

Install MongoDB on Ubuntu

Install MongoDB on Ubuntu

Install MongoDB on Ubuntu– In this tutorial, we shall learn to install MongoDB Community Edition on Ubuntu 16.04. The process should remain same for 64 bit versions of Ubuntu 14.04 and Ubuntu 12.04.

Following is a quick overview of the steps we go through while **installing MongoDB on Ubuntu**.

1. Import MongoDB GPG public key
2. Create list file for MongoDB
3. Reload Local Package Database
4. Install MongoDB Packages
5. Start MongoDB
6. Stop MongoDB

Following is a detailed step by step guide to Install MongoDB on Ubuntu.

1. Import MongoDB GPG public key

Open a terminal and run the following command to import MongoDB GPG public key.

```
sudo apt-key adv --  
keyserver
```

```
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv 0C49F3730359A14518585931BC711F9BA15703C6
```

```
root@arjun-  
VPCEH26EN:/home/arj
```

```
root@arjun-VPCEH26EN:/home/arjun# sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv  
0C49F3730359A14518585931BC711F9BA15703C6  
Executing: /tmp/tmp.2327Zvbks/gpg.1.sh --keyserver  
hkp://keyserver.ubuntu.com:80  
--recv  
0C49F3730359A14518585931BC711F9BA15703C6  
gpg: requesting key A15703C6 from hkp server keyserver.ubuntu.com  
gpg: key A15703C6: public key "MongoDB 3.4 Release Signing Key <packaging@mongodb.com>" imported  
gpg: Total number processed: 1  
gpg: imported: 1 (RSA: 1)
```

2. Create list file for MongoDB

The list file changes from Ubuntu release to release. Run the corresponding command in terminal for the Ubuntu version of yours.

Ubuntu Release	Command
Ubuntu 12.04 (Precise)	<code>echo "deb [arch=amd64] http://repo.mongodb.org/apt/ubuntuprecise/mongodb-org/3.4 multiverse" sudo tee /etc/apt/sources.list.d/mongodb-org-3.4.list</code>
Ubuntu 14.04 (Trusty)	<code>echo "deb [arch=amd64] http://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.4 multiverse" sudo tee /etc/apt/sources.list.d/mongodb-org-3.4.list</code>
Ubuntu 16.04 (Xenial)	<code>echo "deb [arch=amd64,arm64] http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.4 multiverse" sudo tee /etc/apt/sources.list.d/mongodb-org-3.4.list</code>

When run for Ubuntu 16.04 (Xenial)

```
root@arjun-VPCEH26EN:/home/arj
```

```
root@arjun-VPCEH26EN:/home/arjun# echo "deb [ arch=amd64,arm64 ] http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.4.list
deb [ arch=amd64,arm64 ] http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.4 multiverse
```

3. Reload Local Package Database

Run the following command in terminal to reload local package database

```
sudo apt-get update
```

```
sudo apt-get update
```

4. Install MongoDB Packages

Running following command installs MongoDB Packages.

```
sudo apt-get install -y mongodb-org
```

```
sudo apt-get install -y mongodb-org
```

```
...
The following additional
```

```
...
The following additional packages will be installed:
```

mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools

The following NEW packages will be installed:

mongodb-org mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools

0 upgraded, 5 newly installed, 0 to remove and 5 not upgraded.

Need to get 66.9 MB of archives.

After this operation, 270 MB of additional disk space will be used.

Get:1 <http://repo.mongodb.org/apt/ubuntu/xenial/mongodb-org/3.4/multiverse/amd64/mongodb-org-shell> amd64 3.4.9 [7,983 kB]

Get:2 <http://repo.mongodb.org/apt/ubuntu/xenial/mongodb-org/3.4/multiverse/amd64/mongodb-org-server> amd64 3.4.9 [14.2 MB]

Get:3 <http://repo.mongodb.org/apt/ubuntu/xenial/mongodb-org/3.4/multiverse/amd64/mongodb-org-mongos> amd64 3.4.9 [8,113 kB]

Get:4 <http://repo.mongodb.org/apt/ubuntu/xenial/mongodb-org/3.4/multiverse/amd64/mongodb-org-tools> amd64 3.4.9 [36.5 MB]

Get:5 <http://repo.mongodb.org/apt/ubuntu/xenial/mongodb-org/3.4/multiverse/amd64/mongodb-org> amd64 3.4.9 [3,526 B]

Fetches 66.9 MB in 1min 48s (614 kB/s)

Selecting previously unselected package mongodb-org-shell.

(Reading database ... 1279975 files and directories currently installed.)

Preparing to unpack .../mongodb-org-shell_3.4.9_amd64.deb ...

Unpacking mongodb-org-shell (3.4.9) ...

Selecting previously unselected package mongodb-org-server.

Preparing to unpack .../mongodb-org-server_3.4.9_amd64.deb ...

Unpacking mongodb-org-server (3.4.9) ...

Selecting previously unselected package mongodb-org-mongos.

Preparing to unpack .../mongodb-org-mongos_3.4.9_amd64.deb ...

Unpacking mongodb-org-mongos (3.4.9) ...

Selecting previously unselected package mongodb-org-tools.

Preparing to unpack .../mongodb-org-tools_3.4.9_amd64.deb ...

Unpacking mongodb-org-tools (3.4.9) ...

Selecting previously unselected package mongodb-org.

Preparing to unpack .../mongodb-org_3.4.9_amd64.deb ...

Unpacking mongodb-org (3.4.9) ...

Processing triggers for man-db (2.7.5-1) ...

Setting up mongodb-org-shell (3.4.9) ...

Setting up mongodb-org-server (3.4.9) ...

Adding system user `mongodb' (UID 130) ...

Adding new user `mongodb' (UID 130) with group `nogroup' ...

Not creating home directory `/home/mongodb'.

Adding group `mongodb' (GID 139) ...

Done.

Adding user `mongodb' to group `mongodb' ...

Adding user mongodb to group mongodb

Done.

Setting up mongodb-org-mongos (3.4.9) ...

Setting up mongodb-org-tools (3.4.9) ...

Setting up mongodb-org (3.4.9) ...

5. Start MongoDB

To start MongoDB, run the following command in terminal

```
sudo service mongod  
start
```

```
sudo service mongod start
```

To verify if MongoDB has started, check mongod.log whose location is `/var/log/mongodb/mongod.log`

```
2017-10-  
14T17:08:27.786+0530
```

```
2017-10-14T17:08:27.786+0530 | INDEX [initandlisten] build index done. scanned 0 total records. 0 secs  
2017-10-14T17:08:27.787+0530 | COMMAND [initandlisten] setting featureCompatibilityVersion to 3.4  
2017-10-14T17:08:27.787+0530 | NETWORK [thread1] waiting for connections on port 27017
```

MongoDB would be started and waiting for connections on 27017.

6. Stop MongoDB

To stop MongoDB, run the following command in terminal

```
sudo service mongod  
stop
```

```
sudo service mongod stop
```

```
2017-10-  
14T17:11:28.121+0530
```

```
2017-10-14T17:11:28.121+0530 | CONTROL [signalProcessingThread] got signal 15 (Terminated), will terminate after current cmd ends  
2017-10-14T17:11:28.121+0530 | NETWORK [signalProcessingThread] shutdown: going to close listening sockets...  
2017-10-14T17:11:28.121+0530 | NETWORK [signalProcessingThread] closing listening socket: 7  
2017-10-14T17:11:28.122+0530 | NETWORK [signalProcessingThread] closing listening socket: 8  
2017-10-14T17:11:28.122+0530 | NETWORK [signalProcessingThread] removing socket file: /tmp/mongodb-27017.sock  
2017-10-14T17:11:28.122+0530 | NETWORK [signalProcessingThread] shutdown: going to flush diaglog...  
2017-10-14T17:11:28.122+0530 | FTDC [signalProcessingThread] Shutting down full-time diagnostic data capture  
2017-10-14T17:11:28.127+0530 | STORAGE [signalProcessingThread] WiredTigerKVEngine shutting down  
2017-10-14T17:11:28.475+0530 | STORAGE [signalProcessingThread] shutdown: removing fs lock...  
2017-10-14T17:11:28.475+0530 | CONTROL [signalProcessingThread] now exiting  
2017-10-14T17:11:28.475+0530 | CONTROL [signalProcessingThread] shutting down with code:0  
2017-10-14T17:11:28.475+0530 | CONTROL [initandlisten] shutting down with code:0
```

Conclusion :

In this MongoDB Tutorial –**Install MongoDB on Ubuntu** we have learnt to install MongoDB on Ubuntu, start MongoDB and stop MongoDB.

MongoDB Tutorial

- MongoDB Tutorial

- **Install MongoDB on Ubuntu**

- Start MongoDB Server

- MongoDB Shell

- Check MongoDB Version

- MongoDB Server Port Number - Default Value and How to Change it

- MongoDB Script

Database

- MongoDB Database

- MongoDB Create Database

- MongoDB Delete Database

Collections

- MongoDB Collection

- MongoDB Create Collection

- MongoDB Delete Collection

Documents

- MongoDB Document

- MongoDB Insert Document

- MongoDB Query Documents

- MongoDB Project Fields in Result

- MongoDB Update Document

- MongoDB Delete Document

- MongoDB Limit Documents

- MongoDB Skip Documents

- MongoDB Sort Documents

- MongoDB Setup Replica Set

- MongoDB Locks

MongoDB Concepts

‡ [MongoDB Text Search](#)

‡ [MongoDB MapReduce](#)

‡ [MongoDB Backup - mongodump](#)

MongoDB Queries

‡ [MongoDB Date](#)

MongoDB Queries

‡ [MongoDB Date\(\)](#)

MongoDB Integration

MongoDB Java

‡ [Connect to MongoDB from Java](#)

MongoDB Python

‡ [Connect to MongoDB from Python](#)

MongoDB Kotlin

‡ [Connect to MongoDB from Kotlin](#)

MongoDB Node.js

‡ [Node.js MongoDB](#)

‡ [Node.js MongoDB Connection](#)

‡ [Node.js MongoDB Create Database](#)

‡ [Node.js MongoDB Drop Database](#)

‡ [Node.js MongoDB Create Collection](#)

‡ [Node.js MongoDB Delete Collection](#)

‡ [Node.js MongoDB Insert Documents](#)

‡ [MongoError: failed to connect to server](#)

MongoDB Others

‡ [MongoDB Interview Questions](#)

‡ [Uninstall MongoDB from Ubuntu](#)

Useful Resources

‡ [How to Learn Programming](#)