

TencentDB for Redis

Getting Started

Product Documentation



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Getting Started

Creating TencentDB for Redis Instance

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Overview

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

Prerequisites

- You have registered a Tencent Cloud account and completed identity verification.

- To register a Tencent Cloud account:

[Click here to sign up for a Tencent Cloud account](#)

- To verify your identity:

[Click here to verify your identity](#)

- You have determined a region and AZ for the instance. For more information, see [Regions and AZs](#).
- You have determined the specification and performance requirements of the instance. For more information, see [Memory Edition \(Standard Architecture\)](#) and [Performance](#).
- You have determined a VPC and security group for the instance. For more information, see [Virtual Private Cloud](#) and [Configuring 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 [read/write separation](#) is implemented first.
- You have checked out the billing details of the instance. For more information, 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.

Directions

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	Description
Billing Mode	Pay-as-you-go is supported. For more information, see Billing Overview .
Region	Select a region where your instance resides. You should select a region closest to you to reduce access latency. <ul style="list-style-type: none"> Note that the region cannot be changed after the instance is successfully created. We recommend you select the same region as the CVM instance for private network communication.
Instance Edition	Select the Memory Edition . The CKV Edition is unavailable currently.
Compatible Version	Select a high-performance version based on the open-source Redis engine, which is compatible with Redis 6.0, 5.0, 4.0, and 2.8. v2.8 is unavailable currently, and v4.0 or later is recommended. To purchase an instance of Redis 2.8 or 6.0, submit a ticket for application.
Architecture	v4.0 or later supports the standard architecture and cluster architecture, while v2.8 only supports the standard architecture. For more information on the product architecture, see Memory Edition (Standard Architecture) and Memory Edition (Cluster Architecture) .
Memory	Configure the required memory size (0.25–64 GB) if you select Standard Architecture for Architecture .
Replica Quantity	Select the number of database replicas. Multiple replicas can provide master/replica high availability, thus improving the data security. Replicas can also be used to enhance the read-only performance. The replica quantity may vary by region or edition as configured in the console by default.
Shard Quantity	Set the number of shards as needed if you select Cluster Architecture for Architecture . The more the shards, the larger the cluster storage capacity.
Shard Capacity	Set the capacity of each shard if you select Cluster Architecture for Architecture .
Specs 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	Specify whether to enable read/write separation. For more information, see Read/Write Separation .
Network	Both VPC and classic network are supported. <ul style="list-style-type: none"> If you select VPC, only devices in the selected subnet can access the database instance. If you select the classic network, only devices in the selected classic network can access the

	<p>database instance, and public network address and multi-AZ deployment are not supported. For more information, see Classic Network.</p> <ul style="list-style-type: none"> After the instance is created, you can switch the network from the classic network to VPC or from one VPC to another VPC but not from VPC to the classic network. For detailed directions, see Configuring Network.
AZ	<p>Specify whether to enable multi-AZ deployment. Both single-AZ deployment and multi-AZ deployment are supported. A multi-AZ deployed instance has higher availability and disaster recovery capabilities than a single-AZ deployed instance. For more information, see Multi-AZ Deployment.</p> <ul style="list-style-type: none"> For single-AZ deployment, select an AZ for the master node from Master Node Group (Master AZ). For multi-AZ deployment, select a master AZ from the drop-down list of Master Node Group (Master AZ) and specify an AZ for the replica from the drop-down list of replica x, where x is the replica number, such as replica 1 and replica 2.
IPv4 Network	<p>Network: Select VPC. You should select a specific VPC and subnet, preferably the same VPC in the same region as the CVM instance. 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. You can switch the VPC after instance purchase as instructed in Configuring Network. You can also click Create VPCs and Create Subnets to create a required network environment as instructed in Creating VPCs.</p>
Port	Custom port. The default port is 6379. Value range: 1024–65535.
Parameter Template	Apply a parameter template to configure parameters in batches for the instance. For more information, see Applying Parameter Templates .
Project	Assign your instance to a project for easy management.
Tag	Add tags to your instance for easy classification and management. Click Add to select tag keys and values.
Security Group	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 inbound rules . For more information, see Configuring Security Group .
Instance Name	Enter up to 60 letters, digits, hyphens, and underscores.
Set Password	Password Authentication is selected by default.
Password	Set an access password for the instance, which must meet the following requirements:

	<ul style="list-style-type: none">It must contain 8–30 characters.It must contain characters in at least two of the following character types: lowercase letters, uppercase letters, digits, and special symbols (() ^ ~ ! @ # \$ % ^ & * - + = _ { } [] ; < > , . ? /).It cannot start with a slash (/).
Confirm Password	Enter the access password for the instance again.
Quantity	You can purchase up to 100 instances in each region and up to 30 instances each time.

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

Subsequent Operations

Use a CVM instance to directly access the private IP of the TencentDB instance. For more information, see [Connecting to TencentDB for Redis Instance \(over Private Network\)](#).

Related Operations

Changing instance specification

You can elastically adjust the specification of your TencentDB for Redis instance based on your actual business needs to optimize resource utilization and costs in real time. For detailed directions, see [Changing Instance Specification](#).


Assigning instance to project

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

Editing instance tag

You can edit the tag key and value assigned to an instance. For detailed directions, see [Editing Instance Tag](#).

Renaming instance

If the current instance name is difficult to identify and makes instance management inconvenient, you can click  in the **Instance ID/Name** column in 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 forgot or want to change the default account password, you can directly reset it. For detailed directions, see [Resetting 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](#).

Payment overdue

After activating TencentDB for Redis, make sure that your account balance is sufficient. An insufficient balance may cause overdue payments or even instance repossession. For more information, see [Payment Overdue](#).

Related APIs

API	Description
CreateInstances	Creates TencentDB for Redis instance
ModifyInstance	Modifies instance information

Connecting to TencentDB for Redis Instance

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Overview

This document describes three methods for connecting to a database. After an instance is created and the status is **Running**, you can access it and run Redis commands for read, write, and query.

- Connection via client: You can connect to a TencentDB instance at its automatically assigned private address from a Windows or Linux CVM instance. This connection method utilizes the high-speed private network of Tencent Cloud and features low delay. Both instances should be under the same account and reside in the same **VPC** in the same region or reside in the classic network.

Note :

- CVM and TencentDB instances in different VPCs (under the same or different accounts in the same or different regions) can be interconnected over private network through [Cloud Connect Network](#).
- 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.
- Connection via SDK: You can connect to a TencentDB for Redis instance by configuring its private IP, port, instance ID, and password in the SDK for the corresponding programming language. Then, you can manipulate it, get and set its key, and do more.

Preparations

- Prepare a TencentDB for Redis instance. For more information, see [Creating TencentDB for Redis Instance](#).
- Prepare a database account and password. For more information, see [Managing Account](#). You can use 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](#).
- Obtain the **Private IPv4 Address** for database connection in the **Network Info** section on the **Instance Details** page in the [TencentDB for Redis console](#).

Connecting via Client Tool

Connecting from Linux CVM instance

Step 1. Prepare the environment

1. Log in to the Linux CVM instance. For more information, see [Customizing Linux CVM Configurations](#).
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 an instance

- **Passwordless authentication**

If your instance is passwordless, the connection command is as follows:

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

Here, the IP address and port are the **Private IPv4 Address** and **Port** obtained in the **Network Info** section on the **Instance Details** page in the [TencentDB for Redis console](#).

- **Access with 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
```

Here, the IP address and port are the **Private IPv4 Address** and **Port** obtained in the **Network Info** section on the **Instance Details** page in the [TencentDB for Redis console](#).

For example, if the password you set is `abcd1234`, the connection command should 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".

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

- **Access with custom account**


If you use a [custom account](#) for connection, the `account name@password` password parameter will be authenticated for accessing TencentDB for Redis:

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

Connecting from 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	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. Click **Log In** in the **Operation** column.
5. You will be redirected to the login page of the [DMC console](#). Enter the default account password of the target instance and click **Log In**.

6. You can view the instance monitoring information on the **Instance Info** tab on the **Database Management** page.
7. Click the **Command Line** tab and enter a Redis command in the input box at the bottom to run it as shown below:
8. If you are unfamiliar with Redis command parameters, you can select the slot range and database for storing key values in the **Object List** section on the left of the page, click **Create**, select the key data type, click **OK**, edit the key name in the **Key Name** input box, and click **Add element and create key**. Then, enter the corresponding key value and click **OK** in the **Add Element** window. The system will run commands based on the set key and key value.

Connection via SDK

TencentDB for Redis can be accessed via SDKs for various programming languages, including PHP, Java, Node.js, Python, C, Go, and .NET. For specific samples, see [PHP Connection Example](#). You can download an SDK client and then connect to a TencentDB for Redis instance by configuring its private IP, port, instance ID, and password as instructed in the sample code.

FAQs

For more FAQs, see [Connection and Login](#).