I. Installation

MongoDB install:

- 1. Download the binaries of MongoDB and setup the environment. We can create a new user account/group as the owner of the mongodb related files.
- 2. cd /usr/local
- 3. Download MongoDB- sudo curl -O https://fastdl.mongodb.org/linux/mongodb-linux-x86_64-ubuntu1604- 3.2.10.tgz
- 4. Untar the downloaded package -sudo tar zxvf mongodb-linux-x86_64-ubuntu1604-3.2.10.tgz
- 5. Change the owner of the files(in our case the user is hduser and group is project)-sudo chown –R hduser:project mongodb-linux-x86_64-ubuntu1604-3.2.10
- 6. Create a symbolic link- sudo ln –s mongodb-linux-x86_64-ubuntu1604-3.2.10 mongodb
- 7. Make a directory for mongodbdata- sudo mkdir ../mongodbdata
- 8. Change the owner for the above created directry- sudo chown –R hduser:project ../mongodbdata
- 9. cd/
- 10. Create a symbolic lync- sudo ln -s /usr/mongodbdata data
- 11. cd data
- 12. Make a directory names db under data- mkdir -p db
- 13. For setting the environment variables edit the .bashrc file
 - 1. cd ~
 - 2. vi .bashrc
 - 3. Add 'export PATH=\$PATH:/usr/local/mongodb/bin' in the file and save.
- 14. Source the .bashrc file- . .bashrc
- 14. Start the mongod process and allow the session to run the process mongod --bind_ip 127.0.0.1

Install Cassandra:

- Cassandra requires oracle JRE, so add the personal package archive- sudo add-apt-repository ppa:webupd8team/java
- 2. Update the package database- sudo apt-get update
- 3. Install the Oracle JRE, accept the license agreement- sudo apt-get install oracle-java8-set-default
- 4. Verify that it is a default JRE- java -version
- 5. Add the repository of the cassandra package to make it available for the system echo "deb http://www.apache.org/dist/cassandra/debian 311x main" | sudo tee -a /etc/apt/sources.list.d/cassandra.sources.list.

- Add the repository's source- echo "deb-src http://www.apache.org/dist/cassandra/debian 311x main" | sudo tee -a /etc/apt/sources.list.d/cassandra.sources.list
- 7. We need to add 3 public keys from Apache to avoid the package signature warning during update of package.

First key-

gpg --keyserver pgp.mit.edu --recv-keys F758CE318D77295D gpg --export --armor F758CE318D77295D | sudo apt-key add -

Second key-

gpg --keyserver pgp.mit.edu --recv-keys 2B5C1B00 gpg --export --armor 2B5C1B00 | sudo apt-key add -

Third key-

gpg --keyserver pgp.mit.edu --recv-keys 0353B12C

gpg --export --armor 0353B12C | sudo apt-key add -

8. Update the package database once again

sudo apt-get update

9. Install Cassandra-

sudo apt-get install cassandra

10. To confirm that cassandra is running or not, run the below command.

sudo service cassandra status.

The output should be 'Active(running)'