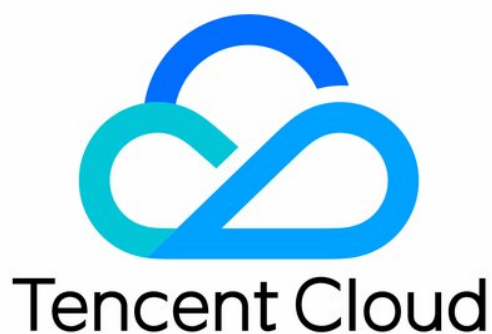


TencentDB for Redis®

Getting Started



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Getting Started

Creating TencentDB for Redis Instance

Last updated: 2024-11-01 16:00:38

Scenario

This document describes how to purchase and configure your first [TencentDB for Redis®](#) instance.

Preparations

- You have registered a Tencent Cloud account and completed identity verification.
 - Click [here to register a Tencent Cloud account](#).
 - To complete identity verification: [Click here to verify your identity](#).
- Plan the region and availability zone for your database instance. Refer to [Regions and Availability Zones](#).
- If you have determined the specification and performance requirements of the instance, see [Product Series](#) and [Performance](#).
- If you have planned the private network and security group for the database instance, see [Private Network](#) and [Security Group](#).
- To deploy the instance across multiple AZs in the same region, learn more about the architecture of [multi-AZ deployment](#) first.
- To support [read/write separation](#), learn more about how it is implemented first.
- If you have checked out the billing details of the instance, see [Billing Overview](#). Database fees for one hour will be frozen when you create a pay-as-you-go database. Make sure that your account balance is sufficient before making a purchase.

Instructions

1. Log in to the [TencentDB for Redis® purchase page](#) with your Tencent Cloud account.
2. Configure the instance as needed based on the parameter descriptions below:

Parameter	Required or not	Description
Billing Mode	Supported	Supports monthly subscription and pay-as-you-go billing. For guidance on choosing a billing method, see Billing

		Overview .
Region	Supported	Select a region where your instance resides. You should select a region closest to you to reduce access latency. • Note that the region cannot be changed after the instance is successfully created. • We recommend that you select the same region as the CVM instance for private network communication. • Tencent Cloud products in different regions cannot communicate with each other over the private network. For example, CVM instances in Guangzhou region cannot access TencentDB for Redis® instances in Shanghai region over the private network. Select a region with caution, as it cannot be changed after purchase. If you need cross-region communication over the private network, see Peering Connection .
Product Version	Supported	Select Memory Edition , a high-performance edition based on the open-source Redis engine. The CKV Edition is currently unavailable.
Compatible Versions	Supported	• It is a high-performance edition based on open-source Redis and compatible with Redis 6.2, 5.0, 4.0, and 2.8. • v2.8 is unavailable for purchase currently, and v4.0 or above is recommended. To purchase v2.8, submit a ticket .
Architecture Version	Supported	Choose the product deployment architecture. For more information, see Memory Edition (Standard Architecture) and Memory Edition (Cluster Architecture) . • v4.0 and above supports standard architecture and cluster architecture. • v2.8 only supports the standard architecture.
Memory Capacity	Supported	When selecting the Standard Architecture , you need to configure the required memory specifications, which range from 256MB to 64GB.
Replica Quantity	Supported	• Choose the number of database replicas. Multiple replicas provide high availability for primary and secondary instances, increase data security, and enable read-only performance scaling through replicas.

		The replica quantity may vary by region or edition as configured in the console by default.
Shard Quantity	Supported	When selecting Cluster Architecture for the architecture version, you need to set the number of shards. Increasing the number of shards can enhance the storage capacity of the cluster. Please choose according to your needs.
Shard Capacity	Supported	When selecting the cluster architecture , you need to set the capacity size for each shard.
Specification Preview	–	Preview the selected specification and the supported maximum number of connections and maximum network throughput to verify whether they meet your expectations.
Read-Only Replica	Not required	Specify whether to enable read/write separation. - After read/write separation is enabled, write operations are routed to the master node, and read operations are routed to the replica node. The data read from the replica node will be delayed after the master node. - If you don't enable read/write separation upon purchase, you can also enable it later as needed. For more information, see Read/Write Separation.
Network type	Supported	Currently, only VPC is supported.
AZ	Supported	Choose whether to enable Multi-AZ deployment. Both single-AZ and multi-AZ deployments are supported. Compared to single-AZ instances, multi-AZ instances offer higher availability and disaster recovery capabilities. For more information, see Multi-AZ Deployment. - If the master node is deployed in a single AZ, specify an AZ for it. - If the source instance is deployed in multiple AZs, after selecting the master AZ, you need to specify an AZ for a replica in the drop-down list of replica x, where x is the replica number, such as replica 1 and replica 2.
IPv4 Network	Supported	Select the specific Virtual Private Cloud (VPC) and subnet. We recommend choosing the same VPC in the same region as the cloud server. VPCs are region-specific (e.g., Guangzhou), while subnets are AZ-specific (e.g., Guangzhou Zone 1). One VPC can be divided into one or multiple subnets, which are interconnected over the private network by default.

		Different VPCs are isolated over the private network by default, no matter whether they are in the same or different regions. After purchasing an instance, you can switch to a private network as detailed in Switching Networks. You can also click Create VPC and Create Subnet to establish the desired network environment. For more information, refer to Creating a VPC.
Port	Supported	Customize the port number, which is 6379 by default and ranges from 1024 to 65535. You can modify it after the purchase.
Parameter Template	Supported	Select the parameter template associated with the instance. - The system will automatically adapt the corresponding default template based on the selected compatible version and architecture, allowing you to configure parameters in batches for the instance. For more information, see the default template in Managing Parameter Templates. - To create your own template, click Create Parameter Template. For detailed instructions, please refer to Managing Parameter Templates.
Specify Project	Supported	Assign the instance to a project from the drop-down list for easy management. - By default, the specified project is Default Project. - Click Create Project to enter the Project Management page and customize the project name to manage your Tencent Cloud resources.
Tags	Not required	Add tags to your instance for easy classification and management. Click Add to select tag keys and values.
Security Group	Supported	Set security group rules to control the inbound traffic to your database. You can either select a security group from the Existing Security Groups drop-down list or click Custom Security Groups to create one and set new inbound rules. For more information, see Configuring Security Group.

		After selecting a security group from the drop-down list, click Preview Rules to learn about the protocol rules and policies of this security group.
Instance name	Supported	You can enter up to 60 letters, digits, hyphens, and underscores.
Custom Password	Supported	Choose an authentication method, either Password Authentication or No Password Authentication . The default is Password Authentication .
Password	Not required	Set Password: When choosing Password Authentication, you need to set an access password for the instance. The password complexity requirements are: - Contain [8,32] characters. - It must contain at least two of the following four types: lowercase letters, uppercase letters, digits, and symbols ((),`~!@#\$%^&*~+=_[]{};:<>,.?/). - It cannot start with a slash (/)
Confirm password	Not required	Enter the access password for the instance again.
Quantity	Supported	The maximum number of monthly subscribed instances is 100 for each purchase. You can purchase up to 30 pay-as-you-go instances at a time. 1-100 instances can be purchased in each region.
Validity Period	Not required	If you select the Monthly Subscription billing mode, you need to choose the duration of the instance purchase. The longer the duration, the greater the discount, allowing you to select based on your actual business needs.
Auto-renewal	Not required	If you select the Monthly Subscription billing mode, you can choose whether to enable the Auto-Renewal feature. If enabled, after the instance expires, fees will be automatically deducted monthly from your Tencent Cloud account.
Terms of Service	Supported	- Click TencentDB Terms of Service to fully understand the content, service fees, usage rules, intellectual property rights, and other related terms for using TencentDB services. - Click Service Level Agreement to learn about the agreement that needs to be followed when using

TencentDB for Redis®.

- Select I have read and agreed to the TencentDB Service Level Agreement and Service Level Agreement.

3. After verifying that the parameters are correctly configured, click **Buy Now**. After the purchase success message is displayed, click **Go to Console**. After the instance becomes **Running** in the status, you can use it normally.

See Also

Use a CVM instance to directly access the private network address of the TencentDB instance. For more information, see [Connecting to TencentDB for Redis® Instance](#).

Related Actions

Changing instance specifications

You can flexibly adjust the Redis instance specifications based on your actual business needs, thereby better optimizing resource utilization and real-time cost optimization. For specific operations, please see [Changing Instance Specifications](#).

Assign instance to project

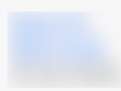
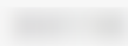
Assigned instances can be reassigned to other projects. For detailed directions, see [Assigning Instances to Projects](#).

Editing instance tag

For instances with assigned tags, you can also edit tag keys and values again. For directions, see [Editing Instance Tag](#).

Renaming instance

If the current instance name is not easily identifiable or manageable, you can click  in the **Instance ID / Name** column of the **Instance List** to rename the instance.

☐	Instance ID / ...	Status/Monitoring	Project	Network	Billing Mo...	Engine/Ver...	Used/Total	Creation Time	Operation
☐	 	 To be initialized Please first Initialize Password	Default Project		Pay as you go				Log In Configure More

Resetting instance access password

If you have forgotten the default account password or need to update an old password, you can reset the password directly. For detailed instructions, please refer to [Reset Password](#).

Upgrading Instance

- TencentDB for Redis® instances can be upgraded from an earlier version to a later version, with cross-version upgrade supported. For detailed directions, see [Upgrading Instance Version](#).
- TencentDB for Redis® instances can be upgraded from Standard Architecture to Cluster Architecture. For detailed directions, see [Upgrading Instance Architecture](#).

Overdue Payment

After activating TencentDB for Redis®, please ensure that your account balance is sufficient. Insufficient account balance may lead to overdue payments or even instance reclamation. For more information, see [Overdue Payment Instructions](#).

Related APIs

API Name	Feature
CreateInstances	Creating a TencentDB for Redis® instance
ModifyInstance	Modifies the information of an instance

Connecting to TencentDB for Redis Instance

Last updated: 2024-12-27 22:37:08

Scenario

Once the instance is successfully created and is in a running state, you can access the database to execute read, write, and query operations using Redis commands. This guide details three methods for database connectivity.

- **Connection via Client Tool:** Connect to the database using a Redis client on a CVM instance through the TencentDB instance's auto-assigned private network address. This method includes both Linux and Windows CVM instances. This connection method utilizes high-speed private network with low latency. The CVM instance and the database must be under the same account and in the same [VPC](#) (ensuring they are in the same region) or both in the classic network.

ⓘ Note:

- For CVM and TencentDB instances in different VPCs, whether under the same or different accounts and in the same or different regions, please see [Cloud Connect Network](#) for private network connection methods.
- CVM and TencentDB instances in different VPCs can be connected through the public network address as instructed in [Configuring Public Network Address](#).

- **Connection via DMC:** You can use Tencent Cloud Database Management Center (DMC) to log in to your TencentDB instance to access them, view their key metric information, and run Redis commands.
- **Connecting Multi-Language SDKs:** You can connect to a TencentDB for Redis® instance by configuring its private IP address, port, instance ID, and password in the SDK for the corresponding programming language. Then, you can manipulate the database, set keys, retrieve keys, and perform other operations.

Preparation

- Get your TencentDB for Redis® instance ready. For more information, see [Creating TencentDB for Redis® Instance](#).
- Ensure that you have the database account and password ready. For more information, see [Managing Account](#). You can use either the default account or a custom account.

- Configure security group rules for the CVM instance and the TencentDB for Redis® instance. For more information, see [Configuring Security Group](#).
- Acquire the [Private IPv4 Address](#) for connecting to the database in the **Network Information** section on the **Instance Details** page in the **TencentDB for Redis® Console**.

Connection via the Client Tool

ⓘ Note:

Currently, Redis 6.2 does not support the RESP3 protocol.

Connecting from a Linux CVM instance

Step 1. Prepare the environment

1. Log in to the Linux CVM instance. For more information, see [Quickly Configuring Linux CVM](#).
2. Taking a CVM instance on CentOS as an example, install the Redis client by running the following command:

```
yum install redis -y
```

If `Complete!` is displayed, the client is installed successfully.

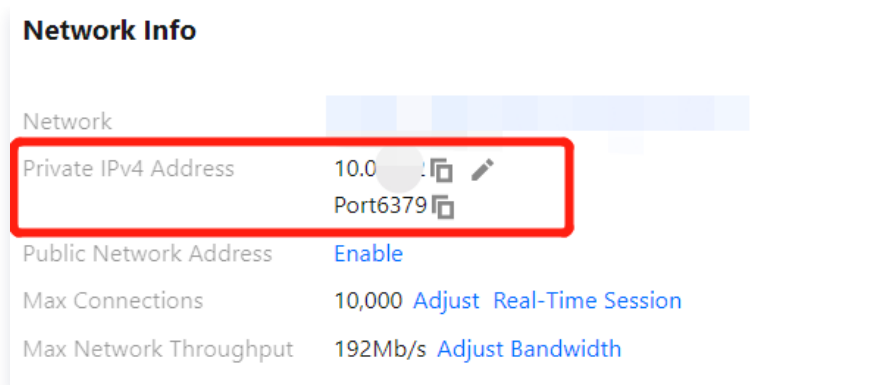
Step 2. Connect to the instance

- **Password-Free Authentication**

For instances set up for password-free authentication, use the following connection command:

```
redis-cli -h IP address -p port
```

The IP address and port refer to the **Private IPv4 Address** and port obtained from the **Network Information** section of the **Instance Details** page in the [Redis Console](#).



• Access with Default Account

The default account refers to the account assigned by the system by default. When you purchase and create a TencentDB for Redis® instance, the password you set to access the instance is the database password corresponding to the default account. To use the default account with a password to access the database, the following open-source connection command is supported:

```
redis-cli -h IP address -p port -a password
```

The IP address and port refer to the **Private IPv4 Address** and port obtained from the **Network Information** section on the **Instance Details** page of the [Redis Console](#). For instance, if the password you set is abcd1234, the connection command would be as follows:

```
redis-cli -h IP address -p port -a abcd1234
```

ⓘ Note:

To access instances purchased before January 2018, you need to replace the "password" with "instance ID: password", for example,

```
redis-cli -h IP address -p port -a crs-bkuza6i3:abcd1234 .
```

• Custom Account Access

If you use a [custom account](#) for connection, the authentication method is

`account name@password`, which serves as the password parameter for accessing Redis.

```
redis-cli -h IP address -p port -a account name@password
```

Connecting from a Windows CVM instance

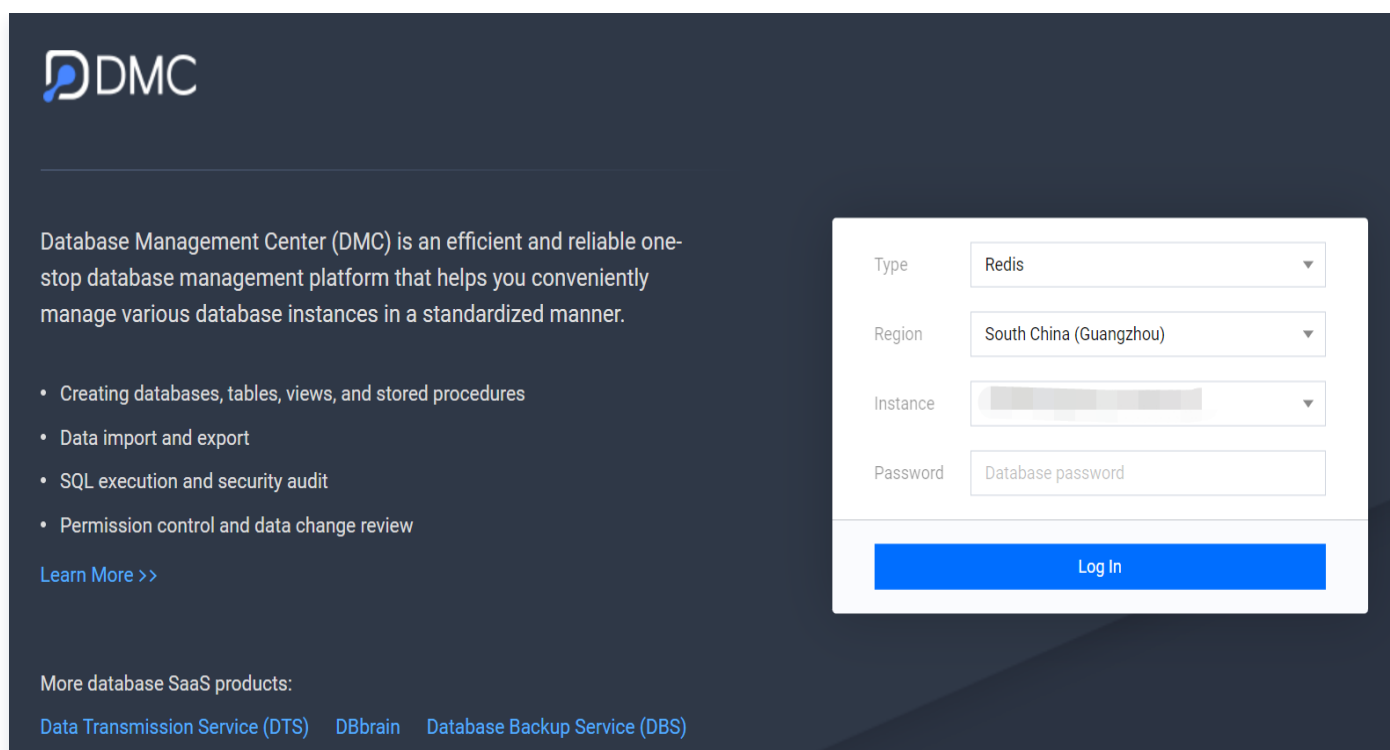
1. Configure and log in to the Windows CVM instance. For more information, see [Customizing Windows CVM Configurations](#).
2. In the Windows CVM instance, download the TencentDB for Redis® client over the internet and install it.
3. Open the TencentDB for Redis® client, configure the instance's private IP address, and click **Test Connection** to connect to the instance.

Parameter name	Description
Name	Name of the connection to the database instance.
Address	Enter the private IPv4 address of the database instance, which can be obtained in the Network Info section on the Instance Details page in the console.
Verification	Enter the password for database instance connection.

4. Click  and enter a Redis command in the input box in the bottom-right corner to run it.

Connection via DMC

1. Log in to the [TencentDB for Redis® console](#).
2. Above the instance list, select the region.
3. In the instance list, find the target instance.
4. In the **Operation** column, click **Log in**.
5. Navigate to the [DMC Console](#) login page, enter the default account password for the target instance, and click **Log In**.



6. On the **Database Management** page, under the instance information tab, you can view the monitoring information of the instance.
7. Click the **Command Line** tab and enter a Redis command in the input box at the bottom to run it, as shown in the example below.

实例信息

命令行

DB0 | 新建 list

DB12 | test

DB0 | 123

```
[ crs-██████ | DB0 ] # set test 123
OK
[ crs-██████ | DB0 ] # get test
123
[ crs-██████ | DB0 ] # set test 456
OK
[ crs-██████ | DB0 ] # mget test
1) "456"
[ crs-██████ | DB0 ] # set name redis
OK
[ crs-██████ | DB0 ] # mget test name
1) "456"
2) "redis"
```

```
set class 2
```

执行

清空面板

主题

classic ▼

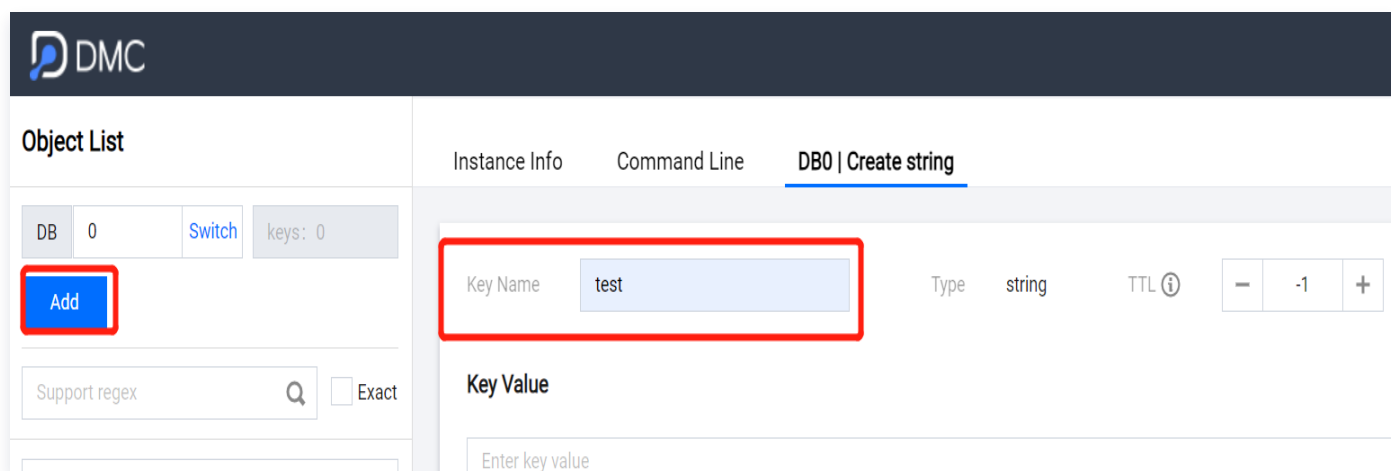
字号

小 ▼

快捷键 ⓘ

8. If you are not familiar with Redis command parameters, you can select the Slot range and DB where the key-value is stored in the **Object List** section on the left side of the page. Click **New**, choose the data type of the key, and click **Confirm**. Edit the key name in the **Key Name** input box, click **Create Element and Key**, and in the **New Element** dialog box, enter

the corresponding key-value and click **Confirm**. The system will execute the command based on the set key and key-value information.



The screenshot shows the TencentDB for Redis console interface. On the left, the 'Object List' section has a table with columns 'DB' and 'keys'. The 'DB' column shows '0' and the 'keys' column shows '0'. Below the table is a search bar with 'Support regex' and 'Exact' options. A red box highlights the 'Add' button. On the right, the 'DB0 | Create string' tab is active. It shows a 'Key Name' field with the value 'test', a 'Type' dropdown set to 'string', and a 'TTL' dropdown set to '-1'. A red box highlights the 'Key Name' field. Below these fields is a 'Key Value' section with a text input field labeled 'Enter key value'.

Connecting Multi-Language SDKs

TencentDB for Redis® supports access via multi-language SDKs for various programming languages, including PHP, Java, Node.js, Python, C, Go, and .Net. For specific examples, please see [Connecting Multi-Language SDKs](#). Follow the examples to download the corresponding SDK client and configure the private IP, port number, instance ID, and password of the Redis instance in the code to connect to the database.

FAQs

- If the connection fails, please see [Redis Instance Connection Failure](#) for troubleshooting steps.
- For more common questions, please see [Connection and Login Issues](#).