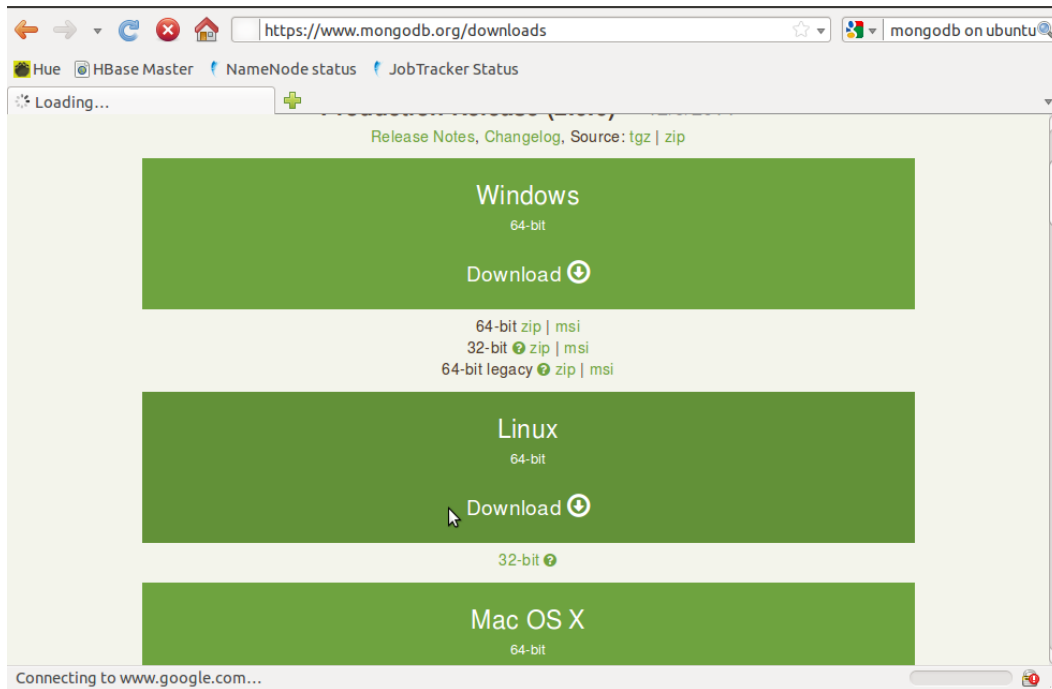


Module 1

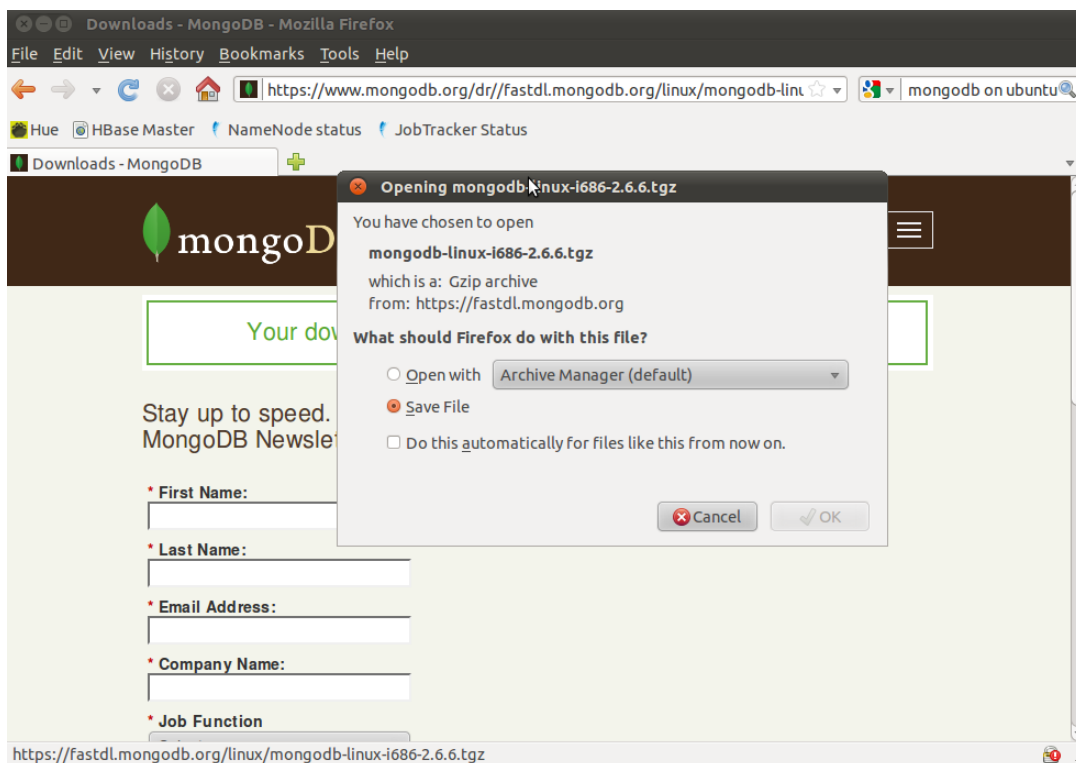
MongoDB Installation Guide on Linux

Step1. Download mongoDB tar file from the internet

<https://www.mongodb.org/downloads>



Select Linux OS with 32 bit



Click on 'OK' button

Step2. Extract tar file

Using command **\$ sudo tar xvf '<drag-nd-drop-inputfile>'**

```

cloudera@cloudera-vm: ~/Desktop
File Edit View Search Terminal Help
cloudera@cloudera-vm:~$ cd Desktop
cloudera@cloudera-vm:~/Desktop$ sudo tar xvf '/home/cloudera/Desktop/mongodb-linux-i686-2.6.6.tgz'
[sudo] password for cloudera: 

```

```

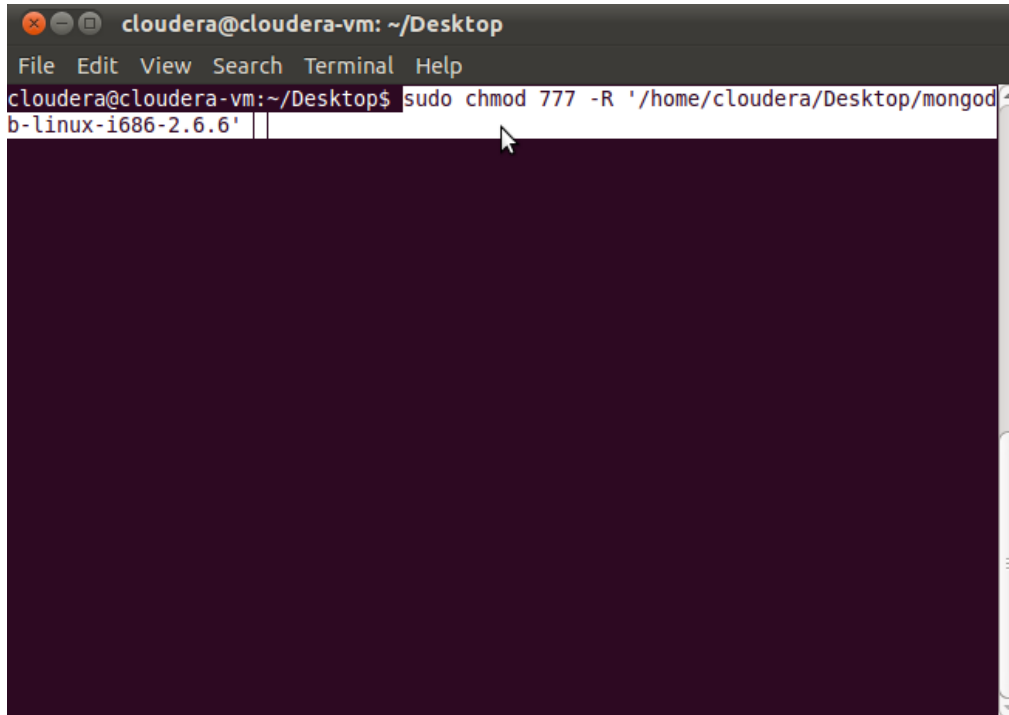
cloudera@cloudera-vm: ~/Desktop
File Edit View Search Terminal Help
cloudera@cloudera-vm:~$ cd Desktop
cloudera@cloudera-vm:~/Desktop$ sudo tar xvf '/home/cloudera/Desktop/mongodb-linux-i686-2.6.6.tgz'
[sudo] password for cloudera:
mongodb-linux-i686-2.6.6/README
mongodb-linux-i686-2.6.6/THIRD-PARTY-NOTICES
mongodb-linux-i686-2.6.6/GNU-AGPL-3.0
mongodb-linux-i686-2.6.6/bin/mongodump
mongodb-linux-i686-2.6.6/bin/mongorestore
mongodb-linux-i686-2.6.6/bin/mongoexport
mongodb-linux-i686-2.6.6/bin/mongoimport
mongodb-linux-i686-2.6.6/bin/mongostat
mongodb-linux-i686-2.6.6/bin/mongotop
mongodb-linux-i686-2.6.6/bin/mongooplog
mongodb-linux-i686-2.6.6/bin/mongofiles
mongodb-linux-i686-2.6.6/bin/bsondump
mongodb-linux-i686-2.6.6/bin/mongoperf
mongodb-linux-i686-2.6.6/bin/mongod
mongodb-linux-i686-2.6.6/bin/mongos
mongodb-linux-i686-2.6.6/bin/mongo
cloudera@cloudera-vm:~/Desktop$ ~

```

Step 3: Now, we have extracted the tar file in desktop directory

We need to give all permission to the extracted directory

\$ sudo chmod 777 -R '/home/cloudera/Desktop/mongodb-linux-i686-2.6.6'



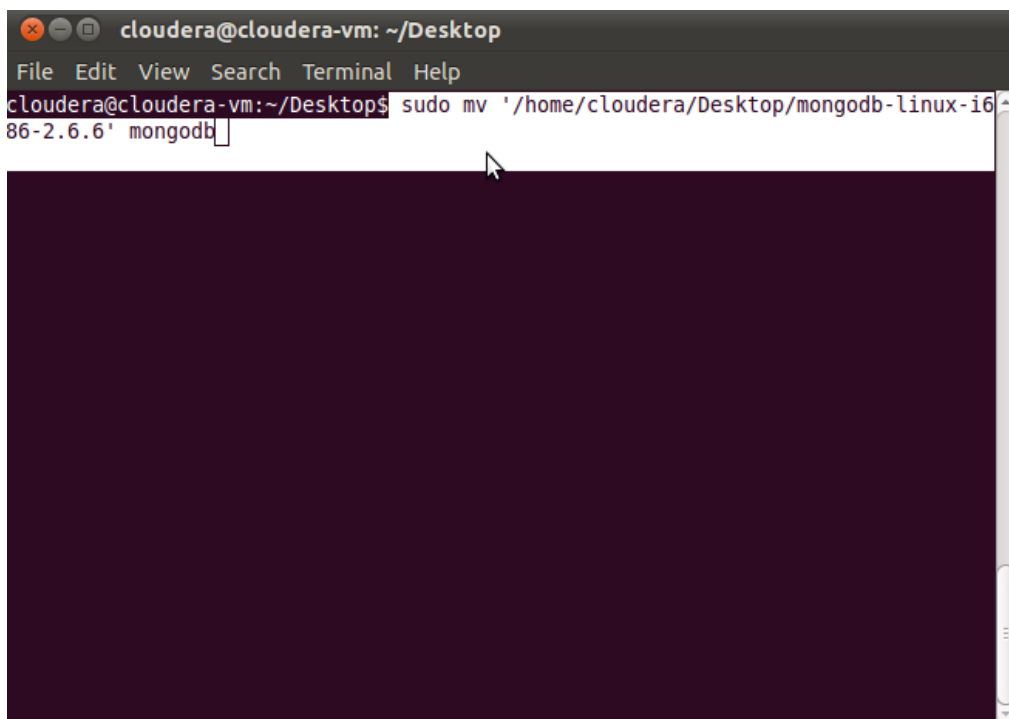
```

cloudera@cloudera-vm: ~/Desktop
File Edit View Search Terminal Help
cloudera@cloudera-vm:~/Desktop$ sudo chmod 777 -R '/home/cloudera/Desktop/mongodb-linux-i686-2.6.6'

```

Step 4: Renamed it with name 'mongodb'

Sudo mv '/home/cloudera/Desktop/mongodb-linux-i686-2.6.6' mongodb



```

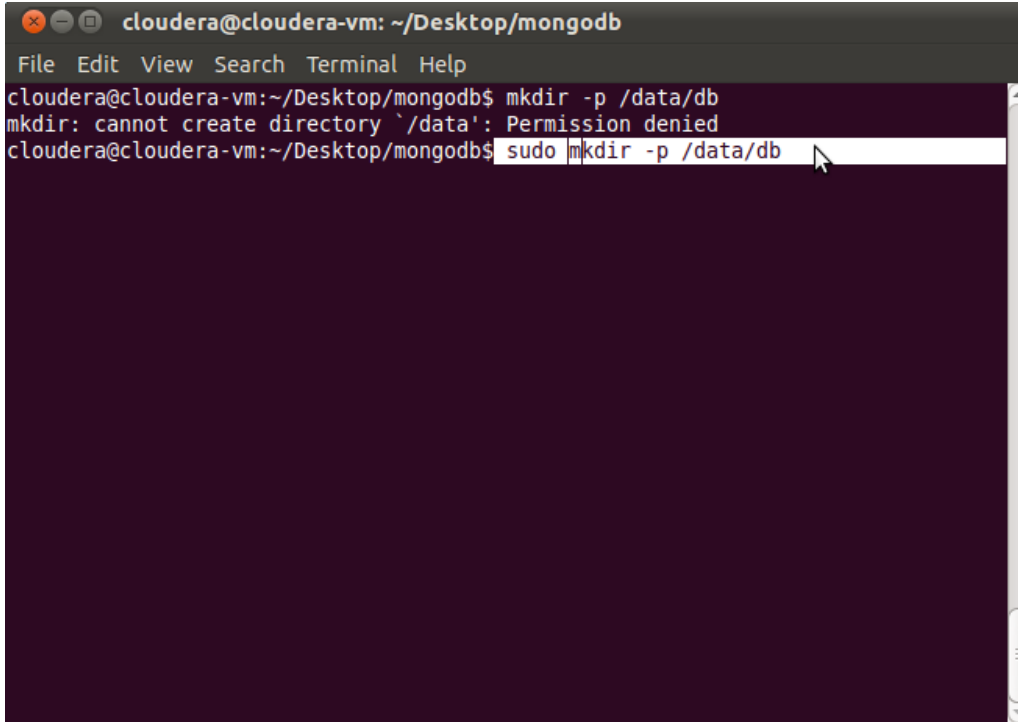
cloudera@cloudera-vm: ~/Desktop
File Edit View Search Terminal Help
cloudera@cloudera-vm:~/Desktop$ sudo mv '/home/cloudera/Desktop/mongodb-linux-i686-2.6.6' mongodb

```

Step 5: Create directory in file system

We have created directory /data/db using the below command

\$ sudo mkdir -p /data/db



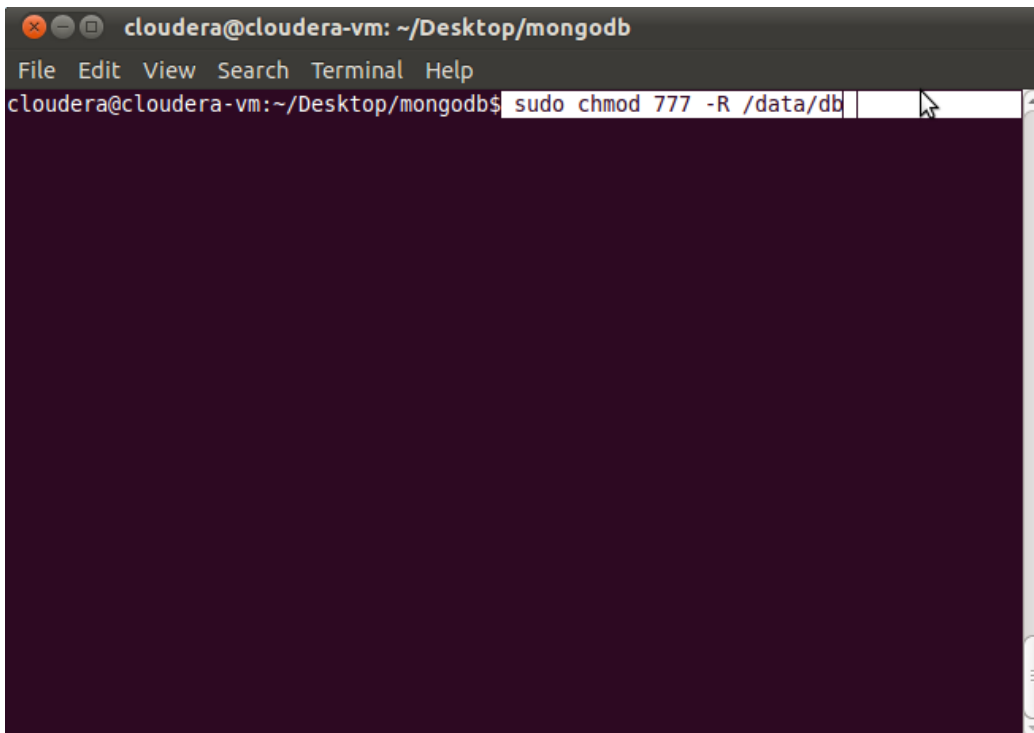
```

cloudera@cloudera-vm: ~/Desktop/mongodb
File Edit View Search Terminal Help
cloudera@cloudera-vm:~/Desktop/mongodb$ mkdir -p /data/db
mkdir: cannot create directory `/data': Permission denied
cloudera@cloudera-vm:~/Desktop/mongodb$ sudo mkdir -p /data/db

```

Step 6: Give all permission to that directory

Sudo chmod 777 -R /data/db



```

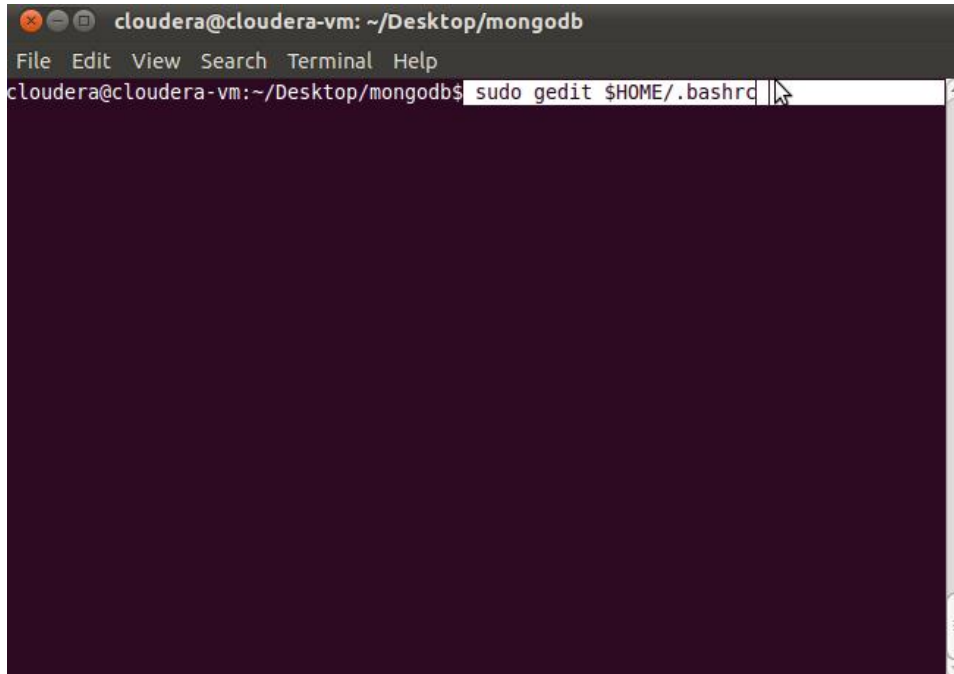
cloudera@cloudera-vm: ~/Desktop/mongodb
File Edit View Search Terminal Help
cloudera@cloudera-vm:~/Desktop/mongodb$ sudo chmod 777 -R /data/db

```

Step 7: We have to set the mongodb directoty path in .bashrc file

To make changes in the .bashrc file. Open it using

\$ sudo gedit \$HOME/.bashrc



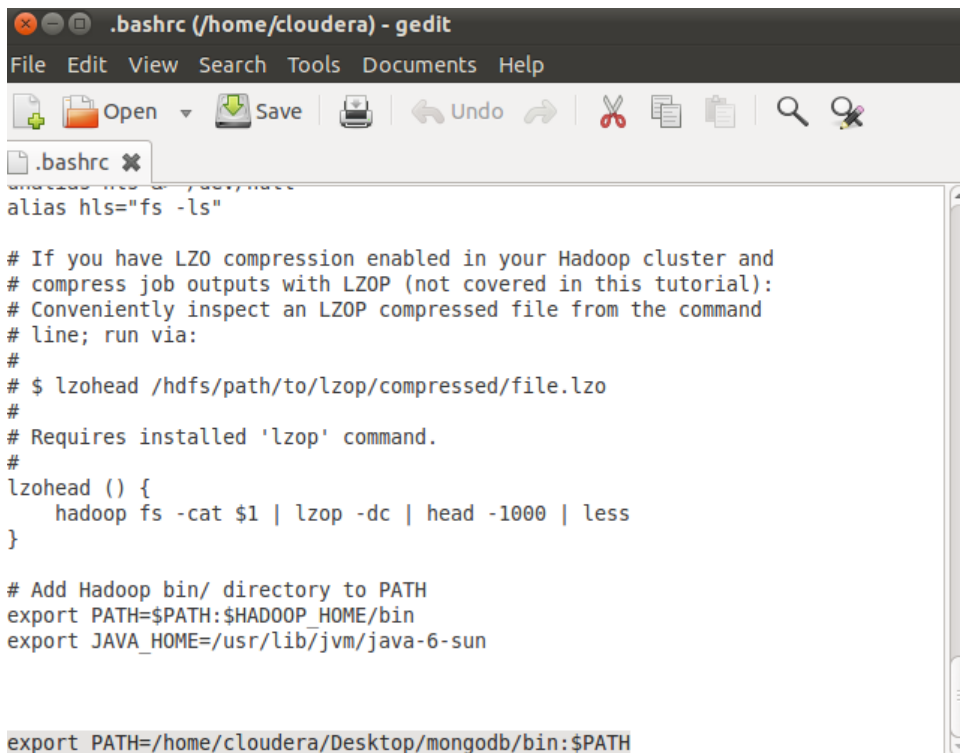
```

cloudera@cloudera-vm: ~/Desktop/mongodb
File Edit View Search Terminal Help
cloudera@cloudera-vm:~/Desktop/mongodbs$ sudo gedit $HOME/.bashrc

```

Step 8: Add these lines of code in .bashrc file at the end of the file

export PATH=/home/cloudera/Desktop/mongodb/bin:\$PATH



```

.bashrc (/home/cloudera) - gedit
File Edit View Search Tools Documents Help
Open Save Undo Redo Cut Copy Paste Find
.bashrc x
alias hls="fs -ls"

# If you have LZ0 compression enabled in your Hadoop cluster and
# compress job outputs with LZOP (not covered in this tutorial):
# Conveniently inspect an LZOP compressed file from the command
# line; run via:
#
# $ lzohead /hdfs/path/to/lzop/compressed/file.lzo
#
# Requires installed 'lzop' command.
#
lzohead () {
    hadoop fs -cat $1 | lzop -dc | head -1000 | less
}

# Add Hadoop bin/ directory to PATH
export PATH=$PATH:$HADOOP_HOME/bin
export JAVA_HOME=/usr/lib/jvm/java-6-sun

export PATH=/home/cloudera/Desktop/mongodb/bin:$PATH

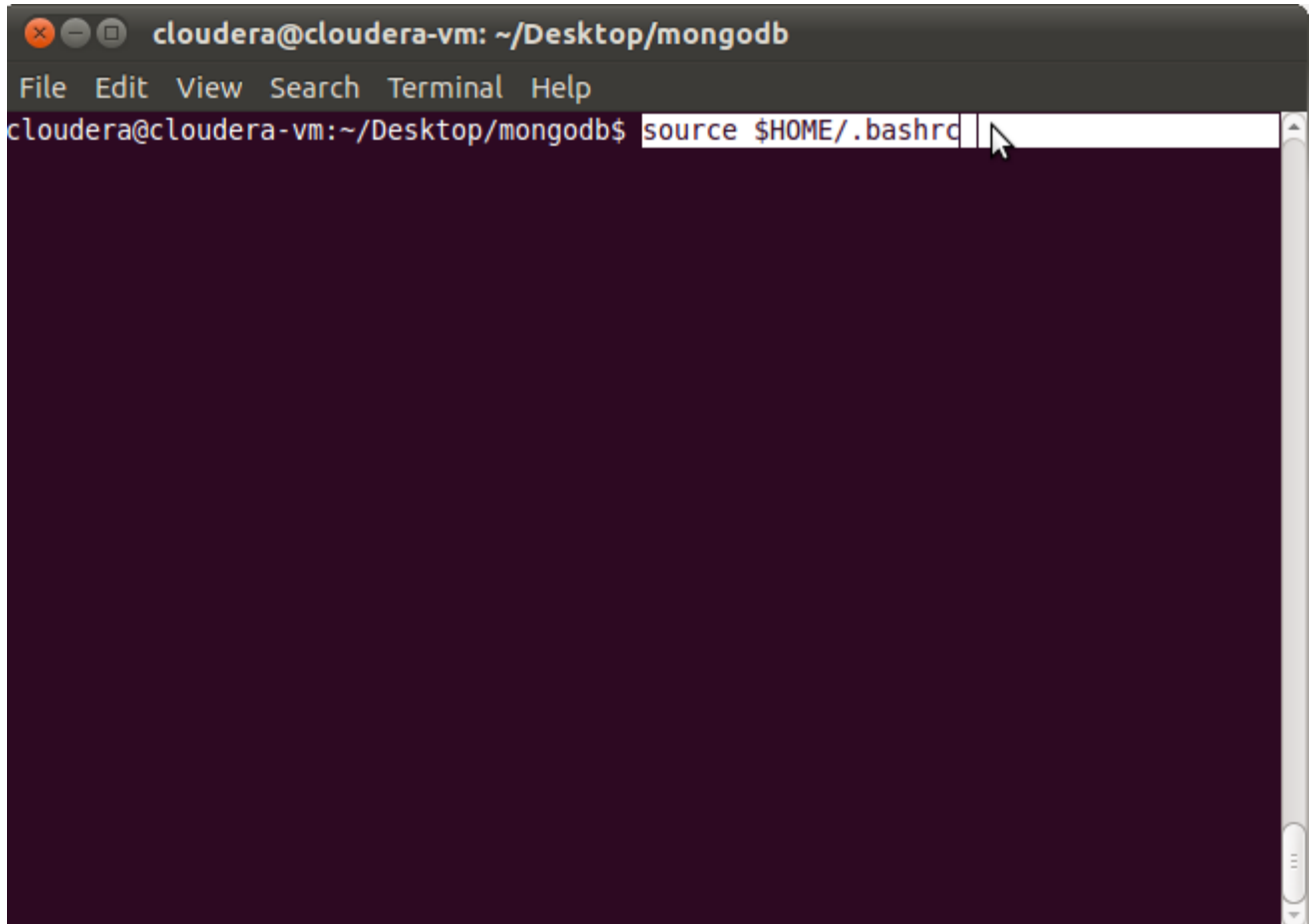
```

Save it

Step 9: To make changes in the .bashrc file. We need to update this file.

We have a source command, to make changes in the file

\$ source \$HOME/.bashrc



```

cloudera@cloudera-vm: ~/Desktop/mongodb
File Edit View Search Terminal Help
cloudera@cloudera-vm:~/Desktop/mongodb$ source $HOME/.bashrc
  
```

Step 10: Start mongodb server

First go to the mongodb directory

\$ cd /home/cloudera/Desktop/mongodb

\$ bin/mongod - -dbpath /data/db

```

cloudera@cloudera-vm: ~/Desktop/mongodb
File Edit View Search Terminal Help
cloudera@cloudera-vm:~/Desktop$ cd mongodb
cloudera@cloudera-vm:~/Desktop/mongodb$ bin/mongod --dbpath /data/db

```

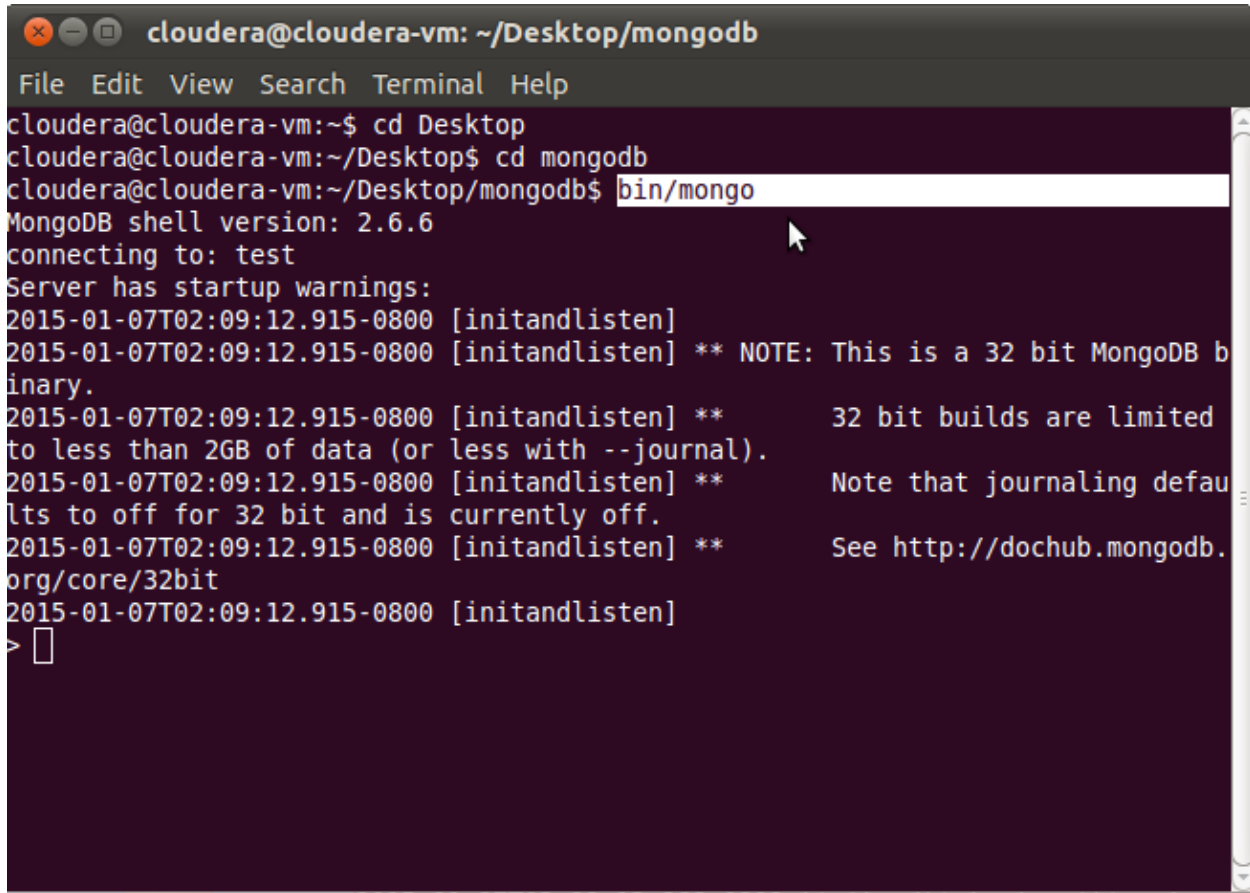
```

cloudera@cloudera-vm: ~/Desktop/mongodb
File Edit View Search Terminal Help
2015-01-07T02:09:12.915-0800 [initandlisten] MongoDB starting : pid=3219 port=27017 dbpath=/data/db 32-bit host=cloudera-vm
2015-01-07T02:09:12.915-0800 [initandlisten]
2015-01-07T02:09:12.915-0800 [initandlisten] ** NOTE: This is a 32 bit MongoDB binary.
2015-01-07T02:09:12.915-0800 [initandlisten] **      32 bit builds are limited to less than 2GB of data (or less with --journal).
2015-01-07T02:09:12.915-0800 [initandlisten] **      Note that journaling defaults to off for 32 bit and is currently off.
2015-01-07T02:09:12.915-0800 [initandlisten] **      See http://dochub.mongodb.org/core/32bit
2015-01-07T02:09:12.915-0800 [initandlisten]
2015-01-07T02:09:12.915-0800 [initandlisten] db version v2.6.6
2015-01-07T02:09:12.915-0800 [initandlisten] git version: 608e8bc319627693b04cc7da29ecc300a5f45a1f
2015-01-07T02:09:12.915-0800 [initandlisten] build info: Linux ip-10-123-131-43 2.6.18-194.el5xen #1 SMP Tue Mar 16 22:08:06 EDT 2010 i686 BOOST_LIB_VERSION=1_49
2015-01-07T02:09:12.915-0800 [initandlisten] allocator: system
2015-01-07T02:09:12.915-0800 [initandlisten] options: { storage: { dbPath: "/data/db" } }
2015-01-07T02:09:12.968-0800 [initandlisten] waiting for connections on port 27017

```

Step 11:Start mongod client

\$ bin/mongo



```
cloudera@cloudera-vm: ~/Desktop/mongodb
File Edit View Search Terminal Help
cloudera@cloudera-vm:~$ cd Desktop
cloudera@cloudera-vm:~/Desktop$ cd mongodb
cloudera@cloudera-vm:~/Desktop/mongodb$ bin/mongo
MongoDB shell version: 2.6.6
connecting to: test
Server has startup warnings:
2015-01-07T02:09:12.915-0800 [initandlisten]
2015-01-07T02:09:12.915-0800 [initandlisten] ** NOTE: This is a 32 bit MongoDB b
inary.
2015-01-07T02:09:12.915-0800 [initandlisten] **      32 bit builds are limited
to less than 2GB of data (or less with --journal).
2015-01-07T02:09:12.915-0800 [initandlisten] **      Note that journaling defau
lts to off for 32 bit and is currently off.
2015-01-07T02:09:12.915-0800 [initandlisten] **      See http://dochub.mongodb.
org/core/32bit
2015-01-07T02:09:12.915-0800 [initandlisten]
> 
```