

Alibaba Cloud ApsaraDB for Redis

API Reference

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Document conventions

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

Style	Description	Example
{} or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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1 RAM authorization

Resource Access Management (RAM) allows you to grant access of resources under an account to RAM users. Skip this section if you do not need to use RAM.

Resources available for authorization

Only one type of ApsaraDB for Redis resources can be authorized in RAM: Instance.

The following table shows how to describe resources to be authorized in RAM.

Resource type	Resource description in authorization policy
Instance	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid acs:kvstore:\$regionid:\$accountid:instance/ acs:kvstore::: instance/

- `$regionid` **describes a region. Replace it with a region ID or an asterisk (*).**
- `$accountid` **describes an account. Replace it with an account ID or an asterisk (*).**
- `$instanceid` **describes an instance. Replace it with an instance ID or an asterisk (*).**

Authorization rules

When RAM users request access to Redis resources, ApsaraDB for Redis checks for permissions from RAM to make sure the access is allowed by the resource owner. See the following authentication rules for each supported Redis API.

Table 1-1: RAM authorization rules for Redis APIs

Action	Authorization rule
CreateDBInstance	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
DeleteInstance	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
ModifyInstanceSpec	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid

Action	Authorization rule
RenewInstance	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
RenewMultiInstance	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
ModifyInstanceAttribute	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
FlushInstance	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
DescribeInstances	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
DescribeInstanceAttribute	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
ModifyInstanceMaintainTime	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
ModifySecurityIps	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
SwitchNetwork	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
ModifyInstanceNetExpireTime	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
CreateBackup	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
ModifyBackupPolicy	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
DescribeBackupPolicy	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
DescribeBackups	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
RestoreInstance	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
DescribeHistoryMonitorValues	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid

Action	Authorization rule
DescribeInstanceConfig	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid
ModifyInstanceConfig	acs:kvstore:\$regionid:\$accountid:instance/\$instanceid

2 Request Structure

Endpoint

The service access address of ApsaraDB for Redis APIs is `r-kvstore.aliyuncs.com`.



Note:

example.com is the project customized access domain address, connect to the Administrator for the domain address.

Communication protocol

Request communication through HTTP or HTTPS is supported. We recommend that requests be sent through HTTPS for enhanced security.

Request method

The system supports sending of HTTP GET requests. In this mode, the request parameters must be included in the request URL.

Request parameters

You must specify the operation to be executed, namely, the Action parameter (for example, CreateInstance), for each request, and the public request parameters required for each operation and specific request parameters of the specified operation.

Character encoding

Requests and responses are encoded using the UTF-8 character set.

3 Common Parameters

Public request parameters are request parameter that each interface uses.

Public parameters

Table 3-1: Public request parameters

Name	Type	Required	Description
Format	String	Yes	Type of the returned value. Values: JSON and XML. Default value: XML.
Version	String	Yes	API version number: Format: YYYY-MM-DD (date). The current version number is 2016-11-01.
AccessKeyId	String	Yes.	Key ID that Alibaba Cloud issues to a user for service access.
Signature	String	Yes	Signature result string. For more information about the signature calculation method, see Signature method .
SignatureMethod	String	Yes	Signature method. Currently, HMAC-SHA1 is supported.
Timestamp	String	Yes	Timestamp of a request. The date format follows the ISO8601 standard and uses UTC time. Format: YYYY-MM-DDThh:mm:ssZ, for example, 2013-08-15T12:00:00Z (20:00:00, August 15, 2013, Beijing time).
SignatureVersion	String	Yes	The version of the signature algorithm. The current version is 1.0.
SignatureNonce	String	Yes	Unique random number, used to prevent replay attacks. The user must use different random numbers for different requests.

Example

```
https:// r-kvstore.aliyuncs.com/
Format=json
&Version=2015-01-01
&Signature=Pc5WB8gokVn0xfeu%2FZV%2BiNM1dgI%3D
&SignatureMethod=HMAC-SHA1
```

```
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&Timestamp=2016-01-01T12:00:00Z
```

Public return parameters

Each time the user sends a call request to an interface, the system returns a unique identification code (RequestId) to the user, whether the request is successful or not.

Example

```
<? xml version="1.0" encoding="utf-8"? >
  <!--Result Root Node-->
  <Interface Name+Response>
    <!--Return Request Tag-->
    <RequestId>4C4fdsf38-3910-447D-87AD-AC078932216
  </RequestId>
  <!--Return Result Data-->
  </Interface Name+Response>
```


4 Returns results

After APIs are called, data is returned in the unified format. A returned HTTP status code of `2xx` indicates that the call is successful. A returned HTTP status code of `4xx` or `5xx` indicates that the call fails. For successful calls, the primary formats of returned data are XML and JSON. When a request is sent, an external system can input parameters to specify the format of returned data. XML is the default format.

**Note:**

In this document, examples of results returned are formatted in a way that is easier for you to read. The actual results returned are not formatted with line breaks, indentation, or other layouts.

Successful results

XML return results include a message stating if the request is successful and the specific service data. An example is as follows:

```
<? xml version="1.0" encoding="utf-8"? >
<!--Result root node -->
<API name+Response>

<RequestId>4C4fdsf38-3910-447D-87AD-AC078932216</RequestId>
<!-- Return result data-->
</API name+Response>
```

JSON example:

```
"RequestId": "4C4fdsf38-3910-447D-87AD-AC078932216",
/* Returns result data */
```

Incorrect results

If there is an interface call error, no result data is returned. The caller can locate the cause of the mistake according to the error code in the attached list. If an error is reported in an API call, no result data is returned. The caller can refer to the error code table in the appendix to locate the error cause. When an error occurs in a call, the HTTP request returns an HTTP status code of `4xx` or `5xx`. The returned message body contains the specific error code and error message. The message body also contains a globally unique RequestId and the HostId of the site you

accessed with this request. If unable to locate the error cause, the caller can contact Alibaba Cloud customer service and provide the `HostId` and `RequestId` to help solve the problem as quickly as possible.

```
<? xml version="1.0" encoding="UTF-8"? >
<Error>
<RequestId>8906582E-6722-409A-A6C4-0E7863B733A5</RequestId>
<HostId> r-kvstore.aliyuncs.com</HostId>
<Code>UnsupportedOperation</Code>
<Message>The specified action is not supported.</Message>
</Error>
```

JSON example:

```
"RequestId": "7463B73D-35CC-4D19-A010-6B8D65D242EF",
"HostId": " r-kvstore.aliyuncs.com",
"Code": "UnsupportedOperation",
"Message": "The specified action is not supported."
```

5 Signature method

ApsaraDB for Redis performs authentication on the sender of each access request . Therefore, no matter whether HTTP or HTTPS is used to submit a request, the request must contain the signature information. ApsaraDB for Redis performs symmetric encryption using the AccessKey ID and AccessKey Secret to verify the identity of request senders.

The AccessKey ID and AccessKey Secret are officially issued to visitors by Alibaba Cloud (visitors can apply for and manage them on the Alibaba Cloud official website). The Access Key ID indicates the identity of the visitor. The Access Key Secret is the secret key to encrypt the signature string and verify the signature string on the server. It must be kept strictly confidential and must be made only available to Alibaba Cloud and the authenticated visitor.

Sign an access request

Follow these steps to sign an access request:

1. Use request parameters to construct a canonicalized query string.
 - a. Sort all request parameters alphabetically by parameter names. (The request parameters include the “public request parameters” and the custom parameters for the given request APIs described in this document, but do not include the Signature parameter mentioned in the “public request parameters” .)



Notice:

When a request is submitted using the GET method, these parameters constitute the parameter section of the request URI (that is, the section in the URI following “?” and connected by “&”).

- b. Encode the name and value of each request parameter.

Perform URL encoding on the names and values using the UTF-8 character set. The URL encoding rules are as follows:

- Do not encode uppercase letters A-Z, lowercase letters a-z, numbers 0-9, and characters including the hyphen (-), underscore (_), period (.), and tilde (~).
- Encode other characters in the format of %XY, with XY representing the ASCII code in hexadecimal notation of the characters. For example, encode the English double quotes (“) as %22.
- Encode extended UTF-8 characters in the format of %XY%ZA....
- Encode the space () as %20 rather than the plus sign (+).



Notice:

Generally, libraries supporting the URL encoding (for example, `java.net.URLEncoder` in Java) are all encoded according to the rules for `application/x-www-form-urlencoded` of the MIME type. If this encoding method is used, replace the plus sign (+) in the encoded strings with %20, the asterisk (*) with %2A, and change %7E back to the tilde (~) to generate the encoding strings specified by the preceding rules.

- c. Connect the encoded parameter names and values with the equal sign (=).
 - d. Then, sort the parameter name and value pairs connected by equal signs in alphabetical order, and connect them with an ampersand (&) to produce the canonicalized query string.
2. Use the canonicalized query string obtained in the preceding step to construct the string for signature calculation according to the following rules:

```
StringToSign=
HTTPMethod + "&" +
percentEncode("/") + "&" +
```

```
percentEncode(CanonicalizedQueryString)
```

Where,

- `HTTPMethod` indicates the HTTP method used to submit a request, for example, **GET**.
- `percentEncode("/")` indicates the encoded value for the character “/” according to the URL encoding rules described in Step 1.ii, namely `%2F`.
- `percentEncode(CanonicalizedQueryString)` indicates the encoded string of the canonicalized query string constructed in Step 1, produced by following the URL encoding rules described in Step 1.ii.

3. Based on the RFC2104 definition, use the preceding string used for the signature to calculate the signature HMAC value.



Notice:

When the signature is calculated, the key is the Access Key Secret you hold adding the `&` character (ASCII:38), and the SHA1 hashing algorithm is used.

4. According to the Base64 encoding rules, encode the preceding HMAC value into a string to obtain the signature value.
5. Add the obtained signature value to the request parameters as the Signature parameter. The request signing process is complete.



Notice:

When the obtained signature value is submitted to the ApsaraDB for Redis server as the final request parameter value, the URL encoding must be performed for the value in compliance with the RFC3986 rules, which is the same as that for other parameter values.

Example

If `DescribeDBInstances` is used as an example, the request URL before signing is:

```
http://r-kvstore.aliyuncs.com/?Timestamp=2013-06-01T10:33:56Z&Format=XML&AccessKeyId=testid&Action=DescribeInstances&SignatureMethod=HMAC-SHA1&RegionId=region1&SignatureNonce=NwDaxvLU6tFE0DVb&Version=2015-01-01&SignatureVersion=1.0
```

The calculated string to be signed `StringToSign` is as follows:

```
GET%2F&AccessKeyId%3Dtestid&Action%3DDescribeInstances&Format%3DXML&RegionId%3Dregion1&SignatureMethod%3DHMAC-SHA1&SignatureNonce%
```

```
3DNwDaxvLU6tFE0DVb&SignatureVersion%3D1.0&Timestamp%3D2013-06-01T10%  
253A33%253A56Z&Version%3D2015-01-01
```

It is assumed that the Access Key ID is `testid`, the Access Key Secret is `testsecret`, and the Key used for HMAC calculation is `testsecret&`. The calculated signature value is `BIPOMlu8LXBeZtLQkJTw6iFvw1E=`.

The signed request URL is (the Signature parameter added):

```
http://r-kvstore.aliyuncs.com/?Timestamp=2013-06-01T10%3A33%3A56Z&  
Format=XML&AccessKeyId=testid&Action=DescribeInstances&SignatureMethod  
=HMAC-SHA1&RegionId=region1&SignatureNonce=NwDaxvLU6tFE0DVb&SignatureV  
ersion=1.0&Version=2015-01-01&Signature=BIPOMlu8LXBeZtLQkJTw6iFvw1E%3D
```

6 API overview

Instance lifecycle management APIs

API	Description
CreateInstance	Creates an instance.
DeleteInstance	Releases an instance.
ModifyInstanceSpec	Modifies an instance.
TransformToPrePaid	

Instance management APIs

API	Description
ModifyInstanceAttribute	Modifies attributes of an instance.
FlushInstance	Clears data of an instance.
DescribeInstances	Queries basic information about an instance.
DescribeInstanceAttribute	Queries details of an instance.
DescribeSecurityIps	Queries the IP whitelists of an instance.
ModifyInstanceMaintainTime	Modifies the maintenance time of an instance.
ModifySecurityIps	Modifies the whitelist of an instance.
DescribeRegions	Queries the region where an instance can be sold.
SwitchNetwork	Modifies the network type.
ModifyInstanceNetExpireTime	Modifies the retention period of a classic network connection address.

Backup recovery APIs

API	Description
CreateBackup	Create a backup.
ModifyBackupPolicy	Modifies a backup policy.
DescribeBackupPolicy	Queries a backup policy.
DescribeBackups	Displays a backup list.

API	Description
RestoreInstance	Rolls an instance back based on a backup set.

Monitoring management APIs

API	Description
DescribeMonitorItems	Views a metric list.
DescribeHistoryMonitorValues	Views the historical monitoring data.

Parameter management APIs

API	Description
DescribeInstanceConfig	Views the parameter configuration of an instance.
ModifyInstanceConfig	Modifies the parameter configuration of an instance.

7 Lifecycle management

7.1 CreateInstance


Description

This API is used to create an instance. For more information about the instance types, see Instance type table.

Request parameters

Table 7-1: Request parameters

Name	Type	Required	Description
<Public request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Operation API name. Value: CreateInstance.
InstanceName	String	No	Instance name . The name is a string of 2 to 128 characters and must start with a letter (uppercase or lowercase) or a Chinese character. Special characters , such as the at sign (@), slash (/), colon (:), equal sign (=), quotation mark (“), angle brackets (<>), braces ({}), and square brackets ([]) and space, are not supported.

Name	Type	Required	Description
Password	String	No	<p>Instance password. The password is a string of 8 to 30 characters and must contain uppercase letters, lowercase letters, and numbers.</p> <div style="background-color: #f0f0f0; padding: 5px;">  Notice: These special characters are not supported now: exclamation mark (!), angle brackets (<>), parentheses (()), square brackets ([]), braces ({}), comma (,), backquote (`), tilde (~), period (.), hyphen (-), underscore (_), at sign (@), number sign (#), dollar sign (\$), percent sign (%), caret (^), ampersand (&), and asterisk (*). </div>
InstanceClass	String	Yes	Type of the applied ApsaraDB for Redis instance. For more information, see Instance type table .

Name	Type	Required	Description
RegionId	String	Yes	Region of the applied ApsaraDB for Redis instance . You can use the DescribeRegions function to view available data centers.
ZoneId	String	No	Lower-level zone of the RegionId. You can use the DescribeRegions function to view available zones.
ChargeType	String	No	Billing method. Supported values : PrePaid and PostPaid. Default value: PostPaid.
Period	Long	No	Payment cycle . Required if ChargeType is set to PrePaid. Unit: month. Supported values: 1-9, 12, 24, and 36.
Token	String	No	This parameter is used to guarantee the idempotence of the request. This parameter value is generated by the client and must be unique. It cannot exceed 64 ASCII characters. For more information , see the section “ How to guarantee idempotence” .

Name	Type	Required	Description
NetworkType	String	No	Network type: <ul style="list-style-type: none"> · Classic · VPC The default value is CLASSIC.
VpcId	String	No	VPC ID
VSwitchId	String	No	VSwitch ID
PrivateIp	String	No	Private IP address
SrcDBInstanceId	String	No	If an instance created based on a backup set generated by another instance is valid , this parameter indicates the ID of the instance that generates the backup set.
BackupId	String	No	If an instance created based on a backup set generated by another instance is valid , this parameter indicates the ID of the generated backup set. Query the value of BackupId by calling DescribeBackups.
InstanceType	String	No	Instance type . Supported values: Redis and Memcache. Default value: Redis.

Name	Type	Required	Description
EngineVersion	String	No	Engine version. Supported values: 2.8 and 4.0. Default value: 2.8.

Response parameters

Table 7-2: Response parameters

Name	Parameter type	Description
<Public return parameters>	-	For more information, see Public return parameters .
InstanceId	String	Instance ID (globally unique).
InstanceName	String	Instance name



Note:

In consideration of the historical compatibility, some returned fields (such as Config and Region) of the function are not mentioned in this document. Alibaba Cloud will delete these fields gradually in the future. In this case, do not rely on the returned fields not involved in this document when calling the APIs.

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action=CreateInstance
&RegionId=cn-hangzhou
&Password=Qa123456
&InstanceClass= redis.master.small.default
```

Response example

```
"InstanceId": "736538d0a6894665",
"InstanceName": "736538d0a6894665"
```

7.2 ModifyInstanceSpec

You can call this operation to change the type of an ApsaraDB for Redis instance.

- For more information about instance types, see [Instance types](#).



- For more information about how to perform the corresponding operation in the console, see [Change the instance configuration](#).

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
InstanceId	String	Yes	r-j6cxxxxxxx xxxxxx	The ID of the instance for which you want to change the type.
Action	String	No	ModifyInst anceSpec	The operation that you want to perform. Set this parameter to <code>ModifyInstanceSpec</code> .
RegionId	String	No	cn-hangzhou	The ID of the region.
InstanceClass	String	No	redis.master. small.default	The target instance type. For more information about the values of the InstanceClass parameter for different instance types, see Instance types .
BusinessInfo	String	No	000000000	The ID of the event or the business information.
CouponNo	String	No	youhuiquan _promotion _option_id _for_blank	The coupon number. Default value: <code>youhuiquan_promotion_option_id_for_blank</code> .

Parameter	Type	Required	Example	Description
ForceUpgrade	Boolean	No	true	<p>Specifies whether to forcibly change the type. Valid values:</p> <ul style="list-style-type: none"> • false • true <p> Note: Default value: true.</p>
AutoPay	Boolean	No	true	<p>Specifies whether to enable auto renewal. Valid values:</p> <ul style="list-style-type: none"> • true • false <p>Default value: false.</p> <p> Note: If you set this parameter to false, <i>manually renew</i> the instance before the instance expires.</p>
AccessKeyId	String	No	LXXXXXXXXX XXXXXXW	The AccessKey ID that Alibaba Cloud provides for you to access services.
EffectiveTime	String	No	Immediately	<p>Specifies when the type is changed. Valid values:</p> <ul style="list-style-type: none"> • Immediately: changes the type immediately. • MaintainTime: changes the type in the maintenance window. <p>Default value: Immediately.</p>

Response parameters

Parameter	Type	Example	Description
OrderId	String	1111111111 11111	The ID of the order.
RequestId	String	0DA1D7EF-C80D -432C-8758- 7D225182626B	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=ModifyInstanceSpec
&InstanceId=r-j6cxxxxxxxxxxx3d4
&InstanceClass=redis.master.small.default
&<Common request parameters>
```

Sample success response

XML format

```
<ModifyInstanceSpecResponse>
  <OrderId>1111111111111111</OrderId>
  <RequestId>0DA1D7EF-C80D-432C-8758-7D225182626B</RequestId>
</ModifyInstanceSpecResponse>
```

JSON format

```
{
  "RequestId": "0DA1D7EF-C80D-432C-8758-7D225182626B",
  "OrderId": "1111111111111111"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	PaymentMethodNotFound	No payment method has been registered on the account.	The error message returned because no payment method has been registered for your account.

HTTP status code	Error code	Error message	Description
400	HasRenewChangeOrder	This instance has a renewChange order.	The error message returned because this instance has an order of renewal with configuration change.

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

7.3 TransformToPrePaid

You can call this operation to change the billing method of an ApsaraDB for Redis instance from Pay-As-You-Go to subscription.

For more information about how to perform the corresponding operation in the console, see [#unique_13](#).



Note:


Currently, you cannot change the billing method of an instance from subscription to Pay-As-You-Go.

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TransformToPrePaid	The operation that you want to perform. Set this parameter to TransformToPrePaid.
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance for which you want to change the billing method.

Parameter	Type	Required	Example	Description
Period	Long	Yes	12	The subscription period of the instance. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, 36.
AccessKeyId	String	No	LXXXXXXXXXX XXXXXXW	The AccessKey ID that Alibaba Cloud provides for you to access services.
AutoPay	Boolean	No	true	Specifies whether to enable auto renewal. Valid values: <ul style="list-style-type: none"> • true • false <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;">  Note: Default value: true. If you set this parameter to false, please <i>manually renew the instance</i> before the instance expires. </div>

Response parameters

Parameter	Type	Example	Description
EndTime	String	2019-01-18T16:00:00Z	The expiration time of the instance after the billing method was changed from Pay-As-You-Go to subscription.
OrderId	String	1111111111 11111	The ID of the order.
RequestId	String	426F1356-B6EF-4DAD-A1C3-DE53B9DAF586	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/  
? Action=TransformToPrePaid  
&InstanceId=r-bp1xxxxxxxxxxxxx  
&Period=12  
&<Common request parameters>
```

Sample success response

XML format

```
<TransformToPrePaidResponse>  
  <OrderId>1111111111111111</OrderId>  
  <RequestId>426F1356-B6EF-4DAD-A1C3-DE53B9DAF586</RequestId>  
  <EndTime>2019-01-18T16:00:00Z</EndTime>  
</TransformToPrePaidResponse>
```

JSON format

```
{  
  "RequestId": "426F1356-B6EF-4DAD-A1C3-DE53B9DAF586",  
  "OrderId": "1111111111111111",  
  "EndTime": "2019-01-18T16:00:00Z"  
}
```

Error codes

[View error codes.](#)

7.4 DeleteInstance

Description

Requirements for interface instance call & release are as follows:

- **The current status of instance: running.**
- **Not artificially locked.**



Notice:

A subscribed instance cannot be deleted. It is only released at expiration.

Request parameters

Table 7-3: Request parameters

Name	Type	Required or not	Description
<Public request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value: DeleteInstance.
InstanceId	String	Yes	Instance id (globally unique)

Response parameters

Table 7-4: Response parameters

Name	Type	Description
<Public return parameters>	-	For more information, see Public return parameters .

Request example

```
https://r-kvstore.aliyuncs.com
<Public request parameters>
&Action=DeleteInstance
&InstanceId=657e361a074646d5
```

Response example

```
"RequestId" : "C2225574-1D93-4F8A-B1D5-39FCBAA40660"
```

8 Manage instances

8.1 DescribeDBInstanceNetInfo

Description

Query the classic network connection address of the instance.

Request parameters

Table 8-1: Request parameters

Name	Type	Required	Description
<Common request parameter>	-	-	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value : DescribeDBInstanceNetInfo.
InstanceId	String	Yes	Instance ID (globally unique)

Response parameters

Table 8-2: Response parameters

Name	Type	Description
<Common return parameters>	-	For more information, see Public return parameters .
NetInfoItems	List	Composed of InstanceNetInfo parameters.
InstanceNetworkType	String	The network type of the instance. <ul style="list-style-type: none"> Private (VPC private network) Classic: Classic Network

Table 8-3: InstanceNetInfo parameters

Name	Type	Description
ConnectionString	String	DNS connection string
IPAddress	String	IP address of the instance
IPType	String	IP type of the instance: <ul style="list-style-type: none"> Private (VPC private network) Inner (Reserved classic network IP address)
Port	String	Port information
VPCId	String	VPC ID
VSwitchId	String	VSwitch ID
ExpiredTime	String	Remaining time before expiration of the reserved classic network IP address . In seconds.

Examples

Request example

```
https://r-kvstore.aliyuncs.com.com/
? <Common request parameters>
&Action= DescribeDBInstanceNetInfo
&InstanceId=657e361a074646d5
```

Response example

```
{
  "RequestId": "47651832-5882-4E35-BABF-97D01E06EB12",
  "InstanceNetworkType": "VPC",
  "NetInfoItems": {
    "InstanceNetInfo": [{
      "ConnectionString": "r-m5e6a11fb9fd3414.redis.rds.
aliyuncs.com",
      "Port": "6379",
      "DBInstanceNetType": "Inner",
      "VPCId": "",
      "IPAddress": "10.146.182.164",
      "ExpiredTime": "2581948"
    }, {
      "ConnectionString": "r-m5e6a11fb9fd3414983.redis.rds.
aliyuncs.com",
      "Port": "6379",
      "DBInstanceNetType": "Private",
      "VPCId": "vpc-m5edrscsrmda2m46h4c7",
```

```

    "IPAddress": "192.168.100.29",
  }
}
}

```

8.2 DescribeInstanceAttribute

You can call `DescribeInstanceAttribute` to query detailed information of an ApsaraDB for Redis instance.

Debugging


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

Request parameters

Parameter	Type	Required	Example	Description
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance of which you want to query detailed information.
Action	String	No	DescribeInstanceAttribute	The operation that you want to perform. Set this parameter to <code>DescribeInstanceAttribute</code> .
AccessKeyId	String	No	Lxxxxxxxxx xxxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
Instances			The information of the instance.

Parameter	Type	Example	Description
ArchitectureType	String	standard	<p>The architecture of the instance.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • cluster: the cluster edition. • standard: the standard edition. • SplitRW: the read/write splitting edition. • NULL: all editions. This is the default value.
AuditLogRetention	String	15	<p>The retention period of audit logs.</p> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;">  Note: Currently, the audit log feature is not supported by Alibaba Cloud International Site. </div>
AvailabilityValue	String	100%	The availability metrics in the current month.
Bandwidth	Long	10	<p>The bandwidth of the instance.</p> <p>Unit: MByte/s.</p>
Capacity	Long	1024	The storage capacity of the instance. Unit: MB.
ChargeType	String	PostPaid	<p>The billing method of the instance.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • PrePaid: subscription. • PostPaid: pay-as-you-go.

Parameter	Type	Example	Description
Config	String	<pre>{"EvictionPolicy": "volatile-lru", "hash-max-ziplist-entries": 512, "zset-max-ziplist-entries": 128, "zset-max-ziplist-value": 64, "set-max-intset-entries": 512, "hash-max-ziplist-value": 64}</pre>	The parameter configuration of the instance, in a JSON string. For more information, see Set parameters .
Connection Domain	String	<code>r-j6cxxxxxxx xxxxxx.redis.rds .aliyuncs.com</code>	The endpoint of the instance.
Connections	Long	10000	The maximum number of connections supported by the instance.
CreateTime	String	2019-03-06T10:42:03Z	The time when the instance was created. The time follows the ISO 8601 standard and it is displayed in UTC. The time is in the yyyy-MM-ddTHH:mm:ssZ format.
EndTime	String	2019-04-06T10:42:03Z	The time when the subscription instance expires. The time follows the ISO 8601 standard and it is displayed in UTC. The time is in the yyyy-MM-ddTHH:mm:ssZ format.
Engine	String	Redis	The engine type of the instance.

Parameter	Type	Example	Description
EngineVersion	String	4.0	The engine version of the instance. Valid values: <ul style="list-style-type: none"> • 2.8 • 4.0 • 5.0
HasRenewChangeOrder	String	false	Indicates whether there was an order of renewal with configuration change that had not taken effect. Valid values: <ul style="list-style-type: none"> • true • false
InstanceClass	String	redis.master.small.default	The instance type.
InstanceId	String	r-j6cxxxxxxxxxxxx	The ID of the instance.
InstanceName	String	apitest	The name of the instance.
InstanceStatus	String	Normal	The status of the instance.
InstanceType	String	Redis	The engine type of the instance.
IsRds	Boolean	true	Indicates whether the instance is managed by Relational Database Service (RDS). Valid values: <ul style="list-style-type: none"> • true • false
MaintainEndTime	String	22:00Z	The end time of the maintenance window. The time is in the HH:mmZ format, such as 02:00Z.

Parameter	Type	Example	Description
MaintainStartTime	String	18:00Z	The start time of the maintenance window. The time is in the <code>HH:mmZ</code> format, such as <code>02:00Z</code> .
NetworkType	String	CLASSIC	The network type of the instance. Valid values: <ul style="list-style-type: none"> CLASSIC VPC
NodeType	String	double	The node type of the instance. Valid values: <ul style="list-style-type: none"> double single
NodeType	String	double	The node type of the instance. Valid values: <ul style="list-style-type: none"> double single
PackageType	String	standard	The type of the package. Valid values: <ul style="list-style-type: none"> standard customized
Port	Long	6379	The service port of the instance.
PrivateIp	String	xxx.xxx.xxx.222	The internal IP address of the instance.
QPS	Long	100000	The theoretical maximum queries per second (QPS).
RegionId	String	cn-hongkong	The ID of the region.
ReplicaId	String	bls-awXXXXXXXXXX XXXXXX	The ID of the replica.

Parameter	Type	Example	Description
ReplicationMode	String	master-slave	<p>The architecture of the instance.</p> <ul style="list-style-type: none"> • master-slave: includes the master-replica edition and Standalone edition. • cluster: includes the read/write splitting edition and cluster edition.
SecurityIPList	String	127.0.0.1	The IP address whitelists.
Tags			The tags.
Key	String	tagkey	The tag key.
Value	String	tagvalue	The tag value.
VSwitchId	String	vsw-xxxxxxxxxx xxxxxxxxxx	The ID of the VSwitch.
VpcAuthMode	String	Open	<p>Indicates whether password authentication is enabled for access within the VPC. Valid values :</p> <ul style="list-style-type: none"> • Open: Password authentication is enabled. • Close: Password authentication is disabled.
VpcId	String	vpc-bp1cxxxxxx xxxxxxxxxx	The ID of the VPC.
ZoneId	String	cn-hongkong-b	The ID of the zone. You can call the DescribeRegions operation to query the latest region list.
RequestId	String	CA40C261-EB72-4EDA-AC57-958722162595	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=DescribeInstanceAttribute
&InstanceId=r-bp1xxxxxxxxxxxxx
&<Common request parameters>
```

Sample success response

XML format

```
<DescribeInstanceAttributeResponse>
  <RequestId>5553161D-11B1-43E1-9D95-523B2C82304F</RequestId>
  <Instances>
    <DBInstanceAttribute>
      <Config>{"maxmemory-policy":"volatile-lfu","EvictionPolicy":"
volatile-lru","hash-max-ziplist-entries":512,"zset-max-ziplist-entries
":128,"zset-max-ziplist-value":64,"set-max-intset-entries":512,"hash-
max-ziplist-value":64,"#no_loose_disabled-commands":"flushall,flushdb
","lazyfree-lazy-eviction":"yes"}</Config>
      <HasRenewChangeOrder>>false</HasRenewChangeOrder>
      <InstanceId>r-bp1xxxxxxxxxxxxx</InstanceId>
      <ArchitectureType>cluster</ArchitectureType>
      <ZoneId>cn-hangzhou-e</ZoneId>
      <PrivateIp>xxx.xxx.xxx.224</PrivateIp>
      <VSwitchId>vsw-bp1xxxxxxxxxxxxxxxxxx</VSwitchId>
      <VpcId>vpc-bp1xxxxxxxxxxxxxxxxxx</VpcId>
      <Engine>Redis</Engine>
      <NetworkType>VPC</NetworkType>
      <PackageType>standard</PackageType>
      <QPS>200000</QPS>
      <ReplicaId>grr-bp1xxxxxxxxxxxxx</ReplicaId>
      <IsRds>>true</IsRds>
      <MaintainStartTime>18:00Z</MaintainStartTime>
      <VpcAuthMode>Close</VpcAuthMode>
      <ConnectionDomain>cluster40.redis.rds.aliyuncs.com</
ConnectionDomain>
      <EngineVersion>4.0</EngineVersion>
      <InstanceName>cluster40</InstanceName>
      <Bandwidth>96</Bandwidth>
      <ChargeType>PostPaid</ChargeType>
      <AuditLogRetention>30</AuditLogRetention>
      <MaintainEndTime>22:00Z</MaintainEndTime>
      <ReplicationMode>cluster</ReplicationMode>
      <InstanceType>Redis</InstanceType>
      <Tags></Tags>
      <InstanceStatus>Normal</InstanceStatus>
      <Port>6379</Port>
      <InstanceClass>redis.logic.sharding.2g.2db.0rodb.4proxy.
default</InstanceClass>
      <AvailabilityValue>100.0%</AvailabilityValue>
      <RegionId>cn-hangzhou</RegionId>
      <NodeType>double</NodeType>
      <CreateTime>2018-11-07T16:49:00Z</CreateTime>
      <Capacity>4096</Capacity>
      <SecurityIPList>172.0.0.1</SecurityIPList>
      <Connections>20000</Connections>
    </DBInstanceAttribute>
```

```
</Instances>
</DescribeInstanceAttributeResponse>
```

JSON format

```
{
  "RequestId": "5553161D-11B1-43E1-9D95-523B2C82304F",
  "Instances": {
    "DBInstanceAttribute": [
      {
        "Config": "{\"maxmemory-policy\": \"volatile-lfu\", \"EvictionPolicy\": \"volatile-lru\", \"hash-max-ziplist-entries\": 512, \"zset-max-ziplist-entries\": 128, \"zset-max-ziplist-value\": 64, \"set-max-intset-entries\": 512, \"hash-max-ziplist-value\": 64, \"#no_loose_disabled_commands\": \"flushall, flushdb\", \"lazyfree-lazy-eviction\": \"yes\"}",
        "HasRenewChangeOrder": "false",
        "InstanceId": "r-bp1xxxxxxxxxxxxxxxx",
        "ZoneId": "cn-hangzhou-e",
        "ArchitectureType": "cluster",
        "PrivateIp": "xxx.xxx.xxx.224",
        "VSwitchId": "vsw-bp1xxxxxxxxxxxxxxxx",
        "Engine": "Redis",
        "VpcId": "vpc-bp1xxxxxxxxxxxxxxxx",
        "NetworkType": "VPC",
        "QPS": 200000,
        "PackageType": "standard",
        "ReplicaId": "grr-bp1xxxxxxxxxxxxxxxx",
        "IsRds": true,
        "MaintainStartTime": "18:00Z",
        "VpcAuthMode": "Close",
        "ConnectionDomain": "cluster40.redis.rds.aliyuncs.com",
        "EngineVersion": "4.0",
        "InstanceName": "cluster40",
        "Bandwidth": 96,
        "ChargeType": "PostPaid",
        "AuditLogRetention": "30",
        "MaintainEndTime": "22:00Z",
        "ReplicationMode": "cluster",
        "InstanceType": "Redis",
        "InstanceStatus": "Normal",
        "Tags": {
          "Tag": []
        },
        "Port": 6379,
        "InstanceClass": "redis.logic.sharding.2g.2db.0rodb.4proxy.default",
        "CreateTime": "2018-11-07T16:49:00Z",
        "NodeType": "double",
        "RegionId": "cn-hangzhou",
        "AvailabilityValue": "100.0%",
        "Capacity": 4096,
        "Connections": 20000,
        "SecurityIPList": "172.0.0.1"
      }
    ]
  }
}
```

Error codes

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

8.3 DescribeInstances

Description

This API is used to query one or multiple instances under an account.

Request parameters

Table 8-4: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	-	For more information, see Public parameters .
Action	String	Yes	The API name. Value: DescribeInstances.
InstanceIds	String	No	Instance ID (globally unique). This parameter is required when an instance ID is specified. To query multiple instance IDs, separate the IDs by comma (.). If the parameter value is left blank, all instances under the account are queried by default.
InstanceStatus	String	No	Filter instances to be returned by the instance status: <ul style="list-style-type: none"> • Normal • Creating • Changing • Inactive

Name	Type	Required	Description
ChargeType	String	No	Filter instances to be returned by the payment options: <ul style="list-style-type: none"> • PrePaid • PostPaid
RegionId	String	Yes	Call DescribeRegions to query the RegionId.
InstanceType	String	No	Filter instances by the engine type: <ul style="list-style-type: none"> • Memcache • Redis
PageNumber	Integer	No	Page number of the instance status list. Initial value: 1. Default value: 1.
PageSize	Integer	No	Number of lines per page in paging query. Maximum value: 50. Default value: 10.
NetworkType	String	No	Filter instances by network type: <ul style="list-style-type: none"> • CLASSIC • VPC

Response parameters

Table 8-5: Response parameters

Name	Type	Description
<Common response parameters>	-	For more information, see Public return parameters .
Instances	List	Array composed of Instances
TotalCount	Integer	Total number of instances

Name	Type	Description
PageNumber	Integer	Page number of the instance list
PageSize	Integer	Number of lines per page set during input

Instance parameter structure

Name	Type	Description
InstanceId	String	Instance ID (globally unique)
InstanceName	String	Instance name
Capacity	Long	Capacity of the applied ApsaraDB for Redis instance. Unit: MB.
InstanceClass	String	Instance type
Bandwidth	Long	Instance bandwidth limit. Unit: Mbit/s.
Connections	Long	Instance connection quantity limit. Unit: count
ConnectionDomain	String	Instance connection domain (only Intranet access supported).
Port	Int	Connection port
Username	String	Connection user name
RegionId	String	Region of the applied ApsaraDB for Redis instance
ZoneId	String	Lower-level zone ID of the RegionId

Name	Type	Description
InstanceStatus	String	Instance status: <ul style="list-style-type: none"> • Normal • Creating • Changing • Inactive • Transforming • BackupRecovering • MinorVersionUpgrading
ChargeType	String	Billing method. Supported values: PrePaid and PostPaid.
CreateTime	String	Instance creation time. The time format follows the ISO8601 notation, and the UTC time is used in the format of YYYY-MM-DDThh:mm:ssZ.
EndTime	String	Expiration time for a pre-paid instance. The time format follows the ISO8601 notation, and the UTC time is used in the format of YYYY-MM-DDThh:mm:ssZ.
NetworkType	String	Network type. Supported values: CLASSIC and VPC.
VpcId	String	VPC ID
VSwitchId	String	VSwitch ID
Privateipaddr	String	Private IP address

**Notice:**

In consideration of the historical compatibility, some returned fields (such as Config) of the function are not mentioned in this document. Alibaba Cloud will delete these fields gradually in the future. In this case, do not rely on the returned fields not involved in this document when calling the APIs.

Request example

```
https://r-kvstore.aliyuncs.com.com/
<Common request parameters>
&Action=DescribeInstances
&PageNumber=1
&PageSize=10
&InstanceId=de5d88e34d004211
```

Response example

```
{
  "Instances" : {
    "Instance" : [{
      "Bandwidth" : 128,
      "Capacity" : 512,
      "ConnectionDomain" : "de5d88e34d004211.m.cnhzalicm1
0pub001.r-kvstore.aliyuncs.com.com",
      "Connections" : 300,
      "ZoneId" : "cn-qingdao-b",
      "InstanceId" : "de5d88e34d004211",
      "Instancename": "wl123456 ",
      "InstanceStatus" : "Available",
      "InstanceClass" : "redis.master.mid.default",
      "Port" : 11211,
      "RegionId" : "cn-qingdao",
      "UserName" : "de5d88e34d004211"
      "NetworkType": "CLASSIC"
    "ChargeType": "PostPaid"
    }
  ]
  "PageNumber" : 1,
  "PageSize" : 10,
  "TotalCount" : 1,
  "RequestId" : "969D0A1D-C91A-4837-9F70-49785DF9BDCE"
```

8.4 FlushInstance

Description

This API is used to irrecoverably clear data stored in a instance.

Operations of this API are asynchronous. After you call this API, the result is immediately returned, and data of the instance is cleared in the back-end.

Request parameters

Table 8-6: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	-	See Public parameters .

Name	Type	Required	Description
Action	String	Yes	Required parameter. Value: FlushInstance.
InstanceId	String	Yes	Instance ID (globally unique)

Response parameters

Table 8-7: Response Parameters

Name	Type	Description
<Common return parameters>	-	See <i>Public return parameters</i> .

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action= FlushInstance
&InstanceId=657e361a074646d5
```

Response example

```
"RequestId" : "96893674-E50C-495D-AB0E-2F12C1E0FD45"
```

8.5 ModifyInstanceAttribute

Description


This API is used to modify the attributes of an instance, including the name or password.

Request parameters

Table 8-8: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	-	For more information, see <i>Public parameters</i> .

Name	Type	Required	Description
Action	String	Yes	The API name. Value: <code>ModifyInstanceAttribute</code> .
InstanceId	String	Yes	Instance id, globally unique.
InstanceName	String	No	Modified instance name. The name is a string of 2 to 128 characters and must start with a letter (uppercase or lowercase) or a Chinese character. Special characters, such as the at sign (@), slash (/), colon (:), equal sign (=), quotation mark (“), angle brackets (<>), braces ({}), and square brackets ([]) and space, are not supported.

Name	Type	Required	Description
NewPassword	String	No	<p>Instance password. The password is a string of 8 to 30 characters and must contain uppercase letters, lowercase letters, and numbers.</p> <div style="background-color: #f0f0f0; padding: 5px;">  Notice: The following special characters are not supported now: The following special characters are not supported now: Exclamation mark (!), angle brackets (<>), parentheses (()), square brackets ([]), braces {}, comma (,), backquote (`), tilde (~), period (.), hyphen (-), underscore (_), at sign (@), number sign (#), dollar sign (\$), percent sign (%), caret (^), ampersand (&), and asterisk (*). </div>

Response parameters

Table 8-9: Response parameters

Name	Type	Description
<Common response parameters>	-	For more information, see Public return parameters .

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action= ModifyInstanceAttribute
&InstanceId=657e361a074646d5
&NewPassword=Qa12345678
&InstanceName=TestInstance
```

Response example

```
"RequestId" : "E3B35BEA-9EB0-402C-88CF-C46CCCC1EE59"
```

8.6 ModifyInstanceMaintainTime

You can call this operation to modify the maintenance window of an ApsaraDB for Redis instance. Alibaba Cloud maintains the ApsaraDB for Redis instance in the specified maintenance window.


For more information about how to perform the corresponding operation in the console, see [Set a maintenance window](#).

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyInstanceMaintainTime	The operation that you want to perform. Set this parameter to ModifyInstanceMaintainTime.
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance for which you want to modify the maintenance window.

Parameter	Type	Required	Example	Description
MaintainStartTime	String	Yes	03:00Z	The start time of the maintenance window. The time must be in the HH:mmZ format.
MaintainEndTime	String	Yes	02:00Z	The end time of the maintenance window. The time must be in the HH:mmZ format. <div style="border: 1px solid gray; background-color: #f0f0f0; padding: 5px;">  Note: The interval between the start time and the end time must be one hour. For example, if the value of the MaintainStartTime parameter is 01:00Z, the value of the MaintainEndTime parameter must be 02:00Z. </div>
AccessKeyId	String	No	LXXXXXXXXXX XXXXXXW	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8D0C0AFC-E9CD-47A4-8395-5C31BF9B3E76	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/? Action=ModifyInstanceMaintainTime &InstanceId=r-bp1xxxxxxxxxxxxx
```



```
&MaintainStartTime=02:00Z
&MaintainEndTime=03:00Z
&<Common request parameters>
```

Sample success response

XML format

```
<ModifyInstanceMaintainTimeResponse>
  <RequestId>8D0C0AFC-E9CD-47A4-8395-5C31BF9B3E76</RequestId>
</ModifyInstanceMaintainTimeResponse>
```

JSON format

```
{
  "RequestId": "8D0C0AFC-E9CD-47A4-8395-5C31BF9B3E76"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidEndTime.Format	Specified end time is not valid.	The error message returned because the verification of the end time failed.

[View error codes.](#)

8.7 ModifyInstanceNetExpireTime

Description

If an instance has been switched from a classic network to a VPC and the classic network connection address is retained, this API can be called to prolong the retention period of the classic network connection address.

Request parameters

Table 8-10: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value : ModifyInstanceNetExpireTime.
InstanceId	String	Yes	Instance ID (globally unique)
ConnectionString	String	Yes	Domain name used to access the classic network
ClassicExpiredDays	String	Yes	Retention period. Supported values: 14, 30, 60, and 120.

Response parameters

Table 8-11: Response parameters

Name	Type	Description
<Common response parameters>	-	For more information, see Public return parameters .

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action= ModifyInstanceNetExpireTime
&ConectionString= fdafas32323ed.redis.rds.aliyuncs.com
&InstanceId=fdafas32323ed
& ClassicExpiredDays=120
```

Response example

```
"RequestId" : "AAAF99B1-69ED-4E80-8CD5-272C09E46ACF"
```

8.8 ModifyDBInstanceConnectionString

You can call this operation to modify an endpoint of an ApsaraDB for Redis instance.

For more information about how to perform the corresponding operation in the console, see [Modify connection addresses](#).

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
DBInstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance for which you want to modify an endpoint.
CurrentConnectionString	String	Yes	r-bp1xxxxxxx xxxxxx.redis. rds.aliyuncs. com	The current endpoint of the ApsaraDB for Redis instance.
NewConnectionString	String	Yes	standardredis	The prefix of the new endpoint. The new endpoint of the ApsaraDB for Redis instance is in the <code><Prefix>.redis.rds.aliyuncs.com</code> format. The prefix of the endpoint must start with a lowercase letter and can contain lowercase letters and digits. The prefix can be 8 to 64 characters in length.

Parameter	Type	Required	Example	Description
Action	String	No	ModifyDBInstanceConnectionString	The operation that you want to perform. Set this parameter to ModifyDBInstanceConnectionString.
IPType	String	No	Public	The network type of the new endpoint. Value values: <ul style="list-style-type: none"> Private: internal network. Public: public network.
Port	String	No	6379	The service port of the instance. If the IPType parameter is set to Public, you can specify a custom port by using this parameter. Valid values: 1024 to 65535.
AccessKeyId	String	No	LXXXXXXXXXX XXXXXXW	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1790D68A-465C-44E3-BC24-9732652961F9	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=ModifyDBInstanceConnectionString
&DBInstanceId=r-bp1xxxxxxxxxxxxx
&CurrentConnectionString=r-bp1xxxxxxxxxxxxx.redis.rds.aliyuncs.com
&NewConnectionString=standardredis
```

```
&<Common request parameters>
```

Sample success response

XML format

```
<ModifyDBInstanceConnectionStringResponse>
  <RequestId>1790D68A-465C-44E3-BC24-9732652961F9</RequestId>
</ModifyDBInstanceConnectionStringResponse>
```

JSON format

```
{
  "RequestId": "1790D68A-465C-44E3-BC24-9732652961F9"
}
```

Error codes

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

8.9 SwitchNetwork

You can call `SwitchNetwork` to switch the network type of an ApsaraDB for Redis instance. from classic network to VPC.



For more information about how to perform the corresponding operation in the console, see [#unique_26](#).

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SwitchNetwork	The operation that you want to perform. Set this parameter to <code>SwitchNetwork</code> .
InstanceId	String	Yes	r-j6cxxxxxxx xxxxxxx	The ID of the instance for which you want to switch the network type.

Parameter	Type	Required	Example	Description
AccessKeyId	String	No	LXXXXXXXXXX XXXXXX	The AccessKey ID that Alibaba Cloud provides for you to access services.
ClassicExpiredDays	String	No	30	<p>The retention period of the connection address of the classic network. Unit: days. Valid values: 14, 30, 60, and 120. This parameter must be specified if RetainClassic is set to True.</p> <div style="background-color: #f0f0f0; padding: 5px;">  Note: For more information about how to modify the retention period after the network type is switched to VPC, see #unique_27. </div>
RetainClassic	String	No	True	<p>Specifies whether to retain the connection address of the classic network.</p> <ul style="list-style-type: none"> • True • False <div style="background-color: #f0f0f0; padding: 5px;">  Note: Default value: False. </div>
TargetNetworkType	String	No	VPC	The network type to which you want to switch. Currently, you can only switch from classic network to VPC. Set this parameter to VPC.

Parameter	Type	Required	Example	Description
VSwitchId	String	No	vsw- sdrxxxxxxx xxxxxxxxxxx	The ID of the VSwitch in the VPC after you switch the network type of the instance to VPC. This parameter must be specified if the VpcId parameter is set.
VpcId	String	No	vpc- bp1xxxxxxx xxxxxxxxxxx	The ID of the VPC where the instance is located after you switch the network type of the instance to VPC.

Response parameters

Parameter	Type	Example	Description
RequestId	String	F0997EE8-F4C2- -4503-9168- 85177ED78C70	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com
? Action=SwitchNetwork
&InstanceId=r-j6cxxxxxxxxxxxxx
&TargetNetworkType=VPC
&VpcId=vpc-bp1xxxxxxxxxxxxxxx
&VSwitchId=vsw-sdrxxxxxxxxxxxxxxx
&RetainClassic=True
&ClassicExpiredDays=30
&<Common request parameters>
```

Sample success response**XML format**

```
<SwitchNetworkResponse>
  <requestId>F0997EE8-F4C2-4503-9168-85177ED78C70</requestId>
```

```
</SwitchNetworkResponse>
```

JSON format

```
{
  "requestId": "F0997EE8-F4C2-4503-9168-85177ED78C70"
}
```

Error codes

[View error codes.](#)

8.10 ModifyInstanceMajorVersion

You can call this operation to upgrade the major version of an ApsaraDB for Redis instance.


For more information about how to perform the corresponding operation in the console, see [Upgrade the major version.](#)

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance for which you want to upgrade the major version.
MajorVersion	String	Yes	4.0	The target major version. Currently, 4.0 is supported.
Action	String	No	ModifyInstanceMajorVersion	The operation that you want to perform. Set this parameter to ModifyInstanceMajorVersion.

Parameter	Type	Required	Example	Description
AccessKeyId	String	No	Lxxxxxxxxx xxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.
EffectTime	String	No	0	<p>The time when the major version is upgraded. Valid values:</p> <ul style="list-style-type: none"> 0: upgrades the major version immediately. 1: upgrades the major version in the maintenance window. <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;">  Note: Default value: 0. </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	AA587FB2-2593-4DFE-BE13-2494C2DF0CBF	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=ModifyInstanceMajorVersion
&InstanceId=r-bp1xxxxxxxxxxxxx
&MajorVersion=4.0
&EffectTime=0
&<Common request parameters>
```

Sample success response

XML format

```
<ModifyInstanceMajorVersionResponse>
  <RequestId>AA587FB2-2593-4DFE-BE13-2494C2DF0CBF</RequestId>
```

```
</ModifyInstanceMajorVersionResponse>
```

JSON format

```
{  
  "RequestId": "AA587FB2-2593-4DFE-BE13-2494C2DF0CBF"  
}
```

Error codes

[View error codes.](#)

9 Account management

9.1 DescribeAccounts

You can call this API to query all accounts or a specified account of an ApsaraDB for Redis instance.



Note:

The engine version of the ApsaraDB for Redis instance must be Redis 4.0 or above.


Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAccounts	The operation that you want to perform. Set this parameter to DescribeAccounts.
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance to which the account belongs.
AccessKeyId	String	No	Lxxxxxxxxx xxxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.
AccountName	String	No	demoaccount	The name of the account. The name must start with a lowercase letter and can contain lowercase letters, digits, and underscores (_). The name can be 1 to 16 characters in length.

Response parameters

Parameter	Type	Example	Description
Accounts			The accounts that were queried.
└ AccountDescription	String	this is a test account	The description of the account.
└ AccountName	String	demoaccount	The name of the account.
└ AccountStatus	String	Available	The status of the account. Valid values: <ul style="list-style-type: none"> • Unavailable • Available
└ AccountType	String	Normal	The type of the account. Valid values: <ul style="list-style-type: none"> • Normal • Super
└ DatabasePrivileges			The permissions of the account.
└ AccountPrivilege	String	RoleReadWrite	The permission of the account. Valid values: <ul style="list-style-type: none"> • RoleReadOnly • RoleReadWrite (default value) • RoleRepl <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;">  Note: In addition to reading data from and writing data to the ApsaraDB for Redis instance, an account with the RoleRepl permission can run the SYNC and PSYNC commands. </div>

Parameter	Type	Example	Description
InstanceId	String	r-bp1xxxxxxx xxxxxx	The ID of the instance.
RequestId	String	6C9E114C-217C -4118-83C0- B40702221161	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=DescribeAccounts
&InstanceId=r-bp1xxxxxxxxxxxxxx
&<Common request parameters>
```

Sample success response

XML format

```
<DescribeAccountsResponse>
  <Accounts>
    <Account>
      <DatabasePrivileges>
        <DatabasePrivilege>
          <AccountPrivilege>RoleReadWrite</AccountPrivilege>
        </DatabasePrivilege>
      </DatabasePrivileges>
      <AccountStatus>Available</AccountStatus>
      <InstanceId>r-bp1xxxxxxxxxxxxxx</InstanceId>
      <AccountName>r-bp1xxxxxxxxxxxxxx</AccountName>
      <PrivExceeded>0</PrivExceeded>
      <AccountType>Normal</AccountType>
    </Account>
  </Accounts>
  <RequestId>6C9E114C-217C-4118-83C0-B40702221161</RequestId>
</DescribeAccountsResponse>
```

JSON format

```
{
  "Accounts":{
    "Account":[
      {
        "AccountStatus":"Available",
        "DatabasePrivileges":{
          "DatabasePrivilege":[
            {
              "AccountPrivilege":"RoleReadWrite"
            }
          ]
        },
        "InstanceId":"r-bp1xxxxxxxxxxxxxx",
        "AccountName":"r-bp1xxxxxxxxxxxxxx",
```

```

    "PrivExceeded": "0",
    "AccountType": "Normal"
  }
],
},
"RequestId": "6C9E114C-217C-4118-83C0-B40702221161"
}

```

Error codes

[View error codes.](#)

9.2 ModifyAccountDescription

You can call this API to modify the description of an account of an ApsaraDB for Redis instance.

The engine version of the ApsaraDB for Redis instance must be Redis 4.0 or above.

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
AccountDescription	String	Yes	this is a test account	<p>The description of the account</p> <ul style="list-style-type: none"> The description must start with a letter, and cannot start with http:// or https://. The description can contain letters, underscores (_), hyphens (-), and digits. It can be 2 to 256 characters in length.

Parameter	Type	Required	Example	Description
AccountName	String	Yes	demoaccount	The name of the account. The name must start with a lowercase letter and can contain lowercase letters, digits, and underscores (_). The name can be 1 to 16 characters in length.
InstanceId	String	Yes	r-bp1xxxxxxxxxxxxx	The ID of the instance to which the account belongs.
Action	String	No	ModifyAccountDescription	The operation that you want to perform. Set this parameter to ModifyAccountDescription.
AccessKeyId	String	No	Lxxxxxxxxxxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8D0C0AFC-E9CD-47A4-8395-5C31BF9B3E76	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=ModifyAccountDescription
&InstanceId=r-bp1xxxxxxxxxxxxx
&AccountName=demoaccount
&AccountDescription=this is a test account
&<Common request parameters>
```

Sample success response

XML format

```
<ModifyAccountDescriptionResponse>
  <RequestId>8D0C0AFC-E9CD-47A4-8395-5C31BF9B3E76</RequestId>
</ModifyAccountDescriptionResponse>
```

JSON format

```
{
  "RequestId": "8D0C0AFC-E9CD-47A4-8395-5C31BF9B3E76"
}
```

Error codes

[View error codes.](#)

9.3 ResetAccountPassword

You can call this API to reset the password of an account of an ApsaraDB for Redis instance.

The engine version of the ApsaraDB for Redis instance must be Redis 4.0 or above.

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ResetAccountPassword	The operation that you want to perform. Set this parameter to ResetAccountPassword.
AccountName	String	Yes	demoaccount	The name of the account. The name must start with a lowercase letter and can contain lowercase letters, digits, and underscores (_). The name can be 1 to 16 characters in length.

Parameter	Type	Required	Example	Description
AccountPassword	String	Yes	uWonno_233	The new password. The password can be 8 to 32 characters in length and must contain at least three types of the following characters: uppercase letters, lowercase letters, digits, and special characters. Special characters include ! at signs (@), number signs (#), dollar signs (\$), percent signs (%), carets (^), ampersands (&), asterisks (*), parentheses (()), underscores (_), plus signs (+), hyphens (-), and equal signs (=).
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance to which the account belongs.
AccessKeyId	String	No	Lxxxxxxxxx xxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8BE02313-5395-4EBE-BAE7-E90A053F1E07	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/  
? Action=ResetAccountPassword  
&AccountName=demoaccount  
&AccountPassword=uWonno_233  
&InstanceId=r-bp1xxxxxxxxxxxxxx  
&<Common request parameters>
```

Sample success response

XML format

```
<ResetAccountResponse>  
  <RequestId>8D0C0AFC-E9CD-47A4-8395-5C31BF9B3E76</RequestId>  
</ResetAccountResponse>
```

JSON format

```
{  
  "RequestId": "8BE02313-5395-4EBE-BAE7-E90A053F1E07"  
}
```

Error codes

[View error codes.](#)

9.4 CreateAccount

You can call this API to create an account with the specified permission for an ApsaraDB for Redis instance.



Note:

- The engine version of the ApsaraDB for Redis instance must be Redis 4.0 or above.
- The ApsaraDB for Redis instance must be in the running status.
- A maximum of 18 accounts can be created for an ApsaraDB for Redis instance.

For more information about how to perform the corresponding operation in the console, see [Manage database accounts](#).


Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateAccount	The operation that you want to perform. Set this parameter to CreateAccount.
AccountName	String	Yes	demoaccount	The name of the account. The name must start with a lowercase letter and can contain lowercase letters, digits, and underscores (_). The name can be 1 to 16 characters in length.

Parameter	Type	Required	Example	Description
AccountPassword	String	Yes	uWonno233	The password of the account. The password can be 8 to 32 characters in length and must contain at least three types of the following characters: uppercase letters, lowercase letters, digits, and special characters. Special characters include ! at signs (@), number signs (#), dollar signs (\$), percent signs (%), carets (^), ampersands (&), asterisks (*), parentheses (()), underscores (_), plus signs (+), hyphens (-), and equal signs (=).
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance for which you want to create the account.
AccessKeyId	String	No	Lxxxxxxxxx xxxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.

Parameter	Type	Required	Example	Description
AccountPrivilege	String	No	RoleReadOnly	<p>The permission of the account</p> <ul style="list-style-type: none"> Valid values: <ul style="list-style-type: none"> RoleReadOnly RoleReadWrite (default value) RoleRepl <div style="background-color: #f0f0f0; padding: 5px;">  Note: In addition to reading data from and writing data to the ApsaraDB for Redis instance, an account with the RoleRepl permission can run the SYNC and PSYNC commands. The RoleRepl permission can be granted to an account only in an ApsaraDB for Redis instance of the standard edition in Redis 4.0. </div>
AccountDescription	String	No	this is a test account	<p>The description of the account</p> <ul style="list-style-type: none"> The description must start with a letter, and cannot start with http:// or https://. The description can contain letters, underscores (_), hyphens (-), and digits. It can be 2 to 256 characters in length.
AccountType	String	No	Normal	<p>The type of the account. Set this parameter to Normal.</p>

Response parameters

Parameter	Type	Example	Description
AccountName	String	demoaccount	The name of the account.

Parameter	Type	Example	Description
InstanceId	String	r-bp1xxxxxxx xxxxxx	The ID of the instance.
RequestId	String	ABAF95F6-35C1 -4177-AF3A- 70969EBDF624	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=CreateAccount
? AccountName=demoaccount
&AccountPassword=uWonno233
&InstanceId=r-bp1xxxxxxxxxxxxx
&<Common request parameters>
```

Sample success response

XML format

```
<CreateAccountResponse>
  <RequestId>ABAF95F6-35C1-4177-AF3A-70969EBDF624</RequestId>
  <AccountName>demoaccount</AccountName>
</CreateAccountResponse>
```

JSON format

```
{
  "RequestId": "ABAF95F6-35C1-4177-AF3A-70969EBDF624",
  "AccountName": "demoaccount"
}
```

Error codes

[View error codes.](#)

9.5 DeleteAccount

You can call this API to delete an account of an ApsaraDB for Redis instance.

- The engine version of the ApsaraDB for Redis instance must be Redis 4.0 or above
-
- The ApsaraDB for Redis instance must be in the running status.

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteAccount	The operation that you want to perform. Set this parameter to DeleteAccount.
AccountName	String	Yes	demoaccount	The name of the account. The name must start with a lowercase letter and can contain lowercase letters, digits, and underscores (_). The name can be 1 to 16 characters in length.
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance to which the account belongs.
AccessKeyId	String	No	Lxxxxxxxxx xxxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8129F11A-D70B-43A6-9455-CE9EAA71F095	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
```

```
? Action=DeleteAccount
&AccountName=demoaccount
&InstanceId=r-bp1xxxxxxxxxxxxxx
&<Common request parameters>
```

Sample success response

XML format

```
<DeleteAccountResponse>
  <RequestId>8129F11A-D70B-43A6-9455-CE9EAA71F095</RequestId>
</DeleteAccountResponse>
```

JSON format

```
{
  "RequestId": "8129F11A-D70B-43A6-9455-CE9EAA71F095"
}
```

Error codes

[View error codes.](#)

9.6 GrantAccountPrivilege


You can call this API to modify the permission of an account of an ApsaraDB for Redis instance.

- The engine version of the ApsaraDB for Redis instance must be Redis 4.0 or above
-
- The ApsaraDB for Redis instance must be in the running status.

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
AccountName	String	Yes	demoaccount	The name of the account. The name must start with a lowercase letter and can contain lowercase letters, digits, and underscores (_). The name can be 1 to 16 characters in length.
AccountPrivilege	String	Yes	RoleReadWrite	The permission of the account. . Valid values: <ul style="list-style-type: none"> RoleReadOnly RoleReadWrite (default value) RoleRepl <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;">  Note: In addition to reading data from and writing data to the ApsaraDB for Redis instance, an account with the RoleRepl permission can run the SYNC and PSYNC commands. The RoleRepl permission can be granted to an account only in an ApsaraDB for Redis instance of the standard edition in Redis 4.0. </div>
Action	String	Yes	GrantAccountPrivilege	The operation that you want to perform. Set this parameter to GrantAccountPrivilege.
InstanceId	String	Yes	r-bp1XXXXXXXXXXXX	The ID of the instance to which the account belongs.

Parameter	Type	Required	Example	Description
AccessKeyId	String	No	Lxxxxxxxxx xxxxxw	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
RequestId	String	3845BDF5-15A6-4444-B770-785018191E25	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=GrantAccountPrivilege
&InstanceId=r-bp1xxxxxxxxxxxxx
&AccountName=demoaccount
&AccountPrivilege=RoleReadOnly
&<Common request parameters>
```

Sample success response

XML format

```
<GrantAccountPrivilegeResponse>
  <RequestId>3845BDF5-15A6-4444-B770-785018191E25</RequestId>
</GrantAccountPrivilegeResponse>
```

JSON format

```
{
  "RequestId": "3845BDF5-15A6-4444-B770-785018191E25"
}
```

Error codes

[View error codes.](#)

10 Backup and recovery

10.1 ModifyBackupPolicy

Description

This API is used to query a backup policy.

Request parameters

Name	Type	Required	Description
<Common request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value : ModifyBackupPolicy.
InstanceId	String	Yes	Instance ID
PreferredBackupTime	String	Yes	Backup time, in the format of HH:mmZ–HH:mm Z
PreferredBackupPeriod	String	Yes	Backup cycle: <ul style="list-style-type: none"> Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Response parameters

Table 10-1: Response parameters

Name	Type	Description
<Common return parameters>	-	For more information, see Public return parameters .

Request example

```
https://r-kvstore.aliyuncs.com,
<Common request parameters>
&Action= ModifyBackupPolicy
&InstanceId= de5d88e34d004211
&PreferredBackupTime=00:00Z-04:00Z
&PreferredBackupPeriod= Saturday
```

Response example

```
"RequestId" : "5C97648D-C85F-4D58-A71F-7B6750856BF7"
```

10.2 DescribeBackupPolicy

Description

This API is used to query a backup policy you set. You can query the backup cycle, backup time, and other details of an instance.

Request parameters

Table 10-2: Request Parameters

Name	Type	Required	Description
<Common request parameter>	-	Yes	See Public parameters .
Action	String	Yes	Required parameter. Value : DescribeBackupPolicy.
InstanceId	String	Yes	Instance ID

Response parameters

Table 10-3: Response Parameters

Name	Type	Description
<Common return parameter>	-	See Public return parameters .
BackupRetentionPeriod	String	Backup retention period

Name	Type	Description
PreferredBackupTime	String	Backup time, in the format of HH:mmZ- HH:mm Z
PreferredBackupPeriod	String	Backup cycle: <ul style="list-style-type: none"> • Monday • Tuesday • Wednesday • Thursday • Friday • Saturday • Sunday
PreferredNextBackupTime	String	Next backup time

Example

```
Https://r-kvstore.aliyuncs.com
<Common request parameter>
&Action= DescribeBackupPolicy
&InstanceId= de5d88e34d004211
```

Response example

```
"BackupRetentionPeriod": "7"
"PreferredBackupTime": "06:00Z-07:00Z"
"PreferredNextBackupTime": "2017-10-19T06:16Z"
"PreferredBackupPeriod": "Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday"
"RequestId" : "5C97648D-C85F-4D58-A71F-7B6750856BF7"
```

10.3 DescribeBackups

Description

This API is used to query the details of a backup file, including the backup start time, file size, backup mode, download address, and other information.

Request parameters

Table 10-4: Request Parameters

Name	Type	Required	Description
<Common request parameters>	-	Yes	see Public parameters .
Action	String	Yes	Required parameter. Value: DescribeBackups.
InstanceId	String	Yes	Instance ID
BackupId	String	No	Backup set ID
PagSize	String	Yes	Number of records per page. Supported values: 30, 50, and 100.
PageNumber	String	Yes	Page number. It must be greater than 0 and cannot exceed the maximum value of the given Integer.
StrarTime	String	Yes	Query start time
EndTime	String	Yes	Query end time

Response parameters

Table 10-5: Response parameters

Name	Type	Description
<Common return parameter>	-	See Public return parameters .
Backups	List	An array composed of Backups
PageNumber	Integer	Page number
TotalCount	Integer	Total number of backups
PageSize	Integer	Number of records per page

Backup parameter structure

Table 10-6: Backup parameter structure

Name	Type	Description
BackupId	String	Backup set ID
BackupDBNames	String	Backup database name
BackupStatus	String	Backup set status: <ul style="list-style-type: none"> • Success • Failed
BackupStartTime	String	Backup start time
BackupEndTime	String	Backup end time
BackupType	String	Backup Type: <ul style="list-style-type: none"> • Fullbackup • IncrementalBackup
BackupMode	String	Backup mode: <ul style="list-style-type: none"> • Automated • Manual
BackupMethod	String	Backup method: <ul style="list-style-type: none"> • Logical • Physical
BackupDownloadURL	String	Download address of the backup file
BackupSize	String	Backup size

Example

```

Https://r-kvstore.aliyuncs.com
?<Common request parameter>
&Action= DescribeBackups
&InstanceId= de5d88e34d004211
& Pagenumber = 1
& Pagesize = 10
&InstanceId=de5d88e34d004211

```

Response example

```

" Backups " : {
  " Backup " : [{

```

```


        "BackupId": "187709043",
        "BackupDBNames": "all",
        "BackupStatus": "Success",
        BackupType: fullbackup ",
    "BackupStartTime": "2017-10-18T10:34:52Z",
    "BackupEndTime": "2017-10-18T10:36:06Z",
    "BackupMode": "Manual",
    "BackupMethod": "Physical",
    "BackupDownloadURL": "https://rdsbak-st-v2.oss-cn-shenzhen.aliyuncs.com/custins4588367/hins3402581_data_20171018183408.rdb?OSSAccessKeyId=AAAAAAAAAAAAAAAA&Expires=1508409386&Signature=rYyFYVdM0hhTJ0TAPafGc6oJSuk%3D",
    "BackupSize": "1024"

    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 1,
    "RequestId" : "5C97648D-C85F-4D58-A71F-7B6750856BF7"
    
```

10.4 RestoreInstance

Description

This API is used to recover data to the master instance based on a backup set.

 **Notice:**
This operation may have a high risk because the backup data will cover the instance data.

Request parameters

Table 10-7: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value: RestoreInstance.
InstanceId	String	Yes	Instance ID
BackupId	String	Yes	Backup result set ID

Response parameters

Table 10-8: Response parameters

Name	Type	Description
<Common return parameters>	-	For more information, see Public return parameters .

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action= RestoreInstance
&InstanceId= de5d88e34d004211
&BackupId=fdafasf111
```

Response example

```
"RequestId" : "AFA391BF-808F-4DA6-80A2-A382108A0945"
```

11 Monitoring Management

11.1 DescribeMonitorItems

Description

This API is used to query the list of available monitoring parameters. The results are returned in the format of <parameter:unit>.

Request parameters

Table 11-1: Request parameters

Name	Type	Required or not	Description
<Common request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value : DescribeMonitorItems.

Response parameters

Table 11-2: Response parameters

Name	Type	Description
<Common return parameters>	-	For more information, see Public return parameters .
MonitorItems	List	List of each monitoring parameter that can be viewed.

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
```

```
&Action=DescribeMonitorItems
```

Response example

```
"MonitorItems" : {
  "MonitorItem" : [{
    "MonitorKey" : "GetQ",
    "Unit" : "Counts/s"

    "MonitorKey" : "Flush",
    "Unit" : "Counts/s"

    "MonitorKey" : "UsedMemCache",
    "Unit" : "Bytes"

    "MonitorKey" : "ReplaceQ",
    "Unit" : "Counts/s"

  ]

  "RequestId" : "B906A893-58A3-4644-AC2D-A2C9B08706C1"
```

11.2 DescribeHistoryMonitorValues

Description

This API is used to view the historical monitoring data of an instance.

Request parameters


Table 11-3: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value : DescribeHistoryMonitorValues.
InstanceId	String	Yes	Instance ID

Name	Type	Required	Description
StartTime	String	Yes	Start time of the historical monitoring data. The time format follows the ISO8601 notation, , and the UTC time is used in the format of YYYY-MM-DDThh:mm:ssZ.
EndTime	String	Yes	End time of the historical monitoring data. The time format follows the ISO8601 notation, and the UTC time is used in the format of YYYY-MM-DDThh:mm:ssZ. The value of EndTime must be greater than or equal to that of StartTime.
IntervalForHistor	String	Yes	The interval between historical monitoring data. Unit: m (minutes). Value: 01m, 05m, 15m, or 60m.
MonitorKeys	String	No	Metric key. The value of this parameter is queried using the DescribeMonitorItems function.

Response parameters

Table 11-4: Response parameters

Name	Type	Description
<Common return parameters>	-	For more information, see Public return parameters .
MonitorHistory	String	Monitoring information returned in JSON format. For more information about returned metrics, see View a metric list .  Notice: To improve the data transmission efficiency, only metrics whose values are not 0 are returned. Metrics not displayed are all set to the default value 0.

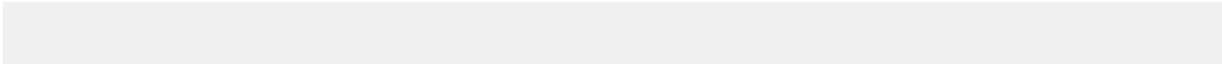
Request example

```
https://r-kvstore.aliyuncs.com、
<Public request parameters>
&Action= DescribeHistoryMonitorValues
&InstanceId= de5d88e34d004211
&EndTime=2014-11-27T12%3A02%3A00Z
&StartTime=2014-11-27T12%3A00%3A00Z
&IntervalForHistory=01m
```

Response example

```
"MonitorHistory" :
{"2014-11-27T12:00:00Z":{"IsConnectControl":false,"IsFlowControl":false,"ItemCount":1,"QuotaConnection":500,"QuotaFlow":15360,"QuotaMemCache":1073741824,"QuotaQps":9000,"UsedMemCache":14},
"2014-11-27T12:01:00Z":{"IsConnectControl":false,"IsFlowControl":false,"ItemCount":1,"QuotaConnection":500,"QuotaFlow":15360,"QuotaMemCache":1073741824,"QuotaQps":9000,"UsedMemCache":14},
"2014-11-27T12:02:00Z":{"IsConnectControl":false,"IsFlowControl":false,"ItemCount":1,"QuotaConnection":500,"QuotaFlow":15360,"QuotaMemCache":1073741824,"QuotaQps":9000,"UsedMemCache":14}

"RequestId" : "5C97648D-C85F-4D58-A71F-7B6750856BF7"
```



12 Network security

12.1 ModifySecurityIps

Description

Set the instance's IP whiteable list, and you can select the allowed ECs IP Access instance.

Request parameters

Table 12-1: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	Yes	For more information, see Public parameters .
Action	String	Yes	Required parameter. Value: ModifySecurityIps.
InstanceId	String	Yes	Instance ID (globally unique)
SecurityIps	String	Yes	IP address whitelist to be modified
SecurityIpGroupName	String	Yes	Whitelist group

Response parameters

Table 12-2: Response parameters

Name	Type	Description
<Common return parameters>	-	For more information, see Public return parameters .

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action= ModifySecurityIps
```

```
&InstanceId=657e361a074646d5
&SecurityIps=1.1.1.1, 2.2.2.2
&SecurityIpGroupName=testgroup
```

Response example

```
"RequestId" : "AAAF99B1-69ED-4E80-8CD5-272C09E46ACF"
```

12.2 ModifyInstanceSSL

You can call this API to configure SSL encryption for an ApsaraDB for Redis instance.

For more information about how to perform the corresponding operation in the console, see [Configure SSL encryption](#).

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyInstanceSSL	The operation that you want to perform. Set this parameter to ModifyInstanceSSL.
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance for which you want to configure SSL encryption.

Parameter	Type	Required	Example	Description
SSLEnabled	String	Yes	Enable	Specifies how to modify the SSL encryption status. Valid values: <ul style="list-style-type: none"> • Disable: disables SSL encryption. • Enable: enables SSL encryption. • Update: updates the SSL certificate.
AccessKeyId	String	No	LXXXXXXXXX XXXXXX	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
InstanceId	String	r-bp1xxxxxxxx xxxxxx	The ID of the instance for which SSL encryption was configured.
TaskId	String	1111111111	The ID of the task.
RequestId	String	52D901ED-E0A5 -42FB-B9DB- 39C295C37738	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/
? Action=ModifyInstanceSSL
&InstanceId=r-bp1xxxxxxxxxxxxxx
&SSLEnabled=Enable
&<Common request parameters>
```

Sample success response

XML format

```
<ModifyInstanceSSLResponse>
```

```
<InstanceId>r-xxxxxxxxxxxxxxxx</InstanceId>
<RequestId>52D901ED-E0A5-42FB-B9DB-39C295C37738</RequestId>
<TaskId>1111111111</TaskId>
</ModifyInstanceSSLResponse>
```

JSON format

```
{
  "RequestId": "52D901ED-E0A5-42FB-B9DB-39C295C37738",
  "InstanceId": "r-xxxxxxxxxxxxxxxx",
  "TaskId": "1111111111"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	IncorrectDBInstanceState	Current DB instance state does not support this operation.	The error message returned because the status of the instance does not support this operation. This operation is supported only when the instance is in the running status.
403	IncorrectDBInstanceLockMode	Current DB instance lock mode does not support this operation.	The error message returned because the current lock mode of the instance does not support this operation.
400	InvalidParameters.Format	Specified parameters are not valid.	The error message returned because the specified parameters are invalid.

[View error codes.](#)

12.3 ModifyInstanceVpcAuthMode

You can call this operation to enable or disable password-free access for an ApsaraDB for Redis instance. When the password-free access feature is enabled, Elastic Compute Service (ECS) instances in the same Virtual Private Cloud (VPC) can


access the ApsaraDB for Redis instance without the password. You can also use the username and password to access the ApsaraDB for Redis instance.

For more information about how to perform the corresponding operation in the console, see [#unique_48](#).

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyInstanceVpcAuthMode	The operation that you want to perform. Set this parameter to ModifyInstanceVpcAuthMode.
InstanceId	String	Yes	r-bp1xxxxxxx xxxxxx	The ID of the instance for which you want to enable or disable password-free access.
VpcAuthMode	String	Yes	Close	Specifies whether to enable password authentication for access within the VPC. Valid values: <ul style="list-style-type: none"> Open: enables password authentication. Close: disables password authentication. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;">  Note: Default value: Open. </div>
AccessKeyId	String	No	LXXXXXXXXX XXXXXX	The AccessKey ID that Alibaba Cloud provides for you to access services.

Response parameters

Parameter	Type	Example	Description
RequestId	String	ABAF95F6-35C1-4177-AF3A-70969EBDF623	The ID of the request.

Examples

Sample request

```
https://r-kvstore.aliyuncs.com/  
? Action=ModifyInstanceVpcAuthMode  
&InstanceId=r-bp1xxxxxxxxxxxxxx  
&VpcAuthMode=Close  
&<Common request parameters>
```

Sample success response**XML format**

```
<ModifyInstanceVpcAuthModeResponse>  
  <RequestId>ABAF95F6-35C1-4177-AF3A-70969EBDF623</RequestId>  
</ModifyInstanceVpcAuthModeResponse>
```

JSON format

```
{  
  "RequestId": "ABAF95F6-35C1-4177-AF3A-70969EBDF623"  
}
```

Error codes

[View error codes.](#)

13 Parameter Management

13.1 ModifyInstanceConfig

Description

This API is used to change the configuration parameters of an instance.

Request parameters

Table 13-1: Request parameters

Name	Type	Required	Description
<Public request parameter>	-	Yes	See Public parameters .
Action	String	Yes	Required parameter. Value : ModifyInstanceConfig.
InstanceId	String	Yes	Instance ID
Config	String	Yes	Instance configuration parameter (JSON String). For more information, see Instance configurations table .

Response parameters

Table 13-2: Response parameters

Name	Type	Description
<Public return parameter >	-	See also.

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action= ModifyInstanceConfig
```

```
&InstanceId= de5d88e34d004211
&Config={"hash-max-ziplist-entries":"512"}
```

Response example

```
"RequestId":"59A58517-F8FF-44E5-B90F-F386DB3E4AB8"
```

13.2 DescribeInstanceConfig

Description

This API is used to view the configuration parameters of an instance.

Request parameters

Table 13-3: Request parameters

Name	Type	Required	Description
<Common request parameters>	-	Yes	See Public parameters .
Action	String	Yes	Required parameter. Value : DescribeInstanceConfig.
InstanceId	String	Yes	Instance ID

Response parameters

Table 13-4: Response parameters

Name	Type	Description
<Common return parameters>	-	See Public return parameters .
Config	String	Configuration parameters for the instance. See Instance configurations table .

Request example

```
https://r-kvstore.aliyuncs.com
<Common request parameters>
&Action= DescribeInstanceConfig
```

```
&InstanceId= de5d88e34d004211
```

Response example

```
"Config":{"EvictionPolicy":"volatile-lru","hash-max-ziplist-entries":512,"hash-max-ziplist-value":64,"list-max-ziplist-entries":512,"list-max-ziplist-value":64,"set-max-intset-entries":512,"zset-max-ziplist-entries":128,"zset-max-ziplist-value":64},"RequestId":"59A58517-F8FF-44E5-B90F-F386DB3E4AB8"
```

14 Appendix

14.1 Instance types

For more information about instance types, see [#unique_55](#).

14.2 Error code table

Error code description	Code	message	httpStatusCode
The API called by the subaccount is unauthorized.	Forbidden.RAM	User not authorized to operate on the specified resource, or this API doesn't support RAM.	403
The operation is unavailable in RAM mode.	Forbidden. NotSupportRAM	This action does not support accessed by RAM mode.	403
An exception or error occurs on the server.	ServiceUnavailable	The request has failed due to a temporary failure of the server.	503
The input instance status does not exist.	InvalidStatus. NotFound	The Status provided does not exist in our records .	404
The input parameter is invalid.	InvalidParameter	The specified parameter InstanceName is not valid.	400

Error code description	Code	message	statusCode
A common user calls on management APIs.	Forbidden. NotAdminUser	User not authorized to operate on the specified API as you are not the administrator.	403
The parameter is missing.	MissingParameter	Specified parameter is missing.	400
At least one of the InstanceName and NewPassword is included.	MissingParameter	InstanceName /NewPassword at least one is mandatory for this action.	400
No OwnerId is specified when this API is called.	MissingParameter	The input parameter OwnerId, OwnerAccount that is mandatory for processing this request is not supplied.	403
The specified Token is invalid.	InvalidToken. Malformed	The Specified parameter "Token" is not valid.	400
The specified InstanceName is invalid.	InvalidInstanceName. Malformed	The Specified parameter "InstanceName" is not valid.	400
The specified Password is invalid .	InvalidPassword. Malformed	The Specified parameter "Password" is not valid."	400
The specified Instances is invalid .	InvalidInstances. Malformed	The Specified parameter "Instances" is not valid.	400

Error code description	Code	message	statusCode
The specified StartTime is invalid.	InvalidStartTime.Malformed	The Specified parameter "StartTime" is not valid.	400
The specified EndTime is invalid.	InvalidEndTime.Malformed	The Specified parameter "EndTime" is not valid.	400
The specified InstanceIds is invalid.	InvalidInstanceIds.Malformed	The Specified parameter "InstanceIds" is not valid.	400
The balance is insufficient.	InsufficientBalance	Your account does not have enough balance.	400
You have not performed real-name authentication.	RealNameAuthenticationError	Your account has not passed the real-name authentication yet.	403
The purchase quantity has exceeded the limit.	QuotaExceed	Living afterpay instances quota exceeded.	400
The capacity configuration is invalid.	InvalidCapacity.NotFound	The Capacity provided does not exist in our records.	400
A used client token is used for the request. However, the content of the request is different from that of the previous request with the used token.	IdempotentParameterMismatch	Request uses a client token in a previous request but is not identical to that request.	400
The storage in the specified zone is insufficient.	QuotaNotEnough	Quota not enough in this zone.	400

Error code description	Code	message	statusCode
You are not authorized to call the order-class APIs.	Forbidden.SubUser	The specified action is not available for you.	403
Access is denied by the Alibaba Cloud risk control system .	Forbidden.RiskControl	This operation is forbidden by Aliyun Risk Control system.	403
The specified Region does not exist.	InvalidRegion.NotFound	The RegionId or ZoneId provided does not exist in our records.	404
The specified ZoneId is invalid.	InvalidZoneId.NotFound	The ZoneId provided is invalid.	400
The instance ID does not exist.	InvalidInstanceId.NotFound	The InstanceId provided does not exist in our records .	404
The password is incorrect.	IncorrectPassword	The Password provided is not correct.	400
The service is unavailable.	ServiceNotSupported	The specified service is not supported.	400
A renewal and configuration change order does not take effect.	HasRenewChangeOrder	This instance has a renewChange order.	400
An internal error occurs.	InternalError	The request processing has failed due to some unknown error.	500
The backup time is invalid.	InvalidPreferredBackupTime	Specified preferred backup time is not valid.	400
The input backup type is invalid.	InvalidBackupType.Format	Specified backup type is not valid.	400

Error code description	Code	message	statusCode
The input backup method is invalid.	InvalidBackupMethod.Format	Specified backup method is not valid .	400
A backup job already exists , which is not supported.	BackupJobExists	A backup job already exists in the specified DB instance.	400
The number of backup times exceeds the limit.	BackupTimesExceeded	Exceeding the daily backup times of this DB instance.	400
Input at least one parameter.	ParameterLeastAssociate	Must input at least one optional parameter.	400
The input backup retention period is invalid.	InvalidBackupRetentionPeriod.Malformed	Specified backup retention period is not valid.	400
The input next backup time is invalid.	InvalidPreferredBackupTime.Format	Specified preferred backup time is not valid.	400
The input backup cycle is invalid.	InvalidPreferredBackupPeriod.Malformed	Specified backup period is not valid.	400
The current instance type does not support this operation.	IncorrectDBInstanceType	Current DB instance type does not support this operation	400
The input key is invalid.	InvalidKey.Malformed	Specified key is not valid.	400
The signature is used.	SignatureNonceUsed	Specified signature nonce was used already.	400
No virtual IP address can be assigned.	AllocateVpcIp.NotEnough	Ip resource is not enough	400

Error code description	Code	message	statusCode
Instances of the specified type cannot be created in the zone.	Zone.NotSupport	Specified zone does not support creating with instance class.	400
The specification code is invalid.	MissingClassCode	Capacity or InstanceClass is mandatory for this action.	400
The specified instance type is not supported.	InvalidDBInstanceClass.NotFound	Specified DB instance class is not found.	404
The instance is locked.	IncorrectDBInstanceLockMode	Current DB instance lock mode does not support this operation.	400
The backup set ID does not exist.	InvalidBackupSetID.NotFound	Specified backup set ID does not exist.	400
The instance status does not support this operation.	IncorrectDBInstanceState	Current DB instance state does not support this operation.	400
The resources are insufficient.	InsufficientResourceCapacity	There is insufficient capacity available for the requested instance.	400
The input end time is invalid.	InvalidEndTime.Format	Specified end time is not valid.	400
The input duration for reserving a classic IP address is invalid.	InvalidClassicExpiredDays.Format	The specified classicExpiredDays format is not valid.	400
The backup set status does not support this operation.	IncorrectBackupSetState	Current backup set state does not support operations.	400

Error code description	Code	message	statusCode
The whitelist format is invalid.	InvalidSecurityIPList.Format	Specified security IP list format is not valid.	400

14.3 Instance configurations table

Table 14-1: The following table describes parameter configuration of ApsaraDB for Redis instances.

Parameter	Meaning	Parameter value
maxmemory-policy	The eviction policy when the memory exceeds the threshold value. ApsaraDB for Redis supports six data eviction policies.	<ul style="list-style-type: none"> • VolatileLRU: Original data is evicted based on the LRU algorithm, but only data with an expiration time is evicted. • VolatileTTL: Only data with an expiration time is evicted based on the TTL values in ascending order. • AllKeysLRU: Original data is evicted based on the LRU algorithm. • VolatileRandom: Original data is evicted randomly, but only data with an expiration time is evicted. • AllKeysRandom: Original data is evicted randomly. • NoEviction: No data is evicted, and an error message is returned when new data is written.

Parameter	Meaning	Parameter value
hash-max-ziplist-entries	<p>A hash object uses ziplist encoding only if the hash object meets both of the following conditions:</p> <ul style="list-style-type: none"> • The number of key-value pairs stored in the hash object is smaller than or equal to the value of list-max-ziplist-entries. • The string lengths of keys and values in all key-value pairs stored in the hash object are smaller than or equal to the value of list-max-ziplist-value. 	Default value: 512
hash-max-ziplist-value	<p>A hash object uses ziplist encoding only if the hash object meets both of the following conditions:</p> <ul style="list-style-type: none"> • The number of key-value pairs stored in the hash object is smaller than or equal to the value of list-max-ziplist-entries. • The string lengths of keys and values in all key-value pairs stored in the hash object are smaller than or equal to the value of list-max-ziplist-value. 	Default value: 64

Parameter	Meaning	Parameter value
list-max-ziplist-entries	<p>A list object uses ziplist encoding only if the list object meets both of the following conditions:</p> <ul style="list-style-type: none"> • The number of key-value pairs stored in the list object is smaller than or equal to the value of list-max-ziplist-entries. • The string lengths of keys and values in all key-value pairs stored in the list object are smaller than or equal to the value of list-max-ziplist-value. 	Default value: 512
list-max-ziplist-value	<p>A list object uses ziplist encoding only if the list object meets both of the following conditions:</p> <ul style="list-style-type: none"> • The number of key-value pairs stored in the list object is smaller than or equal to the value of list-max-ziplist-entries. • The string lengths of keys and values in all key-value pairs stored in the list object are smaller than or equal to the value of list-max-ziplist-value. 	Default value: 64

Parameter	Meaning	Parameter value
set-max-intset-entries	When a set object meets the conditions that the number of entries is smaller than or equal to the value of set-max-intset-entries and all entries are decimal integers, the set object uses intset encoding.	Default value: 512
zset-max-ziplist-entries	<p>A zset object uses ziplist encoding only if the zset object meets both of the following conditions:</p> <ul style="list-style-type: none"> • The number of key-value pairs stored in the zset object is smaller than or equal to the value of zset-max-ziplist-entries. • The string lengths of keys and values in all key-value pairs stored in the zset object are smaller than or equal to the value of zset-max-ziplist-value. 	Default value: 128

Parameter	Meaning	Parameter value
zset-max-ziplist-value	<p>A zset object uses ziplist encoding only if the zset object meets both of the following conditions:</p> <ul style="list-style-type: none">• The number of key-value pairs stored in the zset object is smaller than or equal to the value of zset-max-ziplist-entries.• The string lengths of keys and values in all key-value pairs stored in the zset object are smaller than or equal to the value of zset-max-ziplist-value.	Default value: 64

Parameter	Meaning	Parameter value
notify-keyspace-events	The keyspace notifications allow clients to subscribe to channels or modes to receive events modifying Redis datasets in some way.	<ul style="list-style-type: none"> • - K: The keyspace notifications. All notifications are prefixed with <code>__keyspace@__</code>. • - E: The keyevent notifications. All notifications are prefixed with <code>__keyevent@__</code>. • - g: The notifications about general commands that are non-type specific, such as DEL, EXPIRE, and RENAME. • - \$: The string command notifications. • - l: The list command notifications. • - s: The set command notifications. • - h: The hash command notifications. • - z: The sorted set command notifications. • - x: The expired events. An expired event is sent when an expired key is deleted. • - e: The evicted events. An evicted event is sent when a key is evicted for maxmemory. • - A: The alias for g\$lshzxe.