TencentDB for Redis

Getting Started

Product Documentation

Contents

Getting Started
Creating TencentDB for Redis Instance

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Overview

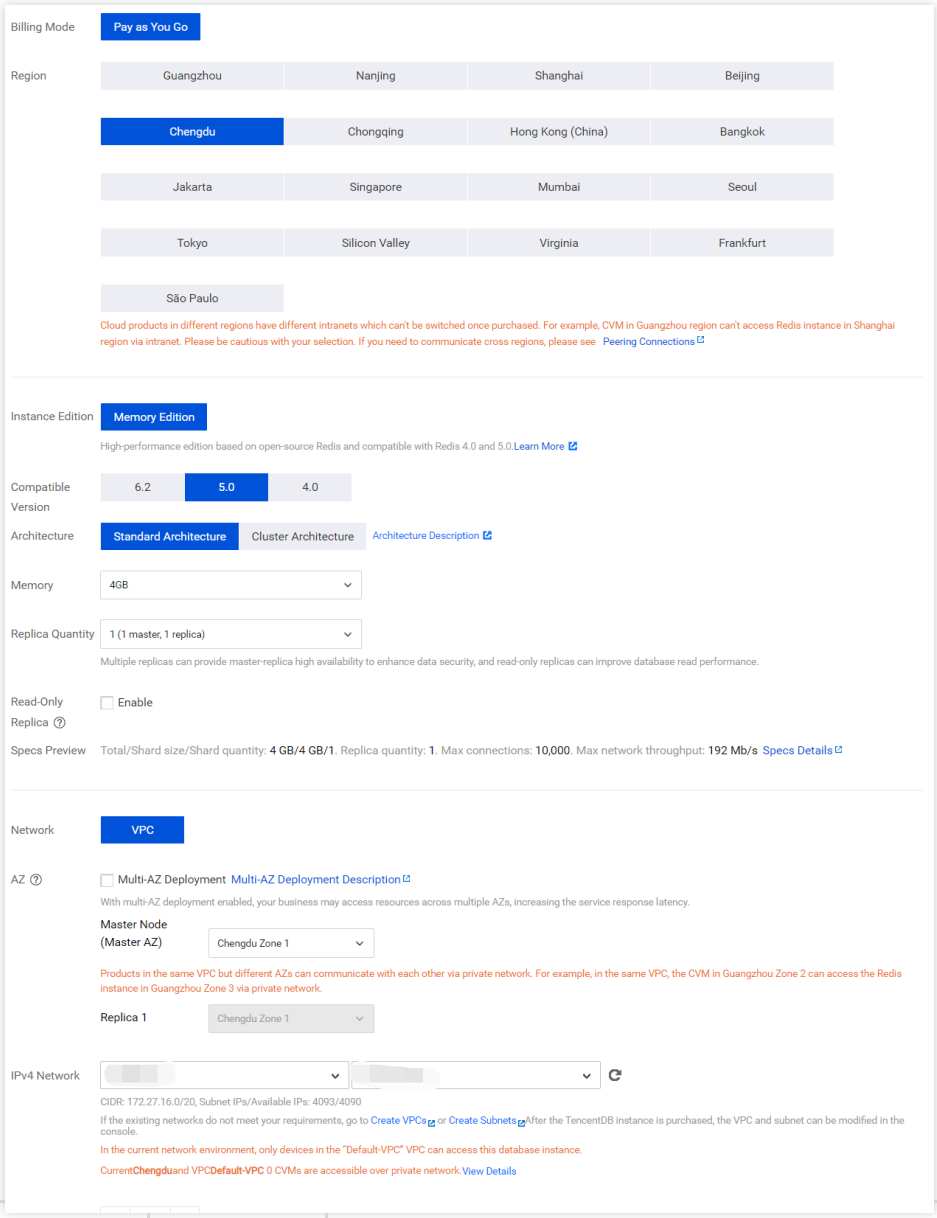
This document describes how to purchase and configure a TencentDB for Redis instance.

Prerequisites

You have registered a Tencent Cloud account and completed identity verification.
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 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 Creating Intra-account Peering Connection.

Instance Edition	Yes	Select **Memory Edition**, a high-performance edition based on the open-source Redis engine. The CKV Edition is unavailable currently.
Compatible Version	Yes	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 currently, and v4.0 or later is recommended. To purchase v2.8, submit a ticket.
Architecture	Yes	Select a product deployment architecture. For more information, see Memory Edition (Standard Architecture) and Memory Edition (Cluster Architecture). v4.0 or later supports the standard architecture and cluster architecture. v2.8 only supports the standard architecture.
Memory Capacity	Yes	Configure the required memory size (256 MB–64 GB) if you select **Standard Architecture** for **Architecture**.
Replica Quantity	Yes	Select the number of database replicas. Multiple replicas provide master-replica high availability, enhancing 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	Yes	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	Yes	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	No	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	Yes	Currently, only **VPC** is supported.
AZ	Yes	Choose whether to enable multi-AZ deployment. Both single-AZ deployment and multi-AZ deployment are supported. Multi-AZ deployed instances have higher availability and better disaster recovery capability than single-AZ deployed instances. For more information, see Multi-AZ Deployment. If the master node is deployed in a single AZ, specify an AZ for it.

		If the master node 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	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. 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 the desired network environment as instructed in Creating VPC.
Port	Yes	Customize the port number, which is 6379 by default and ranges from 1024 to 65535. You can modify it after the purchase.
Parameter Template	Yes	Select the parameter template associated with the instance. The system automatically matches the appropriate default template based on the selected compatible version and architecture to configure parameters for the instance in batches. If you want to create your own template, click **Create Parameter Template**.
Project	Yes	Assign the instance to a project in the drop-down list for easy management. The default project is **Default Project**. You can also click **Create Project** to enter the **Project Management** page and customize the project name to manage your Tencent Cloud resources.
Tag	No	Add tags to your instance for easy classification and management. Click **Add** to select tag keys and values.
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.
Alarm Policy	Yes	Choose an alarm policy for the monitoring metrics. If you don't select an alarm policy, TencentDB for Redis provides a default alarm policy, allowing you to view the default policies on the alarm management page of Tencent Cloud Observability Platform. Select a custom alarm policy. Pre-log in to the alarm management page of Tencent Cloud Observability Platform to configure the alarm policy. For specific operations, see Creating Alarm Policy.

Instance Name	Yes	Supports Chinese, letters, and digits with a length less than 60, including hyphens (-) and underscores (_).
Setting password	Yes	Select the password authentication method, supporting the choice between **Password Authentication** and **Passwordless Authentication**. The default is **password authentication**.
password	No	When **Setting Password** is selected as **Password Authentication,** you must set an access password for the instance. The password complexity requirements are: The character count must be [8,30]. It must include at least two of the following: lowercase letters, uppercase letters, numbers, and special characters ()`~!@#$%^&*-+=_|{}[]:;<>,.?/ . It cannot start with /.
Confirming Password	No	Enter the instance access password again.
Purchase Quantity	Yes	Pay-as-you-go purchases are limited to a maximum quantity of 30 per transaction, with a purchase quantity range of [1,100] for each region.
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 MongoDB Instance.

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.

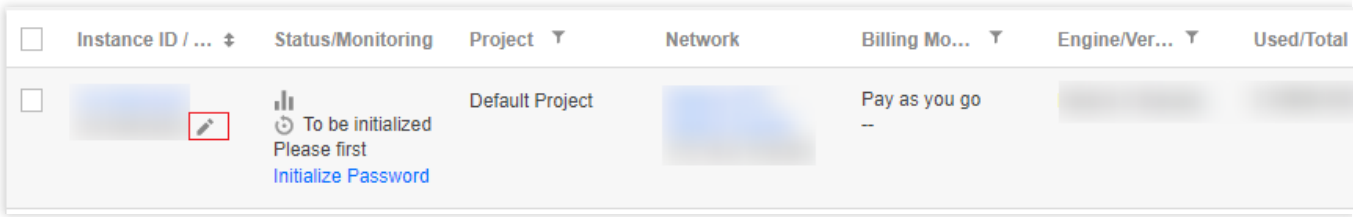
Editing instance tag

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 easy to identify and manage, you can reset it by clicking

in the **Instance ID/Name** column in the **Instance List**.



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 Name	Description

CreateInstances	Creates a TencentDB for Redis instance
ModifyInstance	Modifies the information of an instance

Connecting to TencentDB for Redis Instance

Last updated：2023-03-14 15:51:56

Overview

This document describes three methods for connecting to a running instance. Then, you can 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.

Notes

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 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 Using a Client Tool

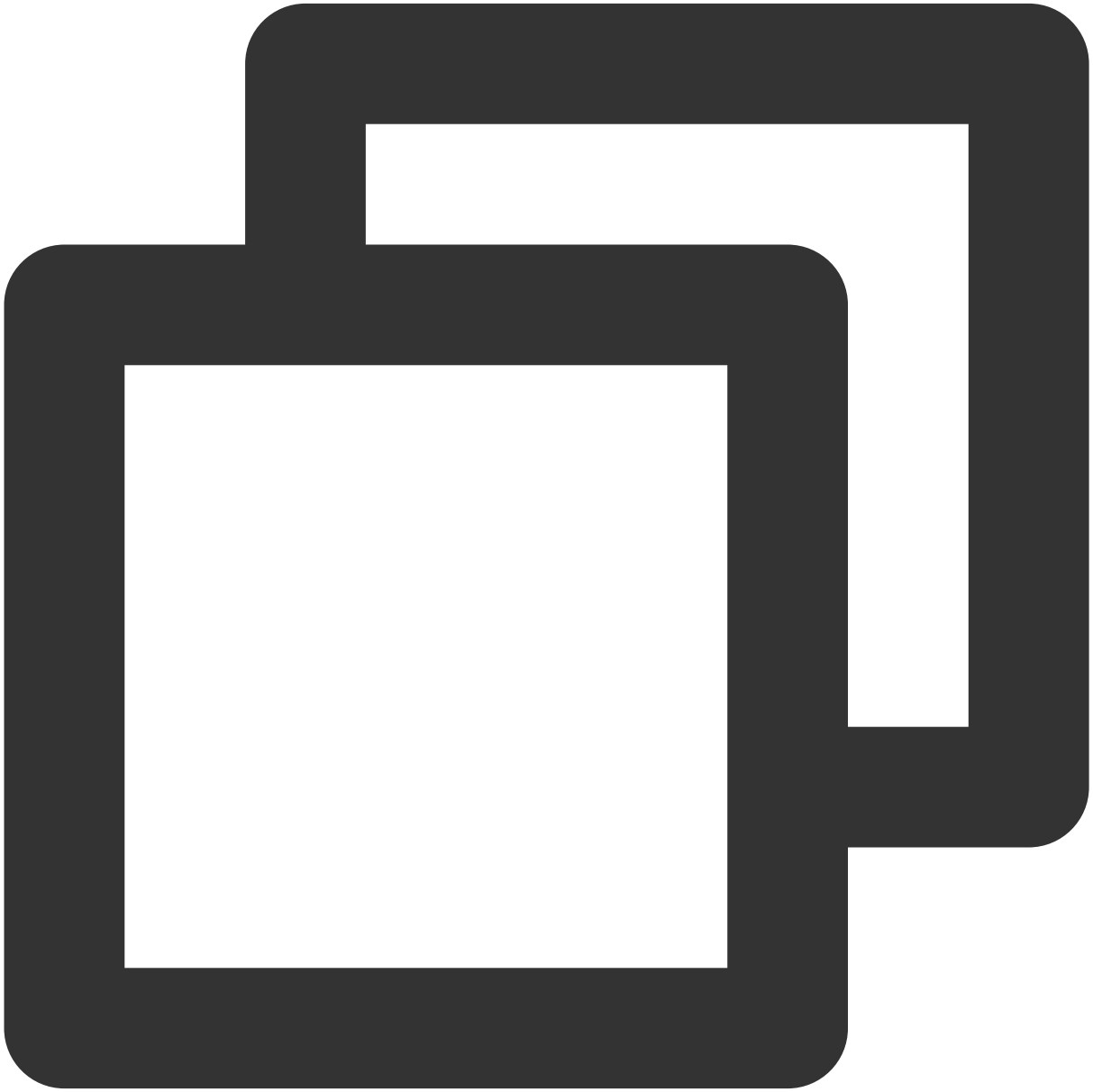
Notes:

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.



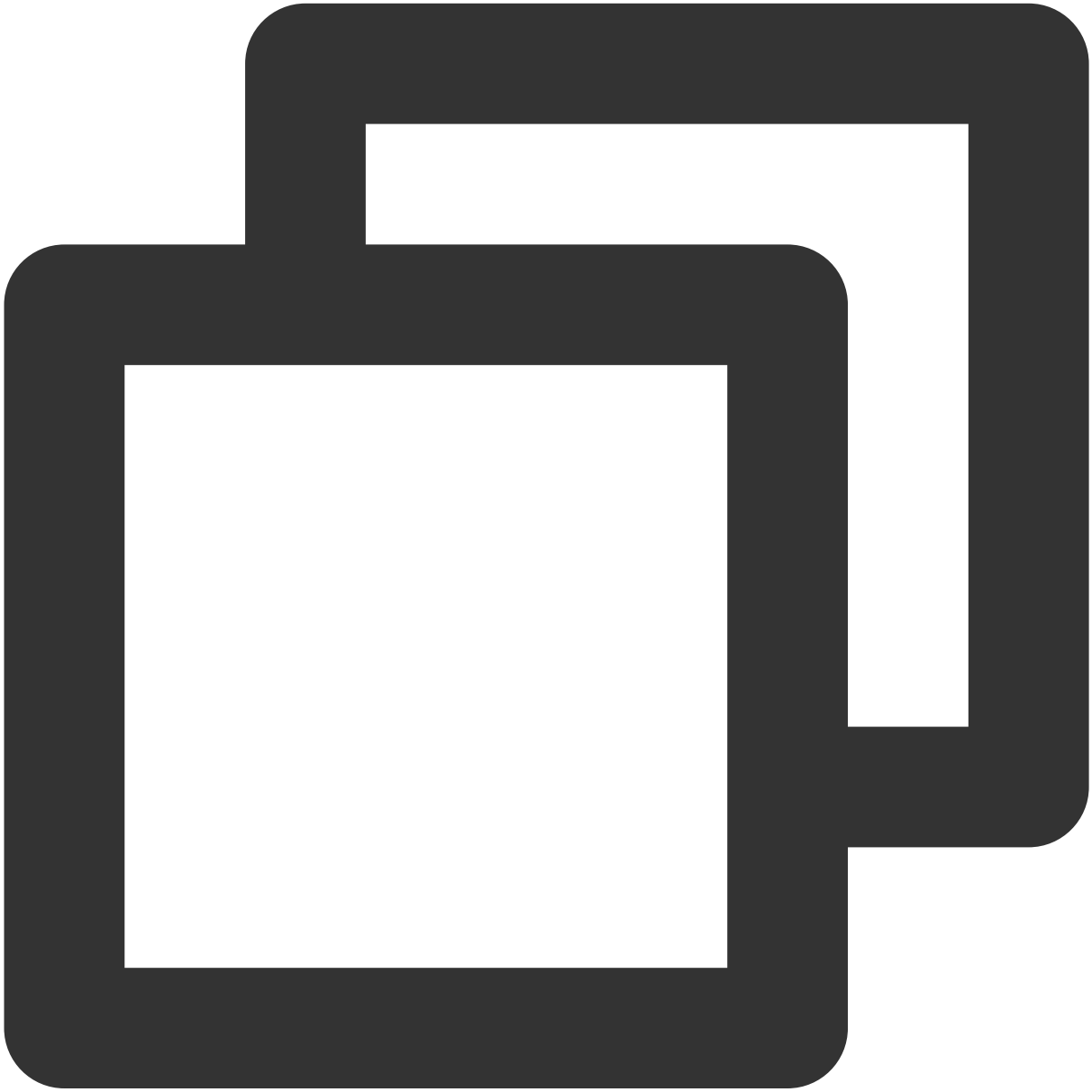
```
yum install redis -y
```

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

Step 2. Connect to an instance

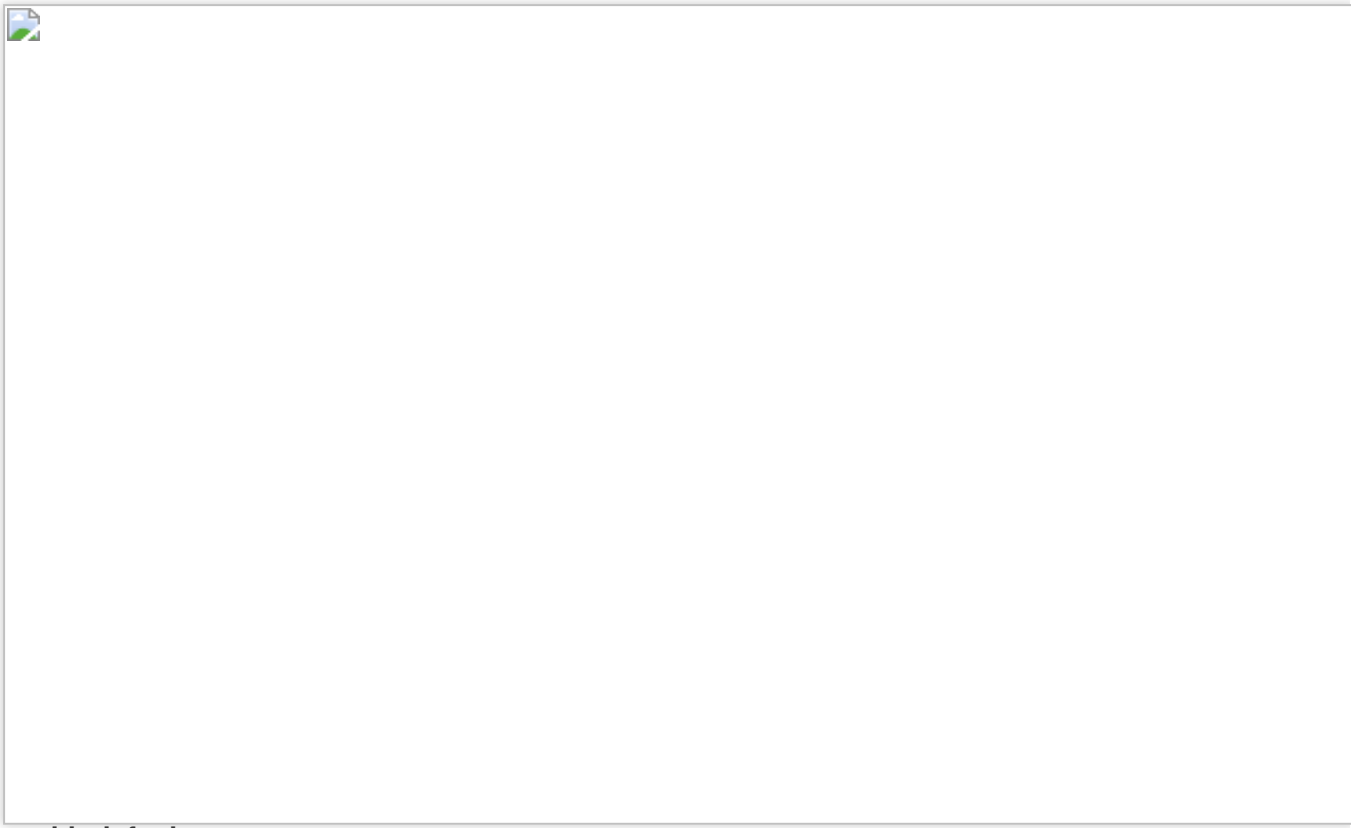
Passwordless authentication

If your instance is password-free, the connection command is as follows:



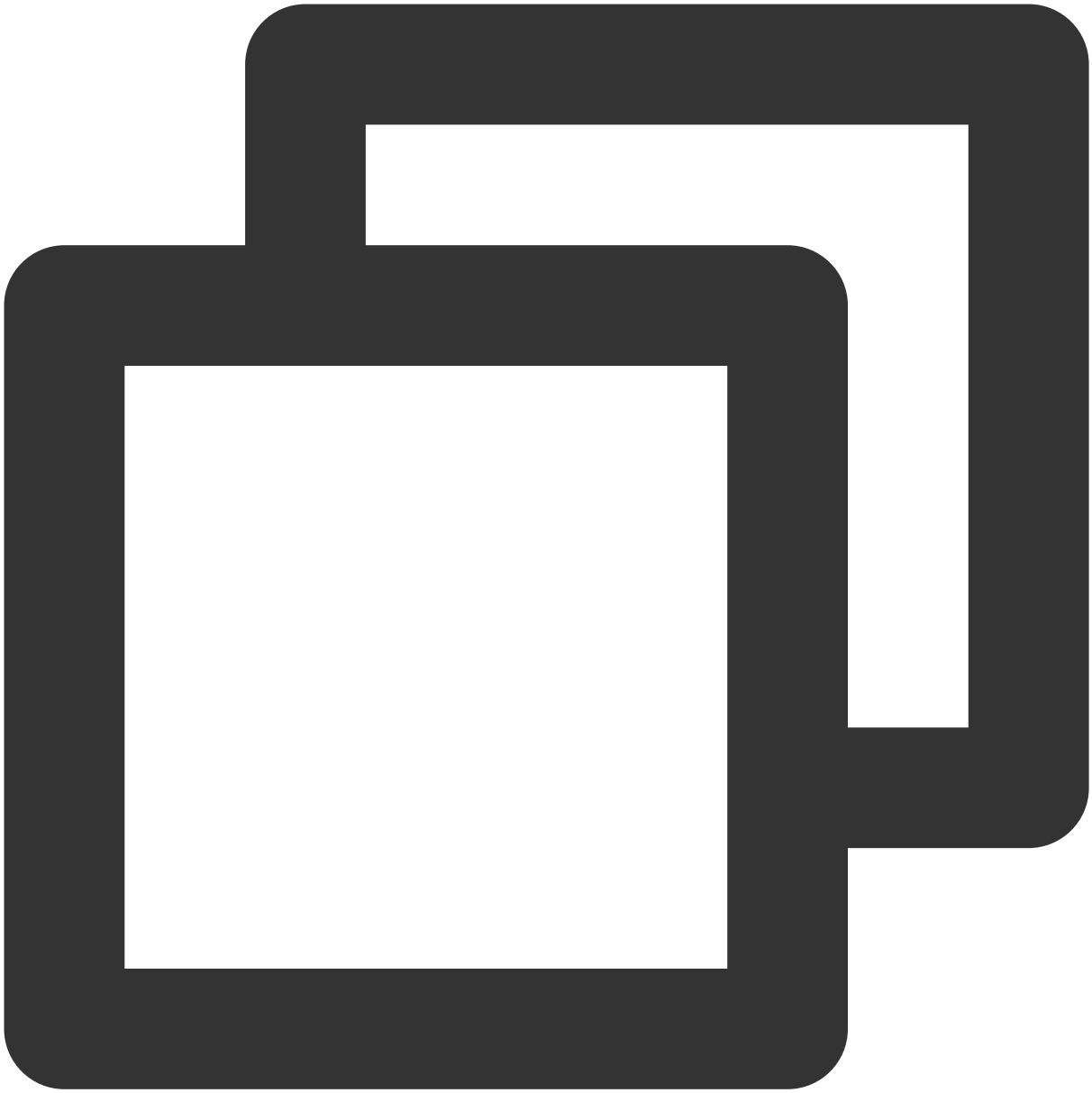
```
redis-cli -h IP address -p port
```

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.



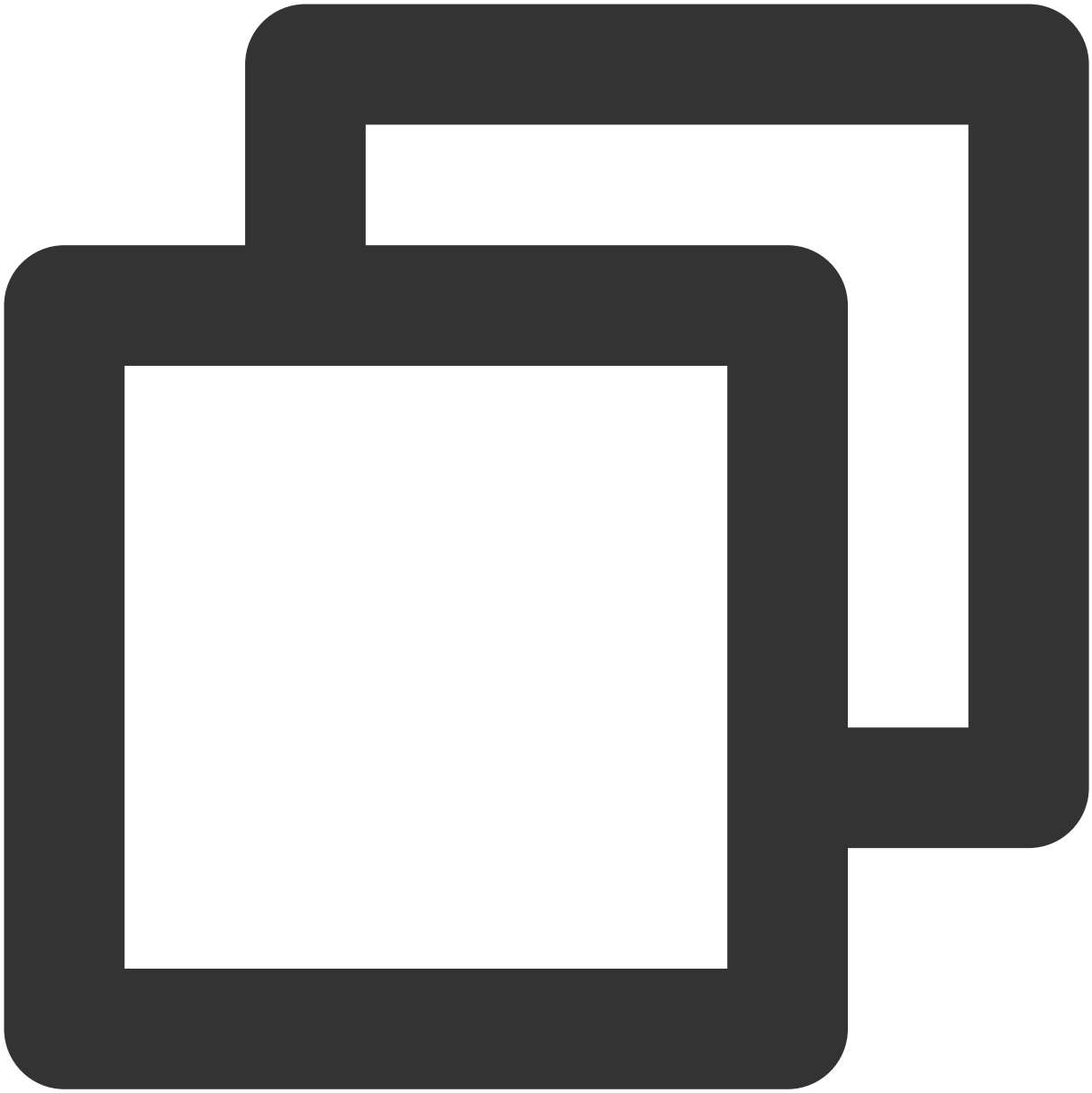
Access with default account

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
```

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:



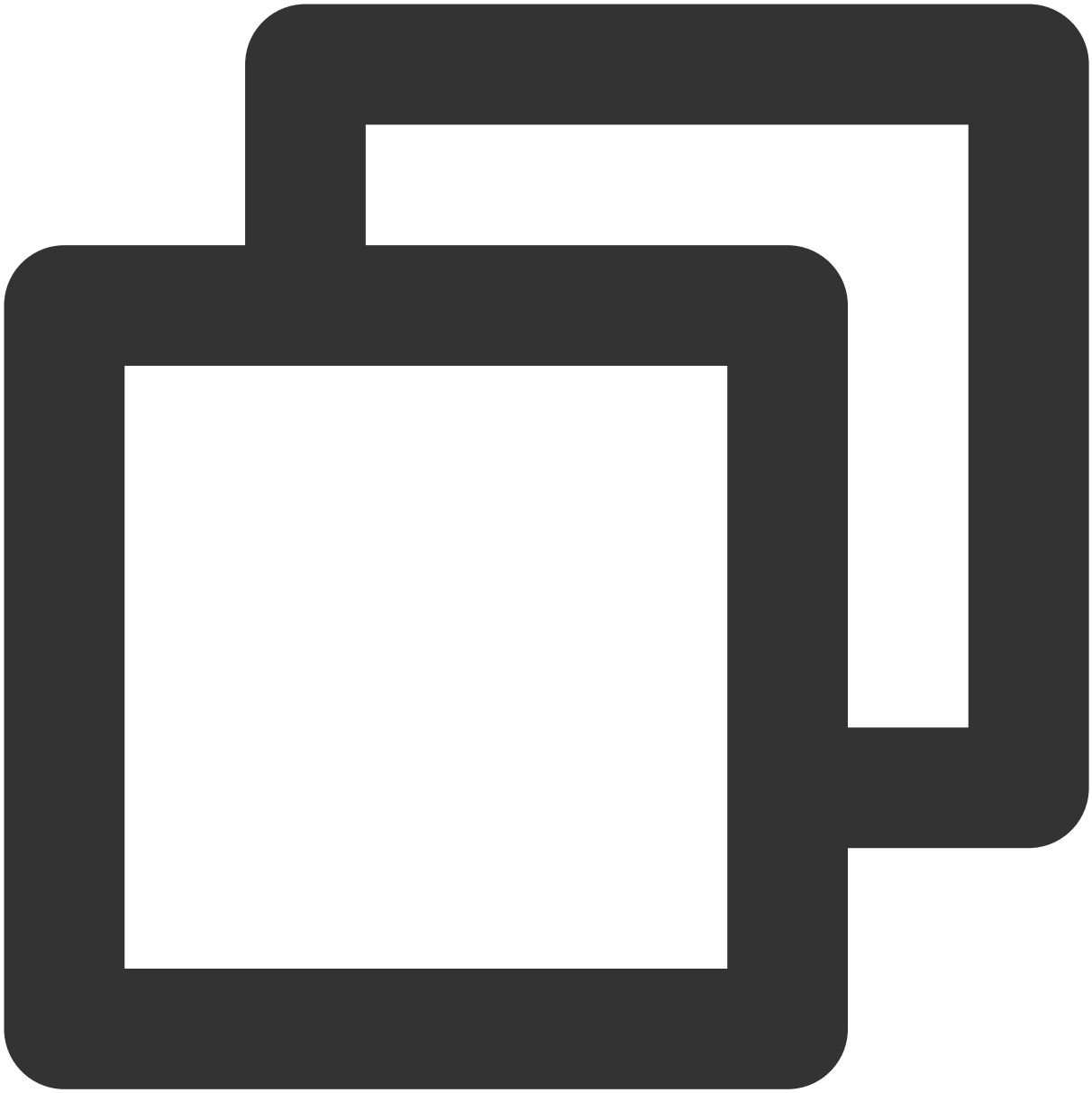
```
redis-cli -h IP address -p port -a abcd1234
```

Notes

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:

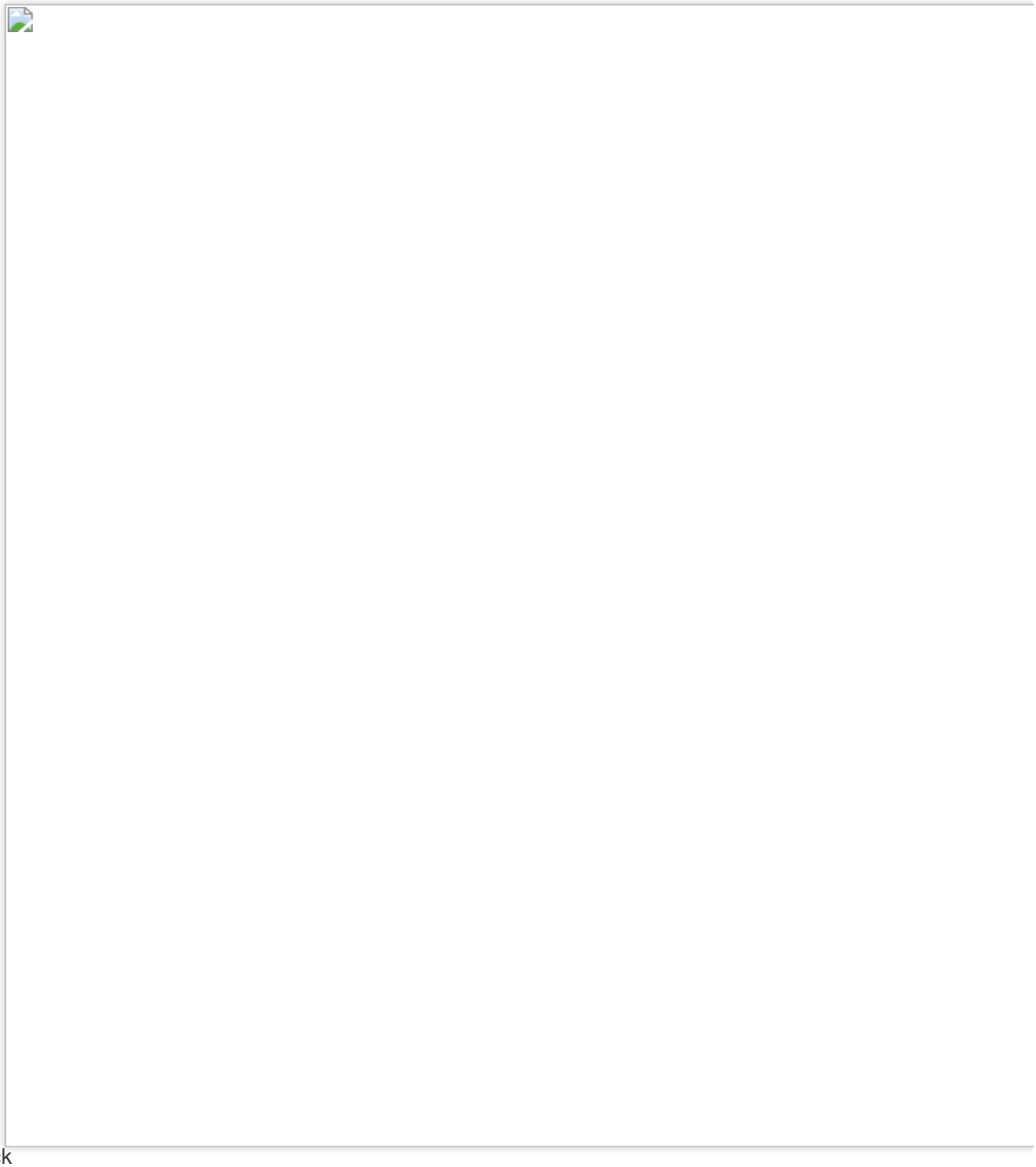


```
redis-cli -h IP address -p port -a account name@password
```

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.

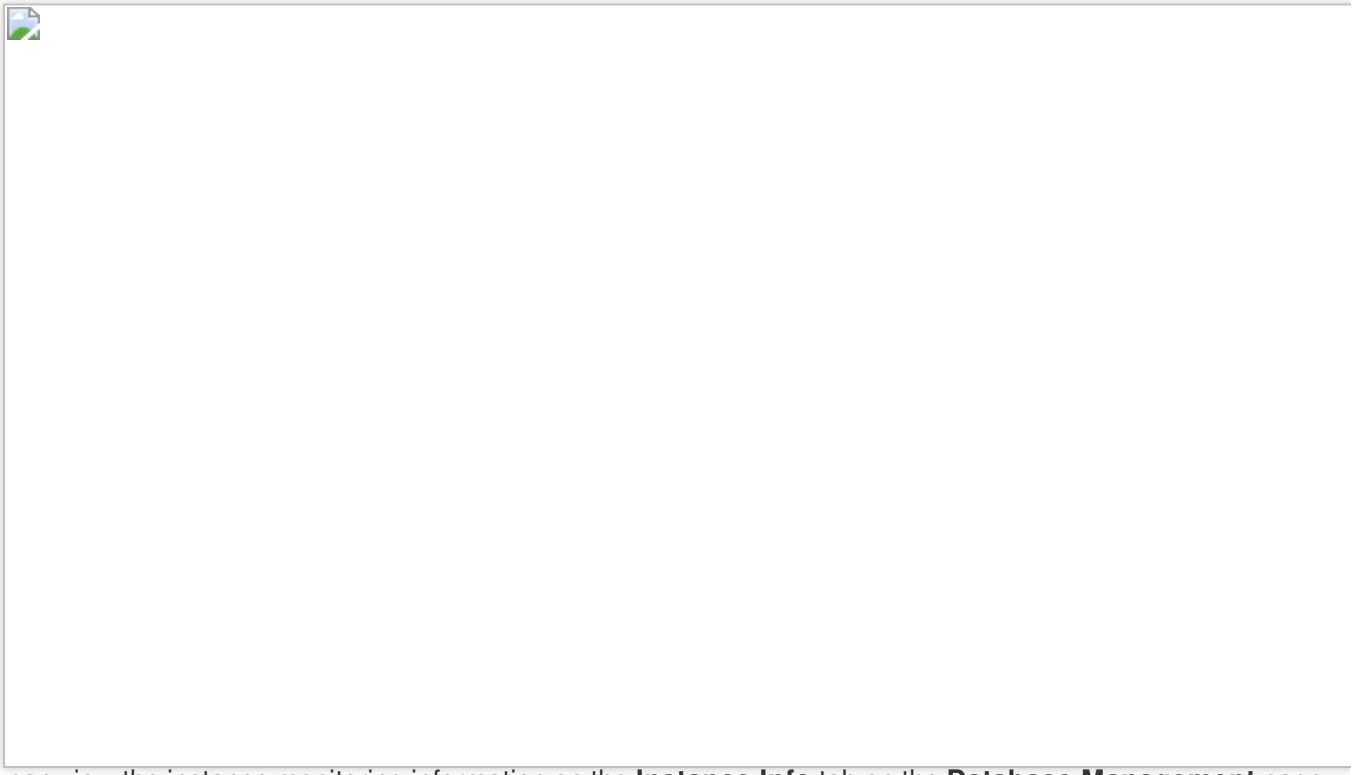


4. Click

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

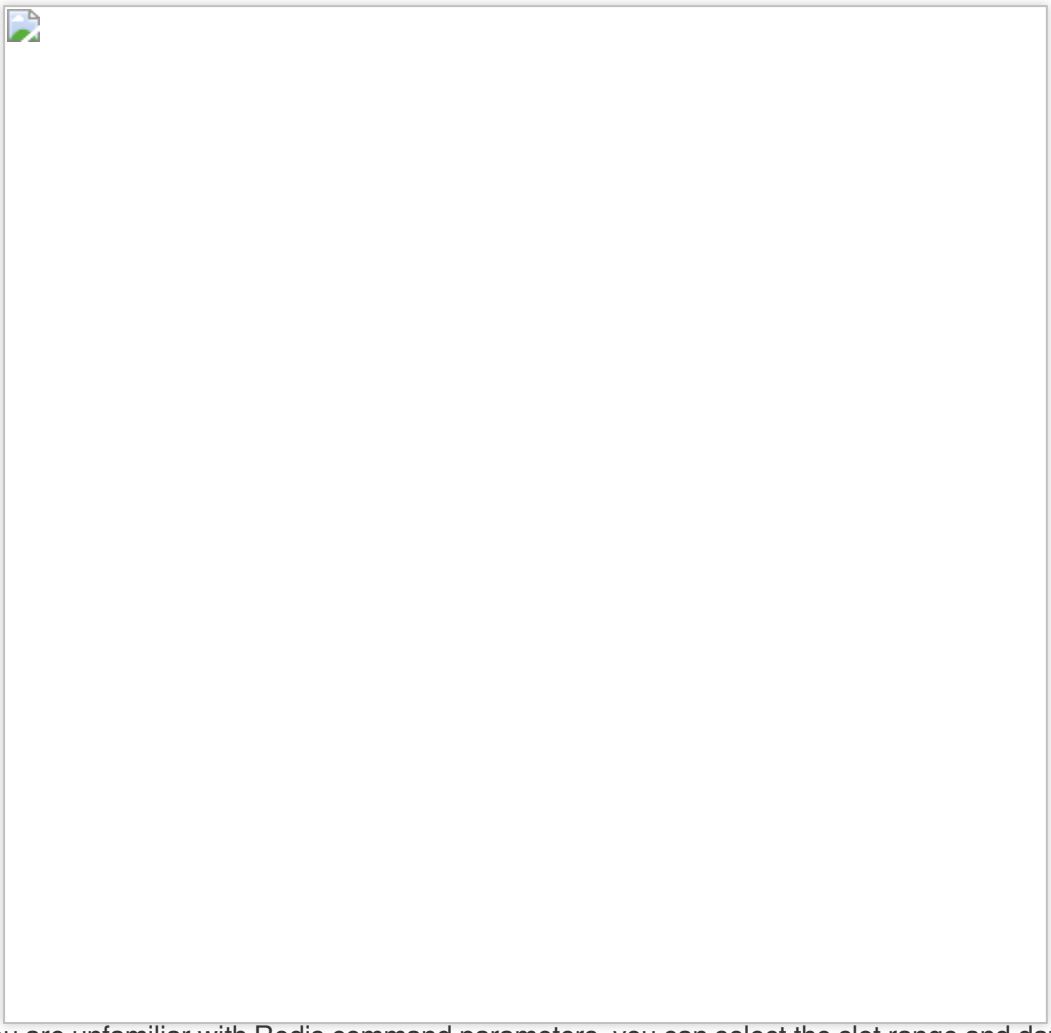
Connection via DMC

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 DMC. Enter the default account password of the target instance and click **Log In**.

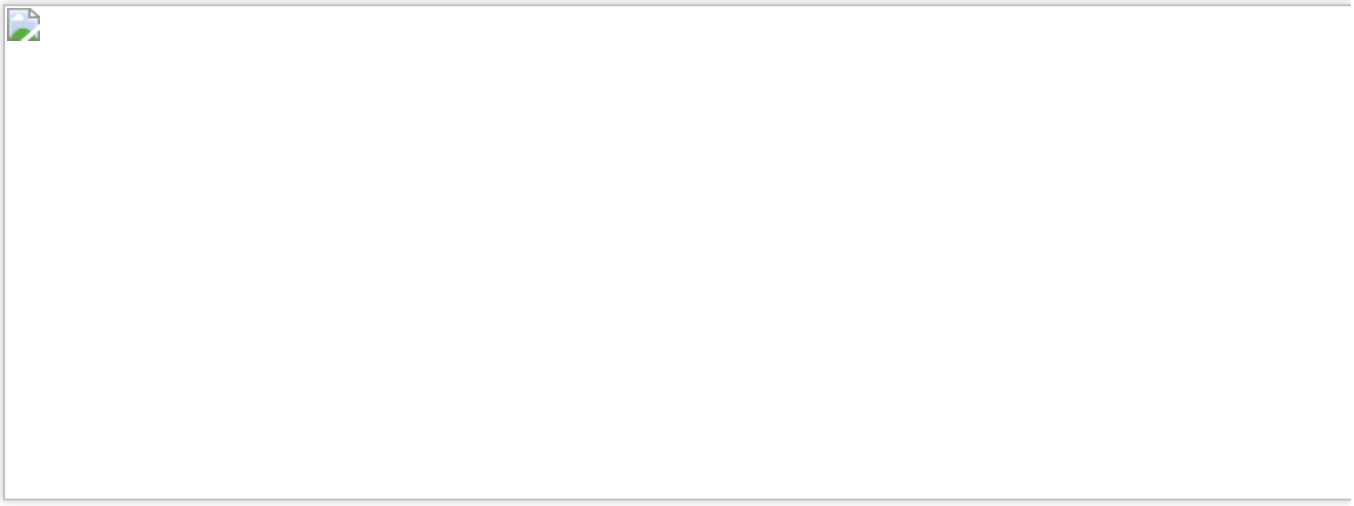


6. You can view the instance monitoring information on the **Instance Info** tab on the **Database Management** page.

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



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.

FAQs

For FAQs, see Connection and Login.