

MongoDB 3.0

Installation

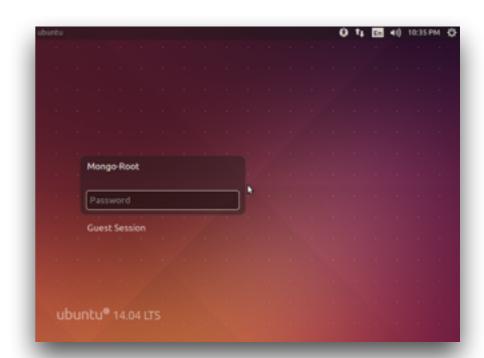
Topics

- Install MongoDB on Linux Ubuntu 14.04.2 LTS
- Start MongoDB Manually.
- Import Sample Data.

Lab 1: Install MongoDB

- Start Ubuntu Guest OS on VMWare Desktop.
- 2. At the login screen, login with mongo-root account:
 - Username: mongo-root
 - Password: pass@word1
- 3. Open Terminal.
- 4. Update Ubuntu

```
sudo apt-get update
sudo apt-get upgrade -y
```





Lab 1: Install MongoDB

5. Import the public key used by the package management system.

```
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
7F0CEB10
```

6. Create a list file for MongoDB

```
echo "deb http://repo.mongodb.org/apt/ubuntu "$(lsb_release -sc)"/mongodb-org/3.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.0.list
```

7. Reload local package database

```
sudo apt-get update
```

8. Install the MongoDB packages

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

Lab 2: Test Connection with Mongo shell

- 1. Open Terminal
- 2. Connect MongoDB with mongoshell, enter command...

mongo

3. In mongo shell, enter command...

```
show dbs
```

4. Exit from shell by enter command...

```
exit
```

```
mongo-root@ubuntu: ~
 ongo-root@ubuntu:~$ mongo
 ongoDB shell version: 3.0.1
connecting to: test
Server has startup warnings:
2015-03-18T23:43:34.741-0700 I CONTROL
                                        [initandlisten]
2015-03-18T23:43:34.741-0700 I CONTROL [initandlisten] ** WARNING: /sys/kernel,
mm/transparent_hugepage/enabled is 'always'.
2015-03-18T23:43:34.741-0700 I CONTROL [initandlisten] **
                                                                   We suggest set
2015-03-18T23:43:34.741-0700 I CONTROL [initandlisten]
2015-03-18T23:43:34.741-0700 I CONTROL [initandlisten] ** WARNING: /sys/kernel,
m/transparent_hugepage/defrag is 'always'.
2015-03-18T23:43:34.741-0700 I CONTROL [initandlisten] **
                                                                  We suggest set
ting it to 'never'
2015-03-18T23:43:34.741-0700 I CONTROL [initandlisten]
```

Lab 3: Start MongoDB Manually

- 1. Open File Manager, create folder named "data" in the home folder.
- 2. Open Terminal
- 3. Start new MongoDB process by enter command...

```
mongod -port 5000 -dbpath /home/mongo-root/data
```

4. Open second Terminal (right-click on the Terminal icon and choose "New Terminal"), connect mongo shell to the second MongoDB process by enter command...

```
mongo —host localhost —port 5000
```

5. Quit from mongo shell by enter command...

exit

Go back to the first Terminal, quit MongoDB process by press Control+C from keyboard.

Lab 4: Import data into MongoDB

- 1. Open Terminal
- 2. Start MongoDB Service

sudo start mongod

3. Goto Desktop folder by enter command...

```
cd /home/mongo-root/Desktop
or
cd Desktop
```

4. Import sample data from tweets.json into MongoDB, enter command...

mongoimport --db twitter_data --collection tweets --file tweets.json

Lab 5: Validate imported data

1. Open mongo shell by enter command...

mongo

2. Inside mongo shell, display databases inside current MongoDB process by enter command...

show dbs

You should see 2 databases, "local" and "twitter_data"

3. Connect to database named "twitter_data" by enter command...

```
use twitter_data
```

4. Show collections inside database by enter command...

show collections

You should see 2 collections, "system.indexes" and "tweets"

5. Display document count inside collection named "tweets" by enter command...

```
db.tweets.count()
```

References

- Ubuntu
 - Official Website: <u>http://www.ubuntu.com</u>
 - Desktop Download page: http://www.ubuntu.com/download/desktop
 - Server Download page: <u>http://www.ubuntu.com/download/server</u>
- Download MongoDB Installer Packages :-
 - http://www.mongodb.org/downloads?_ga=1.83537808.784597387.1426580584
- MongoDB Installation Documents
 - Ubuntu Linux: http://docs.mongodb.org/manual/tutorial/getting-started/
 - Windows: http://docs.mongodb.org/manual/tutorial/install-mongodb-on-windows/