "Success",  
  "data": {  
    "dealId": "432586"  
  }  
}
```

Query Price of Upgrading CRS Instance

Last updated : 2017-12-06 16:15:42

1. API Description

This API (UpgradeRedisInquiryPrice) is used to query the price for instance upgrade.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description	
redisId	Yes	String	Instance ID	
memSize	Yes	UInt	The capacity of upgraded instance, which should be an integral multiple of 1024 (in MB)	This value must be greater than the current instance capacity, and is subject to the returned values of API Query Supported Specifications

3. Output Parameters

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

Parameter Name	Type	Description
data	Array	Returned array of prices

Array data is composed as follows:

Parameter Name	Type	Description
data.price	Int	The total price for upgrade (in 0.01 CNY)

4. Error Codes

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

Error Code	Error Message	Error Description
10701	InstanceNotExists	No instance can be found for the serialId
10703	InvalidMemSize	The requested capacity is not included in the supported specifications (memSize (in MB) should be an integral multiple of 1024)
11063	MemSizeNotInRange	The requested capacity is not within the range of supported capacities (please use the API Query Supported Specifications to query the limits on the capacity)
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"
11057	ReduceCapacityNotAllowed	The requested capacity is less than the actual capacity of the instance. Reduction of capacity is not supported currently

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=UpgradeRedisInquiryPrice
&<Common Request Parameters>
&redisId=crs-ifmymj41
&memSize=2048
```

Output

```
{
  "code": "0",
  "message": "",
  "codeDesc": "Success",
  "data": {
    "price": 24460
  }
}
```


Upgrade CRS Instance

Last updated : 2017-12-06 16:16:53

1. API Description

This API (UpgradeRedis) is used to upgrade an instance.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	Instance ID. It can be queried with the API Query CRS Instance List
memSize	Yes	UInt	The capacity of upgraded instance, which should be an integral multiple of 1024 (in MB)
			This value must be greater than the current instance specification, and is subject to the returned values of API Query Supported Specifications

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message description. A null value indicates a success

Parameter Name	Type	Description
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Array	Returned array

Array data is composed as follows:

Parameter Name	Type	Description
data.dealId	String	Unique order ID. You can use the API DescribeRedisDealDetail to query order details

4. Error Codes

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

Error Code	Error Message	Error Description
10701	InstanceNotExists	No instance can be found for the serialId
10703	InvalidMemSize	The requested capacity is not included in the supported specifications (memSize (in MB) should be an integral multiple of 1024)
11063	MemSizeNotInRange	The requested capacity is not within the range of supported capacities (please use the API Query Supported Specifications to query the limits on the capacity)

Error Code	Error Message	Error Description
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"
11057	ReduceCapacityNotAllowed	The requested capacity is less than the actual capacity of the instance. Reduction of capacity is not supported currently
100207	OperationConstraints.AccountBalanceNotEnough	Insufficient account balance. Please top it up.

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=UpgradeRedis
&<Common Request Parameters>
&redisId=crs-ifmymj41
&memSize=2048
```

Output

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

Query Details of CRS Order

Last updated : 2017-12-06 16:17:51

1. API Description

This API (DescribeRedisDealDetail) is used to query the details of an order.

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

2. Input Parameters

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

The Action field for this API is DescribeRedisDealDetail.

Parameter Name	Required	Type	Description
dealIds.n	Yes	String	An array of order numbers, with the array subscript starting from 0

3. Output Parameters

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

Array dealDetails is composed as follows:

Parameter Name	Type	Description
dealDetails.dealId	String	Order ID. Use this ID when calling the cloud API
dealDetails.dealName	String	Long order ID. Use this ID when reporting the order-related problems to customer service
dealDetails.zonId	Int	ID of availability zone
dealDetails.goodsNum	Int	Number of instances associated with the order
dealDetails.creator	String	UIN of creator
dealDetails.creatTime	String	Creation time of order
dealDetails.overdueTime	String	Expiration time of order
dealDetails.endTime	String	Completion time of order
dealDetails.status	Int	Order status 1: Unpaid 2: Paid, Undelivered 3: Delivering 4: Delivery succeeded 5: Delivery failed 6: Refunded 7: Order closed 8: Order expired 9: Order invalidated 10: Product invalidated 11: Payment by agent rejected 12: Payment is in progress
dealDetails.description	String	Description of order status
dealDetails.price	Int	Actual total price of order (in 0.01 CNY)
dealDetails.goodsDetail	Array	Returned array. goodsDetail varies with different orders

goodsDetail array of created instance:

Parameter Name	Type	Description
memSize	int	Capacity of instance (in MB)
timeSpan	int	Purchased usage period. The unit is subject to timeUnit

Parameter Name	Type	Description
timeUnit	String	Unit of purchased usage period. m - month, d - day
redisIds	Array	List of associated redisIds

goodsDetail array of renewed instance:

Parameter Name	Type	Description
curDeadline	String	Expiration time of instance before renewal
memSize	int	Capacity of instance (in MB)
timeSpan	int	Purchased usage period. The unit is subject to timeUnit
timeUnit	String	Unit of purchased usage period. m - month, d - day
redisIds	Array	List of associated redisIds

goodsDetail array of upgraded instance:

Parameter Name	Type	Description
oldMemSize	int	Capacity of instance before upgrade (in MB)
newMemsize	int	Capacity of instance after upgrade (in MB)
redisIds	Array	List of associated redisIds

4. Error Codes

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

Error Code	Error Message	Error Description
11059	DealIdNotFound	Order ID does not exist

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=DescribeRedisDealDetail
&<common request parameters>
&dealIds.0=432583
&dealIds.1=432586
&dealIds.2=432587
```

Output

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "dealDetails": [
    {
      "dealId": "432583",
      "dealName": "20160712110021",
      "zoneId": 100002,
      "goodsNum": 1,
      "creator": "3227991405",
      "createTime": "2016-07-12 21:10:11",
      "overdueTime": "2016-07-27 21:10:11",
      "endTime": "2016-07-12 21:11:17",
      "status": 4,
      "description": "Delivery succeeded",
      "price": 16000,
      "goodsDetail": {
        "memSize": 1024,
        "timeSpan": 2,
        "timeUnit": "m",
        "redisIds": [
          "crs-ifmymj41"
        ]
      }
    },
    {
      "dealId": "432586",
      "dealName": "20160712110027",
      "zoneId": 100002,
      "goodsNum": 1,
      "creator": "3227991405",
      "createTime": "2016-07-12 22:05:43",
      "overdueTime": "2016-07-27 22:05:43",
```

```
"endTime": "2016-07-12 22:05:45",
"status": 4,
"description": "Delivery succeeded",
"price": 8000,
"goodsDetail": {
  "curDeadline": "2016-09-12 21:10:13",
  "memSize": 1024,
  "timeSpan": 1,
  "timeUnit": "m",
  "redisIds": [
    "crs-ifmymj41"
  ]
},
{
  "dealId": "432587",
  "dealName": "20160712110029",
  "zoneId": 100002,
  "goodsNum": 1,
  "creator": "3227991405",
  "creatTime": "2016-07-12 22:15:55",
  "overdueTime": "2016-07-27 22:15:55",
  "endTime": "2016-07-12 22:16:59",
  "status": 4,
  "description": "Delivery succeeded",
  "price": 24460,
  "goodsDetail": {
    "oldMemSize": 1024,
    "newMemsize": 2048,
    "redisIds": [
      "crs-ifmymj41"
    ]
  }
}
]
```


Query CRS Instance and Instance List

Last updated : 2017-07-24 11:27:04

1. API Description

This API (DescribeRedis) is used to query the list of CRS instances.

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

2. Input Parameters

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

The Action field for this API is DescribeRedis.

Parameter Name	Required	Type	Description
limit	Yes	Int	Length of a page
offset	Yes	Int	Current page number.
redisId	String	Instance ID	
redisName	No	String	Instance name
orderBy	No	String	Enumeration range: redisId, projectId, createtime
orderType	No	Int	1: Backward sequence; 0: Forward sequence. The default is backward sequence
vpcIds.n	No	Int	This parameter is retained for historical reasons. It is recommended to use the following parameter unVpcIds. Array of VPC IDs, with the array subscript starting with 0. If it is left empty, the default is basic network
unVpcIds.n	No	String	An array of VPC IDs, with the array subscript starting with 0. If it is left empty, the default is basic network. This value is subject to the unVpcId returned by API Query VPC List , such as: vpc-kd7d06of

Parameter Name	Required	Type	Description
subnetIds.n	No	Int	This parameter is retained for historical reasons. It is recommended to use the following parameter unSubnetIds An array of subnet IDs under VPC, with the array subscript starting with 0
unSubnetIds.n	No	String	An array of subnet IDs, with the array subscript starting with 0. Under the VPC subnet, this value is subject to the unSubnetId returned by API Query Subnet List , such as subnet-3lzkspo
projectIds.n	No	String	An array of project IDs, with the array subscript starting with 0.

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Module error message description depending on API.
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
totalCount	Int	Number of instances
data	Array	
data.redisSet	Array	
data.redisSet.redisName	String	Instance name
data.redisSet.redisId	String	Unique ID of instance
data.redisSet.appid	Int	appid
data.redisSet.projectId	Int	Project ID

Parameter Name	Type	Description
data.redisSet.regionId	Int	Region ID
data.redisSet.zoneId	Int	Zone ID
data.redisSet.vpcId	Int	VPC ID (not recommended)
data.redisSet.unVpcId	String	VPC ID (recommended)
data.redisSet.subnetId	Int	ID of a subnet under VPC (not recommended)
data.redisSet.unSubnetId	String	ID of a subnet under VPC (recommended)
data.redisSet.status	Int	Current status of instance. 0: To be initialized; 1: In process; 2: Running; -2: Isolated
data.redisSet.statusDesc	String	Description of instance status
data.redisSet.wanIp	String	Instance VIP
data.redisSet.port	Int	Instance port number
data.redisSet.createtime	String	Creation time of instance
data.redisSet.size	Int	Instance capacity (in MB)
data.redisSet.sizeUsed	Int	Used capacity of instance (in MB)
data.redisSet.typeId	Int	Instance type. 1: Cluster; 2: Standalone
data.redisSet.typeIdDesc	String	Description of instance type
data.redisSet.autoRenewFlag	Int	Whether the auto renewal indicator is set for the instance. 1: Yes; 0: No
data.redisSet.deadlineTime	String	Expiration time of instance

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=DescribeRedis
&<common request parameters>
&limit=10
&offset=0
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "totalCount": 1,
  "data": {
    "redisSet": [
      {
        "redisName": "att_test",
        "redisId": "crs-ooakfyj3",
        "appid": "1251966477",
        "projectId": "0",
        "regionId": "1",
        "zoneId": "100002",
        "vpcId": 4864,
        "unVpcId": "vpc-j5yvkvul",
        "subnetId": 14158,
        "unSubnetId": "subnet-py2q60ty",
        "status": "2",
        "statusDesc": "Running",
        "wanIp": "10.66.170.224",
        "port": "6379",
        "createTime": "2016-05-04 16:59:53",
        "size": "2048",
        "sizeUsed": "0",
        "typeId": "1",
        "typeIdDesc": "Cluster",
        "autoRenewFlag": 1,
        "deadlineTime": "2016-08-14 16:59:53"
      }
    ]
  }
}
```


Set CRS Auto-Renewal

Last updated : 2017-12-06 16:20:23

1. API Description

This API (SetRedisAutoRenew) is used to set auto renewal.

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

2. Input Parameters

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

The Action field for this API is SetRedisAutoRenew.

Parameter Name	Required	Type	Description
redisIds.n	Yes	String	An array of instance IDs, with the array subscript starting with 0
isAutoRenew	Yes	UInt	Set auto renewal flag: 0 - Do not set auto renewal; a notification will be given upon expiration of instance; 1 - Set auto renewal; instance will be automatically renewed upon expiration; 2 - Neither renewal nor notification will be made upon the expiration of instance

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message description. A null value indicates a success

Parameter Name	Type	Description
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
11055	InstanceDeleted	The instance has been deleted upon expiration
11061	InstanceIsolated	The instance has been isolated upon expiration
11060	IsAutoRenewError	Error with auto renewal flag (0 - Do not set auto renewal; a notification will be given upon expiration of instance; 1 - Set auto renewal; instance will be automatically renewed upon expiration; 2 - Neither renewal nor notification will be made upon the expiration of instance)

5. Example

Input

```
https://redis.api.qcloud.com/v2/index.php?Action=SetRedisAutoRenew
&<Common Request Parameters>
&redisIds.0=crs-ifmymj41
&isAutoRenew=1
```

Output

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


Change Instance Name

Last updated : 2017-12-06 16:21:22

1. API Description

This API (ModifyRedisName) is used to modify the name of an instance.

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

Rule on instance name: It should have a length of 1-36 characters comprised of letters, numbers, "_" or "-".

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	ID of instance to work with. This can be obtained from redisId in the returned values of API DescribeRedis .
redisName	Yes	String	Instance name. It should have a length of 1-36 characters comprised of letters, numbers, "_" or "-"

3. Output Parameters

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

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
11055	InstanceDeleted	The instance has been deleted upon expiration
11061	InstanceIsolated	The instance has been isolated upon expiration
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"
11211	InstanceNameExceedMaxLimit	Length of instance name exceeds the limit
11212	InstanceNameRuleError	Instance name does not conform to the rule: A length of 1-36 characters comprised of letters, numbers, "_", "-"

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=ModifyRedisName
&<Common Request Parameters>
&redisId=crs-izbob1wh
&redisName=test_API
```

The returned results are as below:

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

Change CRS Instance Password

Last updated : 2018-04-26 16:11:18

1. API Description

This API (ModfiyRedisPassword) is used to modify the password for a CRS instance.

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

Rule on password: It should be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers, special characters (!, @, #, %, ^, ()).

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	Instance ID
oldPassword	Yes	String	Old password
password	Yes	String	New password. Rule on password: It should be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers, special characters (!, @, #, %, ^, ()).

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message
codeDesc	String	Description of error code at business side. For a successful operation,

		"Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Array	Returned array

Array data is composed as follows:

Parameter Name	Type	Description
data.requestId	UInt	Task ID. You can use the API DescribeTaskInfo to query the task execution status

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
10707	InstanceLockedError	The operation is impossible because the instance is locked
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"
10501	PasswordEmpty	Password is left empty
10502	OldPasswordError	Wrong old password is entered for resetting password
11058	PasswordRuleError	Incorrect password rule. The password must be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers and special characters (!, @, #, %, ^, *, ())

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=ModfiyRedisPassword
```

```
&<Common Request Parameters>
&redisId=crs-ifmymj41
&oldPassword=49A2d!e@f12e
&password=12D3E@!r5ed
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "requestId": 11966
  }
}
```

Reset CRS Instance Password

Last updated : 2017-12-06 16:37:29

1. API Description

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

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

Rule on password: It should be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers, special characters (!, @, #, %, ^, ()).

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	ID of instance to work with. This can be obtained from redisId in the returned values of API DescribeRedis .
password	Yes	String	New password for the instance. Rule for password: It should be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers, special characters (!, @, #, %, ^, ()).

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message description. A null value indicates a success

Parameter Name	Type	Description
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Task ID

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

Parameter Name	Type	Description
data.requestId	Task ID	Task ID. You can use the API DescribeTaskInfo to query the task execution status

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
10707	InstanceLockedError	The operation is impossible because the instance is locked
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"
11058	PasswordRuleError	Incorrect password rule. The password must be a combination of 8-16 characters comprised of at least two of the following types: letters, numbers and special characters (!, @, #, %, ^, *, ())

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=ResetRedisPassword
&<Common Request Parameters>
&redisId=crs-izbob1wh
&password=12D3E@!r5ed
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "requestId": 375073
  }
}
```


Clear CRS Instance

Last updated : 2017-12-06 16:39:07

1. API Description

This API (ClearRedis) is used to clear a CRS instance.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	Instance ID
password	Yes	String	Instance password

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Array	Returned array

Array data is composed as follows:

Parameter Name	Type	Description
data.requestId	Int	Task ID. You can use the API DescribeTaskInfo to query the task execution result

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
10707	InstanceLockedError	The operation is impossible because the instance is locked
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"
10501	PasswordEmpty	Password is left empty
10712	PasswordError	Wrong password

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=ClearRedis
&<Common Request Parameters>
&redisId=crs-ifmymj41
&password=49A2d!e@f12e
```

The returned results are as below:

```
{
  "code": 0,
  "message": ""
```

```
"codeDesc": "Success",  
"data": {  
  "requestId": 11965  
}
```

Change CRS Instance Project

Last updated : 2017-12-06 16:39:26

1. API Description

This API (ModifyRedisProject) is used to modify the project to which a CRS instance belongs.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisIds.n	Yes	String	An array of instance IDs, with the array subscript starting with 0. You can use the API DescribeRedis to query the instance IDs.
projectId	Yes	UInt	Project ID. This value is subject to the projectId returned via User Account > User Account-related API > Query Project List

3. Output Parameters

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

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=ModifyRedisProject
&<Common Request Parameters>
&redisIds.0=crs-ifmymj41
&projectId=1004306
```

The returned results are as below:

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

Manual Backup of CRS Instance

Last updated : 2017-07-24 11:36:29

1. API Description

This API (ManualBackupInstance) is used to back up a CRS instance manually.

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

- Please do not call this API frequently. The number of calls is limited to 24 each day, otherwise the operation will fail.

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	ID of instance to work with. This can be obtained from redisId in the returned values of API DescribeRedis .
remark	No	String	Remarks of backup

3. Output Parameters

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

Parameter Name	Type	Description
data	Object	Task ID

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

Parameter Name	Type	Description
data.requestId	Task ID	Task ID. You can use the API DescribeTaskInfo to query the task execution status

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
10707	InstanceLockedError	The operation is impossible because the instance is locked
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=ManualBackupInstance
&<Common Request Parameters>
&redisId=crs-izbob1wh
&remark=test_api
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success"
  "data": {
    "requestId": 375062
  }
}
```


Query Backup Download URL

Last updated : 2017-07-24 11:36:45

1. API Description

This API (GetBackupDownloadUrl) is used to query the download URL of CRS instance backup.

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

1. Private network and local download URLs are valid for 12 hours, and need to be re-obtained upon expiration;
2. Quotation marks must be used around URL when wget is used for downloading;

2. Input Parameters

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

The Action field for this API is GetBackupDownloadUrl.

Parameter Name	Required	Type	Description
redisId	Yes	String	ID of instance to work with. This can be obtained from redisId in the returned values of API DescribeRedis .
backupId	Yes	String	Backup ID, which can be obtained from backupId in the returned values of API GetRedisBackupList .

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message description. A null value indicates a success

Parameter Name	Type	Description
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Download URL of backup

Parameter data represents the download URL of backup, and is composed as follows:

Parameter Name	Type	Description
data.intranet	URL in private network	The download URL in private network, which can only be obtained on CVM. It is valid for 12 hours, and needs to be re-obtained upon expiration
data.extranet	URL in public network	The download URL in public network, which is valid for 12 hours and needs to be re-obtained upon expiration

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
10711	BackupStatusAbnormal	The operation is impossible due to an abnormal backup status
11213	BackupNotExists	No instance backup can be found for the backupId

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=GetBackupDownloadUrl
&<Common request parameters>
&redisId=crs-c7xq4kqu
&backupId=fb8d2cd6-f6ee-11e6-ac36-525400394272
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "intranet": "http://10.66.183.31:5500/download/dump.rdb?NuRTyoDugir/5bQ3o46IHIVXtwJKTEtotpngKa5R4A4AytZn+XjX7ywuP5QTV+ayfvQR3BIJRA12ECRSSGOzIM7qsLQ6TkjFVSkuoLqNJ0jCdm721qkJpQ==",
    "extranet": "http://203.195.128.115:9097/download/dump.rdb?NuRTyoDugir/5bQ3o46IHIVXtwJKTEtotpngKa5R4A4AytZn+XjX7ywuP5QTV+ayfvQR3BIJRA12ECRSSGOzIM7qsLQ6TkjFVSkuoLqNJ0jCdm721qkJpQ=="
  }
}
```

Query CRS Instance Backup List

Last updated : 2017-07-24 11:37:01

1. API Description

This API (GetRedisBackupList) is used to query the backup list of a CRS instance.

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

- Currently, backups can only be retained for 7 days, so you can just query the backups for the last 7 days, including the manual backups initiated by users and the backups initiated by the system in the early morning.

2. Input Parameters

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

The Action field for this API is GetRedisBackupList.

Parameter Name	Required	Type	Description
limit	Yes	Int	Length of a page.
offset	Yes	Int	Current page number. Default is 0. For query APIs, a maximum number of returned records is generally set for a single query by default. To traverse all the resources, you need to use "limit" and "offset" for a paged query; For example, to query the 40 records between 110 and 149, you can set offset = 110 and limit = 40.
redisId	Yes	String	ID of instance to work with. This can be obtained from redisId in the returned values of API DescribeRedis .
beginTime	No	String	Start time, such as: 2017-02-08 16:46:34. Query the list of instance backups initiated within the time period of [beginTime, endTime].
endTime	No	String	End time, such as: 2017-02-08 19:09:26. Query the list of instance backups initiated within the time period of [beginTime, endTime].

3. Output Parameters

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

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

Parameter Name	Type	Description
data.redisBackupSet	Array	Array of instance backups

Parameter redisBackupSet indicates the array of instance backups, and is composed as follows:

Parameter Name	Type	Description
startTime	String	The time when the backup starts
backupId	String	Backup ID
backupType	String	Backup type. manualBackupInstance: Manual backup initiated by the user; systemBackupInstance: Backup initiated by the system in the early morning
status	Int	Backup status. 1: "Backup is locked by another process"; 2: "Backup is normal without being locked by any process"; -1: "Backup expired"; 3: "Backup is being exported"; 4: "Backup has been exported successfully"

Parameter Name	Type	Description
remark	String	Remarks of backup
locked	Int	Whether the backup is locked. 0: Not Locked; 1: Locked

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=GetRedisBackupList
&<Common request parameters>
&limit=10
&offset=0
&redisId=crs-izbob1wh
&beginTime=2017-02-08 16:46:34
&endTime=2017-02-08 19:09:26
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "totalCount": 2,
  "data": {
    "redisBackupSet": [
      {
        "startTime": "2017-02-08 16:46:34",
        "backupId": "19266626-eddb-11e6-890a-525400394272",
        "backupType": "manualBackupInstance",
        "status": 2,

```

```
"remark": "testAPI",
"locked": 0
},
{
  "startTime": "2017-02-08 19:09:26",
  "backupId": "0f87ffc6-edef-11e6-b88e-525400394272",
  "backupType": "systemBackupInstance",
  "status": 2,
  "remark": "",
  "locked": 0
}
]
}
}
```

Restore CRS Instance

Last updated : 2017-07-24 11:37:14

1. API Description

This API (RestoreInstance) is used to restore a CRS instance.

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

- The target instance can only be restored to its own backup, instead of that of another instance.

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	ID of instance to work with. This can be obtained from redisId in the returned values of API DescribeRedis .
password	Yes	String	Password for the instance. It needs to be verified when the instance is restored.
backupId	Yes	String	Backup ID, which can be obtained from backupId in the returned values of API GetRedisBackupList .

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message description. A null value indicates a success

Parameter Name	Type	Description
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Task ID

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

Parameter Name	Type	Description
data.requestId	Task ID	Task ID. You can use the API DescribeTaskInfo to query the task execution status

4. Error Codes

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

Error Code	Error Message	Error Description	
11201	InvalidParameter	Incorrect business parameter	
10701	InstanceNotExists	No instance can be found for the serialId	
10707	InstanceLockedError	The operation is impossible because the instance is locked	
10702	InstanceStatusAbnormal	The operation is impossible due to an abnormal instance status. For example, the instance has a status of "in process" or "isolated" or "deleted"	
10711	BackupStatusAbnormal	The operation is impossible due to an abnormal backup status	The backup may be expired or deleted
10710	BackupLockedError	The operation is impossible because the instance is locked by another task	

Error Code	Error Message	Error Description
10712	PasswordError	Incorrect instance password
11213	BackupNotExists	No instance backup can be found for the backupId

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=RestoreInstance
&<common request parameters>
&redisId=crs-izbob1wh
&password=12D3E@!r5ed
&backupId=e824aecc-ef5e-11e6-a2c7-525400082493
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "requestId": 375074
  }
}
```

Query Task List of CRS Instance

Last updated : 2017-12-06 18:04:32

1. API Description

This API (GetRedisTaskList) is used to query the task list of a CRS instance.

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

2. Input Parameters

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

The Action field for this API is GetRedisTaskList.

Parameter Name	Required	Type	Description
limit	Yes	Int	Length of a page
offset	Yes	Int	Current page number. Default is 0. For query APIs, a maximum number of returned records is generally set for a single query by default. To traverse all the resources, you need to use "limit" and "offset" for a paged query; For example, to query the 40 records between 110 and 149, you can set offset = 110 and limit = 40.
redisId	No	String	Instance ID, which can be obtained from redisId in the returned values of API DescribeRedis . Filtering tasks by instance ID is supported.
redisId	No	String	Instance name, which can be obtained from redisName in the returned values of API DescribeRedis . Filtering tasks by instance name is supported.
beginTime	No	String	Start time, such as: 2017-02-08 16:46:34. Query the list of tasks submitted within the time period of [beginTime, endTime].
endTime	No	String	End time, such as: 2017-02-08 19:09:26. Query the list of tasks submitted within the time period of [beginTime, endTime].

Parameter Name	Required	Type	Description
taskStatus	No	Array	Status (statuses) of one or more tasks (n represents the array subscript starting with 0). Filtering tasks by task status is supported. Task statuses are defined as follows: 0: To be executed; 1: Executing; 2: Succeeded; 3: Failed; -1: Execution Error
taskType	No	Array	Type(s) of one or more tasks (n represents the array subscript starting with 0). Filtering tasks by task type is supported. Task types are defined as follows: task_importRdb: Import Rdb; task_exportBackup: Export backup; task_restoreBackup: Restore an instance; task_restoreStream: Roll back an instance (cluster instances can be rolled back to any time point within the last three days, but the data for the last 10 minutes cannot be rolled back); task_backupInstance: Back up an instance; task_cleanInstance: Clear an instance; task_resizeInstance: Upgrade an instance

3. Output Parameters

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

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

Parameter Name	Type	Description
data.redisTaskSet	Array	Array of task details

Parameter redisTaskSet indicates the array of task details, and is composed as follows:

Parameter Name	Type	Description
startTime	String	Submission time of the task, such as: 2017-02-10 16:56:18
taskName	String	Task name: newInstance: Create an instance; resizeInstance: Upgrade an instance; closeInstance: Isolate an instance; cleanInstance: Clear an instance; startInstance: Dis-isolate an instance; deleteInstance: Delete an instance; setPassword: Set password for an instance; importRdb: Import Rdb; exportBackup: Export backup; restoreBackup: Restore an instance; restoreStream: Roll back an instance (cluster instances can be rolled back to any time point within the last three days, but the data for the last 10 minutes cannot be rolled back); backupInstance: Back up an instance
redisName	String	Instance name
redisId	String	Instance ID
projectId	Int	ID of project to which the instance belongs
status	Int	Task status. 0: To be executed; 1: Executing; 2: Succeeded; 3: Failed; -1: Execution Error
progress	Int	Task execution progress. 0: Uncompleted; 1: Completed

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=GetRedisTaskList
&<common request parameters>
&limit=10
&offset=0
&beginTime=2016-12-28 00:03:52
&endTime=2017-02-11 00:03:52
&redisId=crs-izbob1wh
&redisName=for API test&taskStatus.0=2
&taskType.0=task_restoreBackup
&taskType.1=task_backupInstance
&taskType.2=task_cleanInstance
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "totalCount": 9,
  "data": {
    "redisTaskSet": [
      {
        "startTime": "2017-02-10 16:56:18",
        "taskName": "restoreBackup",
        "redisName": "for API test",
        "redisId": "crs-izbob1wh",
        "projectId": 0,
        "status": 2,
        "progress": 1
      },
      {
        "startTime": "2017-02-10 15:02:36",
        "taskName": "backupInstance",
        "redisName": "for API test",
        "redisId": "crs-izbob1wh",
```

```
"projectId": 0,
"status": 2,
"progress": 1
},
{
  "startTime": "2017-02-10 14:59:29",
  "taskName": "backupInstance",
  "redisName": "for API test",
  "redisId": "crs-izbob1wh",
  "projectId": 0,
  "status": 2,
  "progress": 1
},
{
  "startTime": "2017-02-09 19:00:24",
  "taskName": "backupInstance",
  "redisName": "for API test",
  "redisId": "crs-izbob1wh",
  "projectId": 0,
  "status": 2,
  "progress": 1
},
{
  "startTime": "2017-02-08 19:09:26",
  "taskName": "backupInstance",
  "redisName": "for API test",
  "redisId": "crs-izbob1wh",
  "projectId": 0,
  "status": 2,
  "progress": 1
},
{
  "startTime": "2017-02-08 17:21:32",
  "taskName": "restoreBackup",
  "redisName": "for API test",
  "redisId": "crs-izbob1wh",
  "projectId": 0,
  "status": 2,
  "progress": 1
},
{
  "startTime": "2017-02-08 16:46:34",
  "taskName": "backupInstance",
  "redisName": "for API test",
  "redisId": "crs-izbob1wh",
```

```
"projectId": 0,
"status": 2,
"progress": 1
},
{
  "startTime": "2017-02-08 15:38:16",
  "taskName": "cleanInstance",
  "redisName": "for API test",
  "redisId": "crs-izbob1wh",
  "projectId": 0,
  "status": 2,
  "progress": 1
},
{
  "startTime": "2017-02-08 15:35:25",
  "taskName": "backupInstance",
  "redisName": "for API test",
  "redisId": "crs-izbob1wh",
  "projectId": 0,
  "status": 2,
  "progress": 1
}
]
}
}
```


Export Backup of CRS Instance

Last updated : 2017-12-06 18:04:10

1. API Description

This API (ExportRedisBackup) is used to export the CRS instance backup.

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

- Export the backup file with a rdb format;
- Only the backup of a cluster instance needs to be exported;
- Only after the backup is exported can it be downloaded by calling the API [GetBackupDownloadUrl](#).
- Only the backup with status 2 can be exported. You can use the API [GetRedisBackupList](#) to acquire the backup status.

2. Input Parameters

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

Parameter Name	Required	Type	Description
redisId	Yes	String	ID of instance to work with. This can be obtained from redisId in the returned values of API DescribeRedis .
backupId	Yes	String	Backup ID, which can be obtained from backupId in the returned values of API GetRedisBackupList .

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.

Parameter Name	Type	Description
message	String	Error message description. A null value indicates a success
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Object	Task ID

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

Parameter Name	Type	Description
data.requestId	Task ID	Task ID. You can use the API DescribeTaskInfo to query the task execution status

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter
10701	InstanceNotExists	No instance can be found for the serialId
11213	BackupNotExists	No instance backup can be found for the backupId
11214	OnlyClusterInstanceCanExportBackup	Only the backup of a cluster instance is allowed to be exported
10711	BackupStatusInvalid	Invalid backup status (for a cluster instance, only the backup with status 2 can be exported)

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=ExportRedisBackup
&<Common Request Parameters>
&redisId=crs-j30wibe7
&backupId=3a07b27e-f744-11e6-babc-525400082493
```

The returned results are as below:

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "data": {
    "requestId": 400151
  }
}
```

Query CRS Task Result

Last updated : 2017-12-06 18:03:12

1. API Description

This API (DescribeTaskInfo) is used to query the results of a task.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
requestId	Yes	UInt	Task ID

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code; 0: Succeeded; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Error message
codeDesc	String	Description of error code at business side. For a successful operation, "Success" will be returned. In case of an error, a message describing the reason for the error will be returned.
data	Array	Returned array of data

Array data is composed as follows:

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

data.status	Int	Task status. 0: To be executed; 1: Executing, 2: Succeeded; 3: Failed; -1: Execution Error
-------------	-----	--

4. Error Codes

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

Error Code	Error Message	Error Description
11201	InvalidParameter	Incorrect business parameter

5. Example

```
https://redis.api.qcloud.com/v2/index.php?Action=DescribeTaskInfo
&<common request parameters>
&requestId=11963
```

The returned results are as below:

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