

Installing MongoDB on Ubuntu 18.04 VM in CloudStack

Step 1: First, update the packages list to have the most recent version of the repository listings with command `sudo apt update`.

Step 2: Install the MongoDB package itself:

```
ubuntu@ubuntu-CloudStack-KVM-Hypervisor:~$ sudo apt install -y mongodb
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

This command installs several packages containing the latest stable version of MongoDB, along with helpful management tools for the MongoDB server.

Step 3: Check if it worked:

```
ubuntu@ubuntu-CloudStack-KVM-Hypervisor:~$ sudo systemctl status mongodb
● mongod.service - An object/document-oriented database
   Loaded: loaded (/lib/systemd/system/mongod.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2020-03-03 18:31:01 MST; 32s ago
     Docs: man:mongod(1)
    Main PID: 10012 (mongod)
      Tasks: 23 (limit: 4663)
    CGroup: /system.slice/mongod.service
            └─10012 /usr/bin/mongod --unixSocketPrefix=/run/mongodb --config /etc/mongodb.conf

Mar 03 18:31:01 ubuntu-CloudStack-KVM-Hypervisor systemd[1]: Started An object/document-oriented da
lines 1-10/10 (END)
```

According to systemd, the MongoDB server is up and running.

```
ubuntu@ubuntu-CloudStack-KVM-Hypervisor:~$ mongo --eval 'db.runCommand({ connectionStatus: 1})'
MongoDB shell version v3.6.3
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.3
{
  "authInfo" : {
    "authenticatedUsers" : [ ],
    "authenticatedUserRoles" : [ ]
  },
  "ok" : 1
}
```

Step 4: Connect to MongoDB with command `mongo`

```
ubuntu@ubuntu-CloudStack-KVM-Hypervisor: ~$ mongo
MongoDB shell version v3.6.3
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.3
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
  http://docs.mongodb.org/
Questions? Try the support group
  http://groups.google.com/group/mongodb-user
Server has startup warnings:
2020-03-03T18:31:01.055-0700 I STORAGE [initandlisten]
2020-03-03T18:31:01.055-0700 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine
2020-03-03T18:31:01.055-0700 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem
2020-03-03T18:31:02.191-0700 I CONTROL [initandlisten]
2020-03-03T18:31:02.191-0700 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2020-03-03T18:31:02.191-0700 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2020-03-03T18:31:02.191-0700 I CONTROL [initandlisten]
> use admin
switched to db admin
```

Now mongoDB is ready for queries.

References

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Kevin. (2019, September 15). MongoDB usage notes. Retrieved from <https://www.kevinhooke.com/2012/07/27/mongodb-usagenotes/>

MongoDB - Create Database. (n.d.). Retrieved from https://www.tutorialspoint.com/mongodb/mongodb_create_database.htm

Rahul. (2019, October 30). How to Install MongoDB 4.2 on Ubuntu 18.04 & 16.04. Retrieved from <https://tecadmin.net/install-mongodb-on-ubuntu/>

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