



# Get started with Redis Enterprise Software

This guide helps you install Redis Enterprise Software on a Linux host to test its capabilities.

When finished, you'll have a simple cluster with a single node:

- Step 1: Install Redis Enterprise Software
- Step 2: Set up a Redis Enterprise Software cluster
- Step 3: Create a new Redis database
- Step 4: Connect to your Redis database

**Note:** This quick start is designed for local testing only. For production environments, the [install and setup](#) guide walks through deployment options appropriate for a production environment.

Quick start guides are also available to help you:

- Run Redis Software using a [Docker container](#), which lets you skip the installation process
- Set up a [Redis on Flash cluster](#) to optimize memory resources
- Set up an [Active-Active cluster](#) to enable high availability
- [Benchmark](#) Redis Enterprise Software performance.

## Step 1: Install Redis Enterprise Software

To install Redis Enterprise Software:

1. Download the installation files from the [Redis Enterprise Download Center](#) and copy the download package to machine with a Linux-based OS. To untar the image:

```
tar vxf <downloaded tar file name>
```

**Note:** You are required to create a free login to access the download center.

2. Once the tar command completes, run the `install.sh` script in the current directory.

```
sudo ./install.sh -y
```

## Port availability

If port 53 is in use, the installation fails. This is known to happen in default Ubuntu 18.04 installations where `systemd-resolved` (DNS server) is running. To work around this issue, change the system configuration to make this port available before installing Redis Enterprise Software.

Here's one way to do so:

1. Run: `sudo vi /etc/systemd/resolved.conf`
2. Add `DNSStubListener=no` as the last line in the file and save the file.
3. Run: `sudo mv /etc/resolv.conf /etc/resolv.conf.orig`
4. Run: `sudo ln -s /run/systemd/resolve/resolv.conf /etc/resolv.conf`
5. Run: `sudo service systemd-resolved restart`

## Step 2: Set up a cluster

To set up your machine as a Redis Enterprise software cluster:

1. In the web browser on the host machine, go to <https://localhost:8443> to see the Redis Enterprise Software web console.



### Note:

- Depending on your browser, you may see a certificate error. You can safely continue to the web console.
- If the server does not show the login screen, try again after a few minutes.

2. Click **Setup** to start the node configuration steps.

redis enterprise  
by redis labs  
Version 6.0.8-30

Setup

3. In the **Node Configuration** settings, enter a cluster FQDN such as `cluster.local`. Then click **Next** button.

## node configuration

Persistent storage path	<input type="text" value="/var/opt/redislabs/persist"/>	Free = 43.02 GB		
Ephemeral storage path ⓘ	<input type="text" value="/var/opt/redislabs/tmp"/>	Free = 43.02 GB		
<input type="checkbox"/> Enable flash storage support ⓘ <a href="#">Read more</a>				
IP Addresses Usage ⓘ <a href="#">Read more</a>	IP Address	Interface	Internal traffic ⓘ	External traffic ⓘ
	IPv4			
	172.17.0.2	eth0	<input checked="" type="radio"/>	<input type="checkbox"/>
	+			
Cluster configuration	<input checked="" type="radio"/> Create new cluster <input type="radio"/> Join cluster Cluster name (FQDN) <a href="#">Read more</a> <input type="text" value="cluster.local"/> <input type="checkbox"/> Enable private & public endpoints support <a href="#">Read more</a> <input type="checkbox"/> Enable rack-zone awareness <a href="#">Read more</a>			

**Next**

4. Enter your license key, if you have one. If not, click the **Next** button to use the trial version.
5. Enter an email and password for the admin account for the web console.

## set admin credentials

Email

Password

Verify password

**Back**      **Next**


These credentials are also used for connections to the REST API.

6. Click **OK** to confirm that you are aware of the replacement of the HTTPS SSL/TLS certificate on the node, and proceed through the browser warning.


## Step 3: Create a database

1. Select “redis database” and the “single region” deployment, and click Next.

## create new database



redis database



memcached database

Runs on  
RAM

Deployment  
Single Region

[Next](#)

2. Enter a database name such as database1 and then select **Show Advanced Options**.

cluster nodes databases log access control settings Documentation Support Sign Out

### create database

Name	<input type="text"/>
Protocol	Redis
Runs on	RAM
Memory limit (GB) <a href="#">Read more</a>	<input type="text" value="0.1"/> GB <span style="color: green;">3.91 GB RAM unallocated</span>
<input type="checkbox"/> Replication <a href="#">i</a>	
Redis Modules	<a href="#">+</a>
Data persistence	<input type="text" value="None"/>
<input checked="" type="checkbox"/> Default database access <a href="#">i</a>	<input type="text" value="Password"/> <input type="text" value="Confirm password"/>

[Cancel](#) [Activate](#) [Show advanced options](#)

3. In **Endpoint port number**, enter 12000.
4. Select the **Activate** button to create your database.

You now have a Redis database!

## Step 4: Connect to your database

After you create the Redis database, you are ready to store data in your database. You can test connectivity to your database with:

- redis-cli - the built-in command-line tool
- A *Hello World* application using Python

## Connect using redis-cli

redis-cli is a simple command-line tool to interact with Redis database.

Here's how to run redis-cli to connect to port 12000 and perform basic database operations using Redis commands:

```
$ sudo /opt/redislabs/bin/redis-cli -p 12000
127.0.0.1:16653> set key1 123
OK
127.0.0.1:16653> get key1
"123"
```

## Connecting using *Hello World* application in Python

A simple python application running on the **host machine**, not the container, can also connect to database1.

**!** **Note:** The following section assumes you already have Python and redis-py (python library for connecting to Redis) configured on the host machine running the container. You can find the instructions to configure redis-py on the [github page for redis-py](#).

1. Create a new file called redis\_test.py with this contents:

```
import redis

r = redis.StrictRedis(host='localhost', port=12000, db=0)
print ("set key1 123")
print (r.set('key1', '123'))
print ("get key1")
print(r.get('key1'))
```

2. Run the redis\_test.py application to store and retrieve a key:

```
python.exe redis_test.py
```

If the connection is successful, the output of the application looks like this:

```
set key1 123
True
get key1
123
```

## Supported web browsers

To use the Redis Software admin console, you need a modern browser with JavaScript enabled.

The following browsers have been tested with the current version of the admin console:

- Microsoft Windows, version 10 or later.
  - [Google Chrome](#), version 48 and later
  - [Microsoft Edge](#), version 20 and later
  - [Mozilla Firefox](#), version 44 and and later

- [Opera](#), version 35 and later.
- Apple macOS:
  - [Google Chrome](#), version 48 and later
  - [Mozilla Firefox](#), version 44 and and later
  - [Opera](#), version 35 and later.
- Linux:
  - [Google Chrome](#), version 49 and later
  - [Mozilla Firefox](#), version 44 and and later
  - [Opera](#), version 35 and later.

## Next steps

Now you have a Redis Enterprise cluster ready to go. You can connect to it with a [redis client](#) to start loading it with data or you can use the [mentier\\_benchmark Quick Start](#) to check the cluster performance.