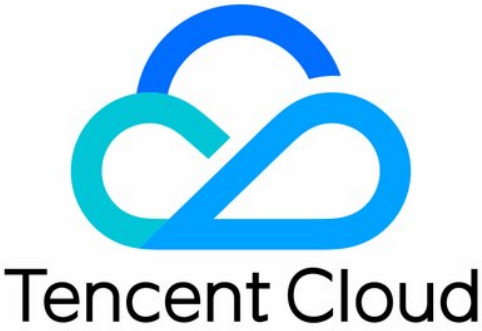
TencentDB for Redis®

Getting Started

Product Documentation



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Getting Started
Creating Redis Instance

Last updated：2024-11-05 11:20:42

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.
Click here to register a Tencent Cloud account
Click here to complete identity verification.
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 Groups for TencentDB.
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.
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	Required	Description
Billing Mode	Yes	**Pay-as-you-go** is supported. For more information, see Billing Overview.
Region	Yes	Select the region where the instance located, ensuring it matches the region of the CVM instance; otherwise, it cannot communicate directly via the private

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		network.
Instance Edition	Yes	Trial version, select it as needed. **Redis Edition**: A high-performance edition based on the open-source Redis engine. **Memcached Edition**: A high-performance edition designed specifically for high-speed caching scenes based on the Memcached protocol version 1.6.
Compatible Version	Yes	**Redis Edition**: Compatible with Redis 7.0, 6.2, 5.0, 4.0, and 2.8. For a quick experience, it is recommend to choose the 7.0 version. **Memcached version**, compatible with Memcached protocol version 1.6. **Memcached Edition**: Compatible with the Memcached protocol version 1.6.
Architecture	Yes	Select the product deployment architecture. **Redis Edition**: Select the standard architecture. **Memcached Edition**: Only the cluster architecture is supported.
Memory Capacity	Yes	Select the minimum capacity for the standard architecture to quickly experience.
Replica Quantity	Yes	Choose 1 (1 master, 1 replica).
Specs Preview	-	Preview the selected specification and the supported maximum number of connections and maximum network throughput to verify whether they meet your expectations.
Network	Yes	Currently, only **VPC** is supported.
AZ	Yes	Choose whether to enable multi-availability zone deployment; for a quick experience, this is not required.
IPv4 Network	Yes	Select the VPC and subnet. We recommend that you select the same VPC in the same region as the CVM instance to be connected to.
Port	Yes	Custom port number: keep the default settings. **Redis Memory Edition:** The default port number is 6379. **Tencent Cloud Memcached Edition:** The default port number is 11211.
Security Group	Yes	Set security group rules to control the inbound traffic to your database. 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. 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	Yes	Supports Chinese, letters, and digits with a length less than 60, including

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Name		hyphens (-) and underscores (_).
Setting password	Yes	Select the authentication method, and select the **Passwordless Authentication**.
Terms of Service	Yes	Click **Terms of Service** to fully understand the use of Cloud Database Service content, service fees, usage rules, intellectual property, and other related service terms. Click **Service Level Agreement** to understand the agreement that must be complied with when using TencentDB for Redis®. Check the box **I have read and agree to the Terms of Service 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.

Related Operations

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.

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Connecting to Redis Instance

Last updated：2024-12-27 22:21:11

Overview

This document describes three methods for connecting to a running instance. Then, you can run Redis commands to perform read, write, and query operations.

Connection via client: You can connect to a TencentDB instance at its automatically assigned private address from a Windows or Linux CVM instance based on the Redis client. 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 the 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 auto-assigned private IP address, 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.

Prerequisites

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 by Using Client Tool

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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 Customizing Linux CVM Configurations.
2. Taking a CVM instance on CentOS as an example, run the following command to install the Redis client.

```
yum install redis -y
```

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

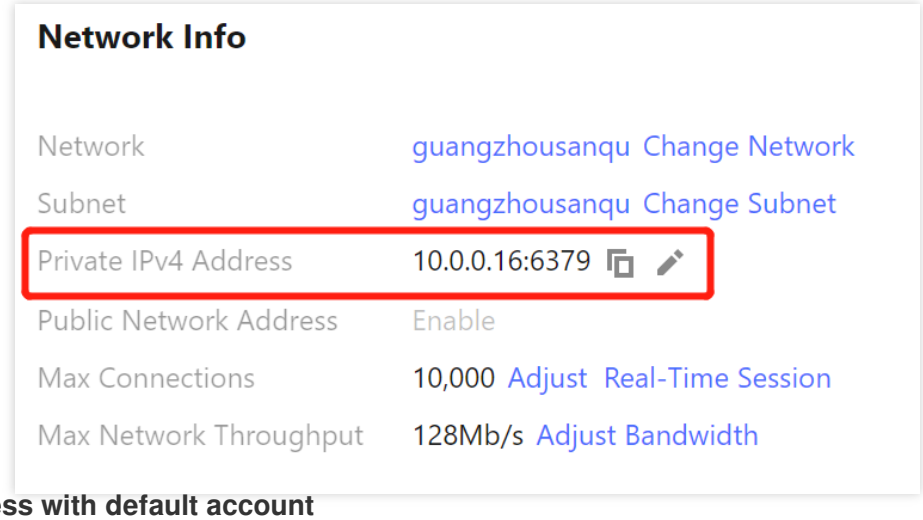
Step 2. Connect to an instance

Passwordless authentication

If your instance is password-free, 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

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
```

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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", for example, `redis-cli -h IP address -p port -a crs-bkuza6i3:abcd1234`.

Access with custom account

If you use a custom account as described in Managing Account when connecting, then the authentication method of the custom account is `account name@password`, which acts as the password parameter for accessing TencentDB for 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	Description
Name	The 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.

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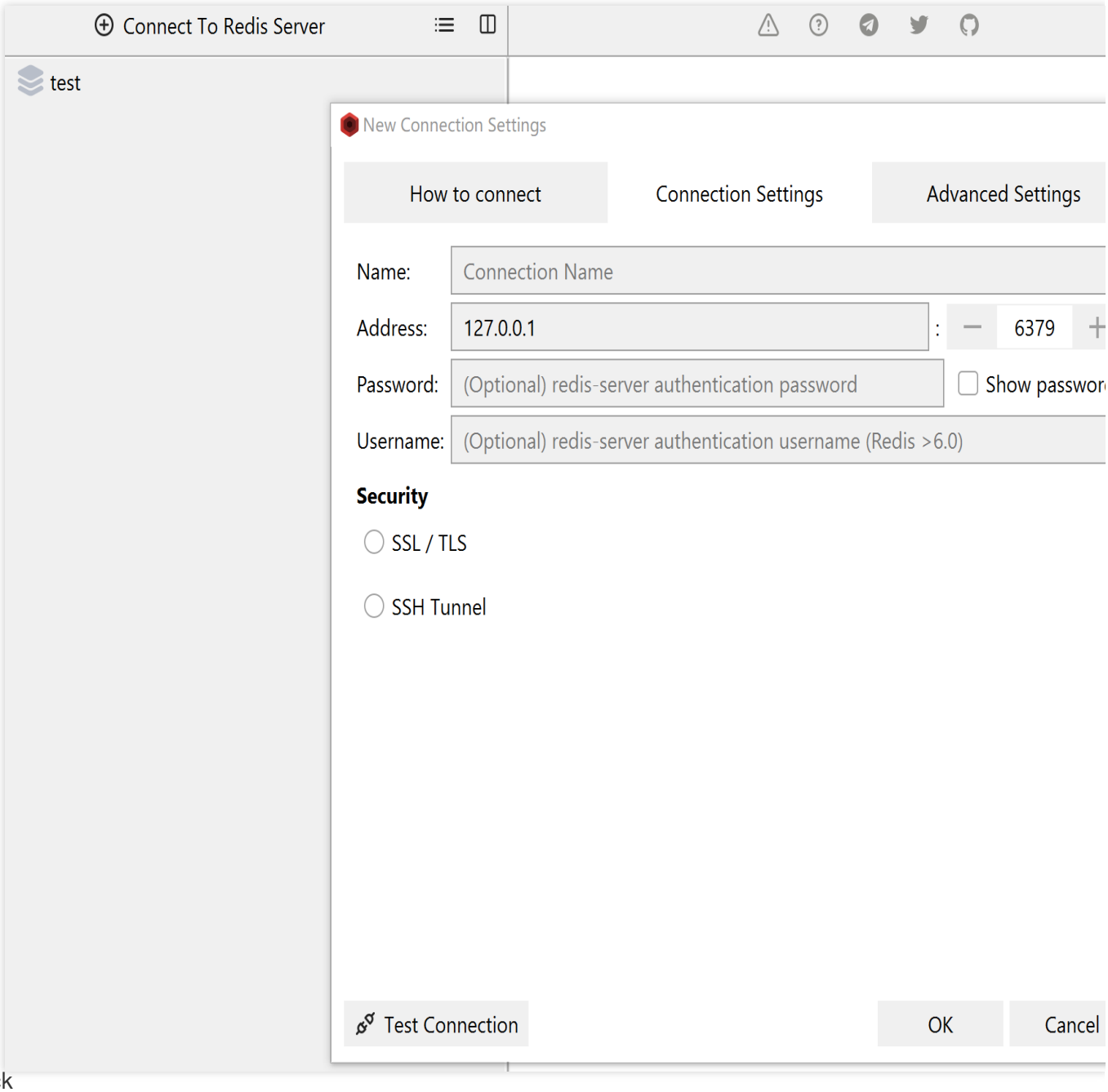

4. Click

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.

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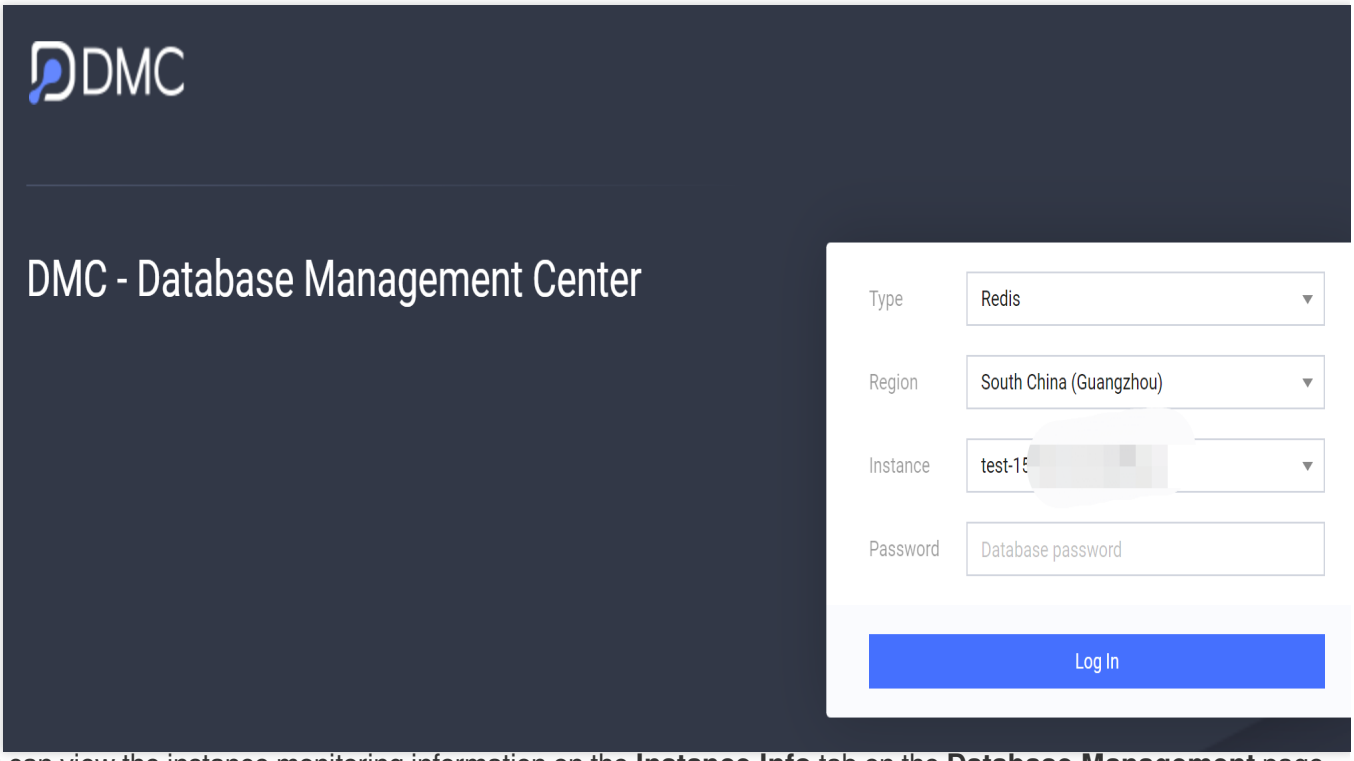
5. You will be redirected to the login page of DMC. Enter the default account password of the target instance and click **Log In**.



6. You can view the instance monitoring information on the **Instance Info** tab on the **Database Management** page.

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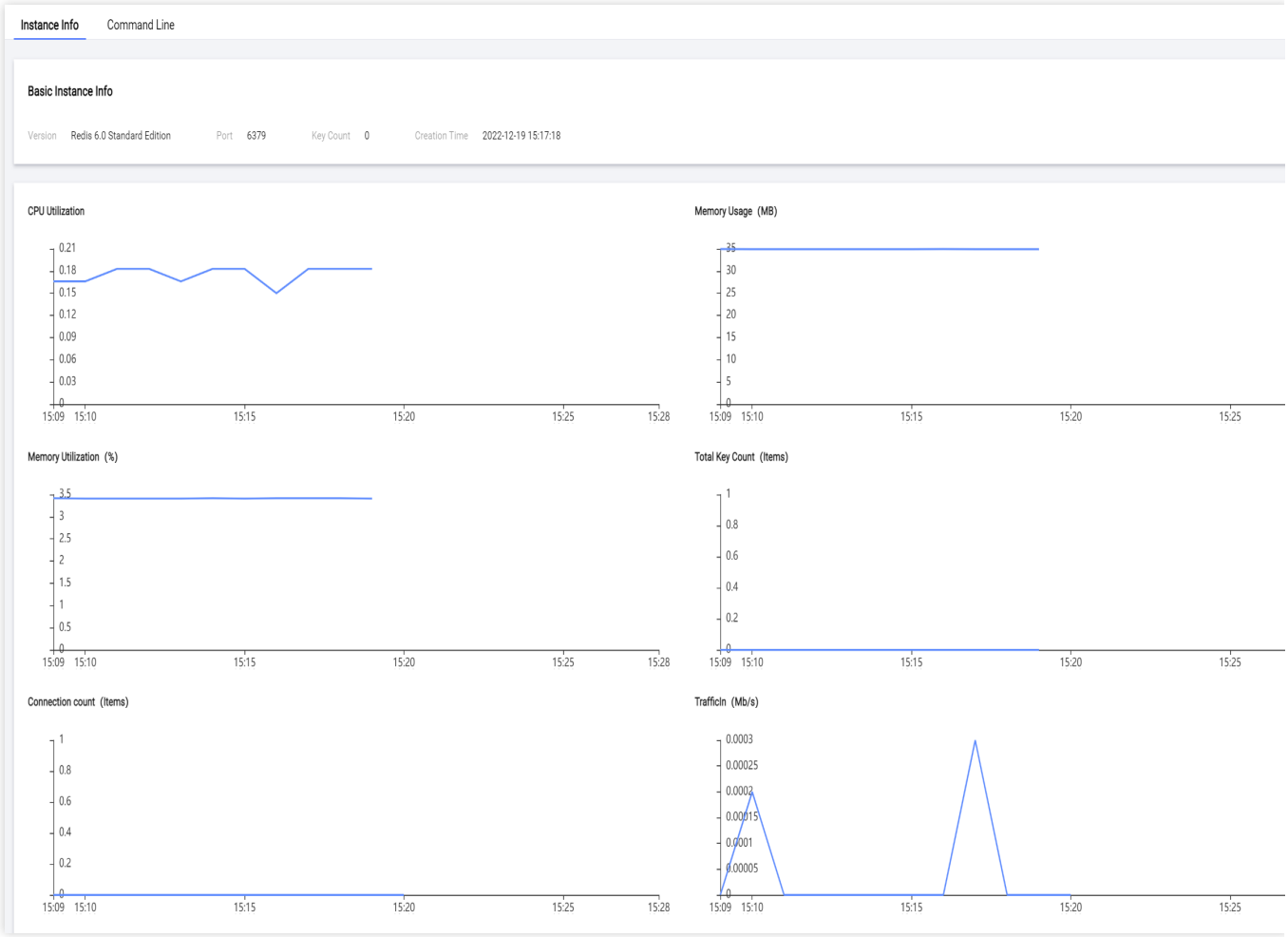

7. Click the **Command Line** tab and enter a Redis command in the input box at the bottom to run it:

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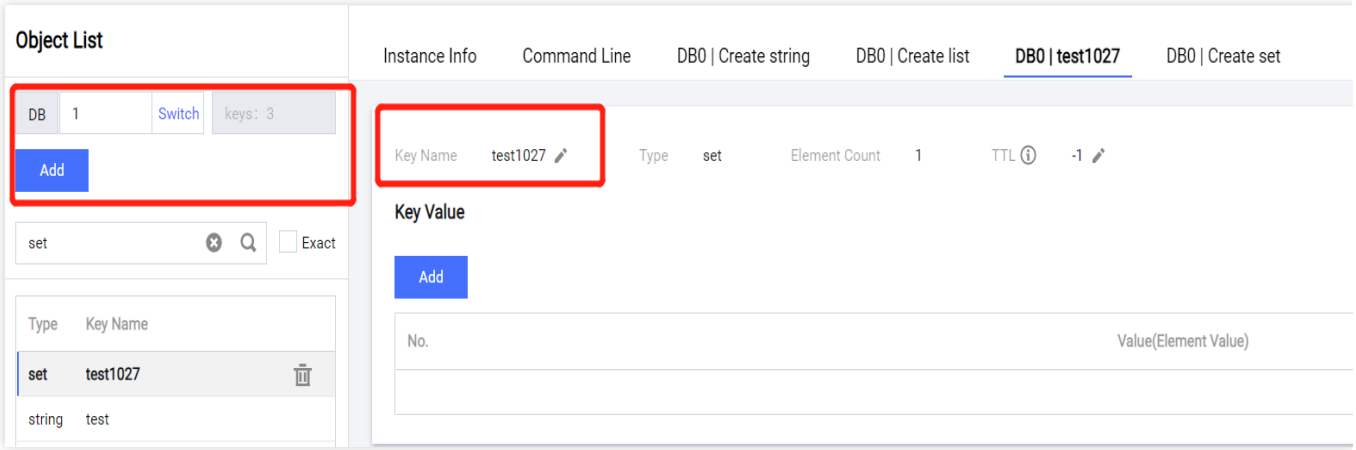
8. If you are unfamiliar with Redis command parameters, you can select the slot range and database for storing key values in the **Object List** section on the left of the page, click **Create**, select the key data type, click **OK**, edit the key name in the **Key Name** input box, and click **Add 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 Sample. 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.

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FAQs

If the connection failed, see Redis Instance Connection Failure for troubleshooting one by one.

For more FAQs, see Connection and Login.

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