Installation of Cassandra DB

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Download the binaries

- Download the Cassandra binary file from below link:

- http://a.mbbsindia.com/cassandra/2.2.5/apache-cassandra-2.2.5-bin.tar.gz

- Remember the Cassandra 3.0 + needs the Java8 onwards.

Java installation

- Make sure that you have Java installed in your system by,

  $ java -version

- else, install it by,

  $ sudo apt-get install openjdk-7-jdk

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Extract and copy Cassandra

- Extract the cassandra's tar file by right clicking on it and selecting 'Extract here' option.

- It will create the folder **apache-cassandra-2.2.5**.

- Rename this folder as 'cassandra'.

- Now, move this folder to /usr/lib

```
$ sudo mv cassandra/   /usr/lib
```

Create directories

- Create data, commitlog, saved_caches and log directories:

```
sudo mkdir /usr/lib/cassandra/lib/data
sudo mkdir /usr/lib/cassandra/lib/commitlog
sudo mkdir /usr/lib/cassandra/lib/saved_caches
sudo mkdir /usr/lib/log
```

Make directory entries

- Open cassandra.yaml file and make these directory entries in it.

```
sudo gedit /usr/lib/cassandra/conf/cassandra.yaml
```

- Go to end of this file and add the following:

```
data_file_directories:
- /usr/lib/cassandra/lib/data
commitlog_directory: /usr/lib/cassandra/lib/commitlog
saved_caches_directory: /usr/lib/cassandra/lib/saved_caches
```

Make log directory entry

- Open logback.xml

  `sudo gedit /usr/lib/cassandra/conf/logback.xml`

- Edit the line number 35 as,

  `<file>/usr/lib/cassandra/log/system.log</file>`

Edit the bashrc file

- Open the bashrc file:

  `sudo gedit ~/.bashrc`

- Go to end of the file and add following lines.

  `export CASSANDRA_HOME=/usr/lib/cassandra`

  `export PATH=$PATH:$CASSANDRA_HOME/bin`

- Type following command to make it in effect:

  `source ~/.bashrc`

- Start the cassandra by following command:

```
cassandra -f
```

- Keep this process running at foreground.
- Open another tab in the terminal (ctrl+shift+t) and type:

```
cqlsh
```

Cassandra shell

```
rashmi@rashmi-dell:~$ cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 2.2.4 | CQL spec 3.3.1 | Native protocol v4]
Use HELP for help.
cqlsh>
```

Start the cassandra

Cassandra shell

```
cqlsh> CREATE KEYSPACE mykeyspace
   ... WITH REPLICATION = { 'class' : 'SimpleStrategy', 'replication_factor' : 1 };
cqlsh> use mykeyspace ;
cqlsh:mykeyspace> create table mitu (
             ... emp_no int PRIMARY KEY,
             ... ename text,
             ... esalary text);
```

Cassandra shell

```
cqlsh:mykeyspace> insert into mitu (emp_no, ename, esalary) values (1,'rajesh','12000');
cqlsh:mykeyspace> insert into mitu (emp_no, ename, esalary) values (2,'amita','20000');
cqlsh:mykeyspace> insert into mitu (emp_no, ename, esalary) values (3,'heena','6000');
cqlsh:mykeyspace> insert into mitu (emp_no, ename, esalary) values (4,'akshay','16000');
cqlsh:mykeyspace> select * from mitu;

 emp_no | ename  | esalary
--------+--------+---------
      1 | rajesh |   12000
      2 |  amita |   20000
      4 | akshay |   16000
      3 |  heena |    6000

(4 rows)
```

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Thank you

Web Resources
http://mitu.co.in
http://tusharkute.com

Blogs
http://digitallocha.blogspot.in
http://kyamputar.blogspot.in

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