

Alibaba Cloud ApsaraDB for Redis

Quick Start

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information 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.
	This warning information 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 restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid <i>Instance_ID</i></code>
[] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

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1 Connect to the instance

1.1 Connect to ApsaraDB for Redis through the Internet

Prerequisites

To access an ApsaraDB for Redis instance from a local host, please configure port forwarding on ECS. However, the following prerequisites must be met:

- If the Redis instance is in a VPC network, the ECS instance must be in the same VPC network with the Redis instance .
- If the Redis instance is in the classic network, the ECS instance must be a classic network instance in the same region as the Redis instance.
- The internal IP address of the ECS instance must be added to the whitelist of the Redis instance. For more information, see [Set IP whitelists](#).
- ECS security group rules must be configured to allow access from the local host to the ECS instance and the Redis instance to the ECS instance. For more information, see [Add security group rules](#).

ECS Windows

Currently, ApsaraDB for Redis is accessible through ECS Intranet. To locally access ApsaraDB for Redis through a public network, perform port mapping using netsh on the ECS Windows server.

1. Log on to the ECS Windows server and run the following command in CMD:

```
netsh interface portproxy add v4tov4 listenaddr ess
=< private IP address of ECS > listenport = 6379
connectaddr res =< connection address of ApsaraDB for
Redis > connectport = 6379
```

To view all port forwarding rules on the server, run `netsh interface portproxy show all` .

2. Perform a verification test locally after configuration is complete.

```
root@peterpauldeMacBook-Pro:~/work$ telnet 115.159.114.114 6379
Trying 115.159.114.114...
Connected to 115.159.114.114.
Escape character is '^]'.
auth 115159114114
+OK
set key 11
+OK
get key
$2
11
```

- a. Run telnet locally to connect to the ECS Windows server. For example, if the public IP address of the ECS Windows server is 1.1.1.1, you can run `telnet 1.1.1.1 6379`.
- b. After the ECS Windows server is connected, enter the password to connect to ApsaraDB for Redis: `auth < Redis password >`.
- c. Write and read data to verify the availability of the connection.

After performing the preceding steps, you can use a local PC or server to connect to port 6379 of the ECS Windows server through the Internet and access ApsaraDB for Redis.



Notice:

Given that portproxy is provided by Microsoft and is not an open-source software program, please refer to portproxy instructions on netsh or contact Microsoft for help should you have any questions during the configuration. There are also other alternatives for consideration, such as configuring proxy through portmap.

3. `netsh interface portproxy delete v4tov4 listenaddr ess =< private IP address of the ECS server > listenport = 6379` can be used to delete unnecessary forwarding rules.

ECS Linux

Currently, ApsaraDB for Redis is accessible through ECS Intranet. To locally access ApsaraDB for Redis through a public network, install rinetd on the ECS Linux server to perform forwarding.

1. Install rinetd on the ECS Linux server.

```
wget http://www.boutell.com/rinetd/http/rinetd.tar.gz && tar -xvf rinetd.tar.gz && cd rinetd
sed -i 's/65536/65535/g' rinetd.c
# Modify the port range.
mkdir /usr/man && make && make install
```



Notice:

The rinetd installation package obtained from the download URL may be unavailable. You can download the rinetd installation package from other sources.

2. Open the configuration file `rinetd.conf`.

```
vi /etc/rinetd.conf
```

3. Add the following content to the configuration file:

```
0.0.0.0 6379 < connection address of the Redis
instance > 6379
logfile /var/log/rinetd.log
```



Note:

You can run `cat /etc/rinetd.conf` to check whether the configuration file is correctly modified.

```
[root@localhost rinetd]# cat /etc/rinetd.conf
0.0.0.0 6379 | b.m.cnhza.kvstore.aliyuncs.com 6379
logfile /var/log/rinetd.log
```

4. Run the following command to start rinetd:

```
rinetd
```

- You can run `echo rinetd >> /etc/rc.local` to set auto startup for rinetd.
- If a binding error is reported, run `kill rinetd` to terminate the process and run `rinetd` to start the rinetd process.
- After rinetd is started normally, run `netstat -anp | grep 6379` to check whether the service works properly.

```
root@ ~:~/rinetd# netstat -anp | grep 6379
tcp        0      0 0.0.0.0:6379          0.0.0.0:*           LISTEN      22324/rinetd
root@ ~:~/rinetd#
```

5. Perform a verification test locally.

- a. You can run `redis-cli` locally to connect to the ECS Linux server for access verification. For example, if the public IP address of the ECS server with `rinetd` installed is `1.1.1.1`, run `redis - cli - h 1 . 1 . 1 . 1`. Alternatively, `telnet` to port `6379` of the ECS Linux server and perform the verification. For example, if the public IP address of the ECS Linux server is `1.1.1.1`, you can run ``telnet 1.1.1.1 6379``.
- b. After the ECS Linux server is connected, enter the password to connect to Redis:
`auth < Redis password >`.
- c. Write and read data to verify the availability of the connection.

```
HH@peterpauledeMacBook-Pro:~/work$ telnet 1.1.1.1 6379
Trying 1.1.1.1...
Connected to 1.1.1.1.
Escape character is '^]'.
auth   
+OK
set key 11
+OK
get key
$2
11
```

After performing the preceding steps, you can use a local PC or server to connect to port `6379` of the ECS Linux server through the Internet and access ApsaraDB for Redis



Notice:

You can use the above scheme to test and use `rinetd`. `rinetd` is open source software. Read its official documentation or contact `rinetd` for support should you have any questions while using it.