

How to Install Cassandra on Google Cloud Platform (GCP) Compute Engine

STEP 1: Install Packages Necessary for Apache Cassandra

- Java OpenJDK 8
- api-transport-https package.

Install Java

Step 1.a:

updates the package lists for upgrades for packages that need upgrading, as well as new packages that have just come to the repositories.

```
sudo apt update
```

Step 1.b: Installing Java

```
sudo apt-get install default-jdk
```

Step 1.c: Find version of Java installed

```
java -version
```

Step 1.d: To know the java path

```
sudo update-alternatives --config java
sudo update-alternatives --config javac
```

Step 1.e set the JAVA_HOME environment variable

```
vim ~/.bashrc
```

```
JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64
```

```
source ~/.bashrc
```

<https://www.youtube.com/channel/UCMYpzoTJ2cniXVJA-OaUa9Q>

Install the apt-transport-https Package

You need to add this package to your system to enable access to the repositories using HTTPS.

```
sudo apt install apt-transport-https
```

STEP 2: Add Apache Cassandra Repository and Import GPG Key

Add the Apache Cassandra repository and pull the GPG key before installing the database.

Step 2.a: Add the Cassandra repository to the sources list

```
echo "deb http://downloads.apache.org/cassandra/debian 40x main" | sudo tee -  
a /etc/apt/sources.list.d/cassandra.sources.list deb  
http://downloads.apache.org/cassandra/debian 40x main
```

Note: To install an older version, for example 3.9, replace **40x** with **39x**.

Step 2.b: Use the **wget** command to pull the public key from the URL below

```
wget -q -O - https://www.apache.org/dist/cassandra/KEYS | sudo apt-key add -
```

STEP 3: Install Apache Cassandra

Step 3.a: Update the repository package list

```
sudo apt update
```

Step 3.b: run the install command

```
sudo apt-get install cassandra
```

Verify Apache Cassandra Installation

To make sure the Cassandra installation process completed properly, check cluster status

```
nodetool status
```

check Cassandra status (The output should display active (running) in green)

```
sudo systemctl status cassandra
```

<https://www.youtube.com/channel/UCMYpzoTJ2cniXVJA-OaUa9Q>

Commands to Start, Stop, and Restart Cassandra Service

command to start Cassandra:

```
sudo systemctl start cassandra
```

To restart the service, use the restart command

```
sudo systemctl restart Cassandra
```

To stop the Cassandra service

```
sudo systemctl stop Cassandra
```

STEP 4: Test Cassandra Command-Line Shell

```
cqlsh
```

Commands

```
help  
describe cluster;  
describe keyspaces;  
describe tables;
```