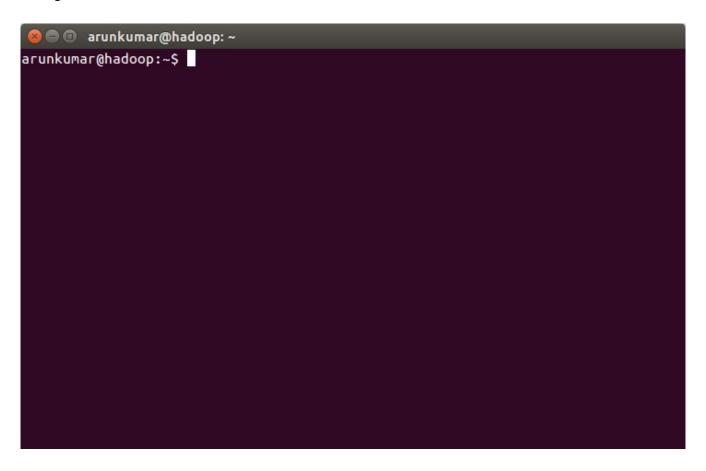
Hadoop Single node Pseudo distributed mode installation

1. Open Terminal



2. Install open SSH server

sudo apt-get install openssh-server

```
😵 🖨 🗊 arunkumar@hadoop: ~
arunkumar@hadoop:~$ sudo apt-get install openssh-server
[sudo] password for arunkumar:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libck-connector0 ncurses-term openssh-sftp-server python-requests
  python-urllib3 ssh-import-id
Suggested packages:
  rssh molly-guard monkeysphere
The following NEW packages will be installed:
 libck-connector0 ncurses-term openssh-server openssh-sftp-server
 python-requests python-urllib3 ssh-import-id
O upgraded, 7 newly installed, O to remove and O not upgraded.
Need to get 698 kB of archives.
After this operation, 3,832 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

3. Yes to continue. You will end up in a similar screen

```
🔊 🖃 🗊 🛮 arunkumar@hadoop: ~
Unpacking python-requests (2.2.1-1) ...
Selecting previously unselected package ssh-import-id.
Preparing to unpack .../ssh-import-id_3.21-0ubuntu1_all.deb ...
Unpacking ssh-import-id (3.21-0ubuntu1) ...
Processing triggers for man-db (2.6.7.1-1) ...
Processing triggers for ureadahead (0.100.0-16) ...
ureadahead will be reprofiled on next reboot
Processing triggers for ufw (0.34~rc-Oubuntu2) ...
Setting up libck-connector0:amd64 (0.4.5-3.1ubuntu2) ...
Setting up ncurses-term (5.9+20140118-1ubuntu1) ...
Setting up openssh-sftp-server (1:6.6p1-2ubuntu2) ...
Setting up openssh-server (1:6.6p1-2ubuntu2) ...
Creating SSH2 RSA key; this may take some time ...
Creating SSH2 DSA key; this may take some time ...
Creating SSH2 ECDSA key; this may take some time ...
Creating SSH2 ED25519 key; this may take some time ...
ssh start/running, process 3409
Setting up python-urllib3 (1.7.1-1build1) ...
Setting up python-requests (2.2.1-1) ...
Setting up ssh-import-id (3.21-0ubuntu1) ...
Processing triggers for libc-bin (2.19-0ubuntu6.3) ...
Processing triggers for ureadahead (0.100.0-16) ...
Processing triggers for ufw (0.34~rc-Oubuntu2) ...
arunkumar@hadoop:~$
```

4. Generate SSH Key pair

commands: ssh-keygen

Enter file in which to save the key (/home/arunkumar/.ssh/id_rsa): leave as default – do not enter anything

Enter passphrase (empty for no passphrase): leave it as empty as it required for automatic login

Enter same passphrase again: again no input required. Just enter.

```
😰 🛑 📵 arunkumar@hadoop: ~
arunkumar@hadoop:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/arunkumar/.ssh/id_rsa):
Created directory '/home/arunkumar/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/arunkumar/.ssh/id_rsa.
Your public key has been saved in /home/arunkumar/.ssh/id_rsa.pub.
The key fingerprint is:
b8:d9:08:f1:8e:c8:91:26:94:f9:01:c4:b9:4b:f5:2b arunkumar@hadoop
The key's randomart image is:
+--[ RSA 2048]----+
loo.
 0+.
 +0.0
arunkumar@hadoop:~$ ^C
arunkumar@hadoop:~$
```

5. Add the generated key to the authorized key file to use as a password-less login. cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys

```
🤰 🖨 📵 arunkumar@hadoop: ~
Generating public/private rsa key pair.
Enter file in which to save the key (/home/arunkumar/.ssh/id_rsa):
Created directory '/home/arunkumar/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/arunkumar/.ssh/id_rsa.
Your public key has been saved in /home/arunkumar/.ssh/id_rsa.pub.
The key fingerprint is:
b8:d9:08:f1:8e:c8:91:26:94:f9:01:c4:b9:4b:f5:2b arunkumar@hadoop
The key's randomart image is:
+--[ RSA 2048]----+
00.
 0+.
arunkumar@hadoop:~$ ^C
arunkumar@hadoop:~$ cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys
arunkumar@hadoop:~$
```

6. try logging in to localhost

ssh localhost

type 'yes' for the question about connection

Now you can login without a password-less

7. Now install java

sudo apt-get install openjdk-7-jdk

```
😰 🖃 💷 arunkumar@hadoop: ~
Last login: Sun Sep 14 19:32:48 2014 from localhost
arunkumar@hadoop:~$
arunkumar@hadoop:~$
arunkumar@hadoop:~$ sudo apt-get install openjdk-7-jdk
[sudo] password for arunkumar:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  ca-certificates-java fonts-dejavu-extra icedtea-7-jre-jamvm java-common
  libatk-wrapper-java libatk-wrapper-java-jni libbonobo2-0 libbonobo2-common
  libgconf2-4 libgif4 libgnome2-0 libgnome2-bin libgnome2-common
  libqnomevfs2-0 libqnomevfs2-common libice-dev libidl-common libidl0
  libnss3-1d liborbit-2-0 liborbit2 libpthread-stubs0-dev libsm-dev libx11-dev
  libx11-doc libxau-dev libxcb1-dev libxdmcp-dev libxt-dev openjdk-7-jre
  openjdk-7-jre-headless tzdata-java x11proto-core-dev x11proto-input-dev
  x11proto-kb-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre equivs libbonobo2-bin desktop-base libgnomevfs2-bin
  libgnomevfs2-extra gamin fam gnome-mime-data libice-doc libsm-doc libxcb-doc
  libxt-doc openjdk-7-demo openjdk-7-source visualvm icedtea-7-plugin
  sun-java6-fonts fonts-ipafont-gothic fonts-ipafont-mincho ttf-wqy-microhei
  ttf-wqy-zenhei ttf-telugu-fonts ttf-oriya-fonts ttf-kannada-fonts
  ttf-bengali-fonts
```

Yes to any question asked. Final screen after installation.

```
😰 🖃 💷 arunkumar@hadoop: ~
Adding debian:Sonera Class 2 Root CA.pem
Adding debian:Entrust.net_Premium_2048_Secure_Server_CA.pem
Adding debian:GeoTrust Universal CA.pem
Adding debian:NetLock Express =Class C= Root.pem
Adding debian:Swisscom Root EV CA 2.pem
Adding debian: America Online Root Certification Authority 2.pem
Adding debian:AddTrust_Qualified_Certificates_Root.pem
Adding debian:Entrust_Root_Certification_Authority.pem
Adding debian:Digital_Signature_Trust_Co._Global_CA_3.pem
Adding debian:CA Disig.pem
Adding debian:QuoVadis Root CA.pem
Adding debian:Equifax_Secure_Global_eBusiness_CA.pem
Adding debian:T-TeleSec GlobalRoot Class 3.pem
done.
Setting up libatk-wrapper-java-jni:amd64 (0.30.4-4) ...
Setting up libgnome2-bin (2.32.1-4ubuntu1) ...
Setting up libgnome2-0:amd64 (2.32.1-4ubuntu1) ...
Processing triggers for libc-bin (2.19-0ubuntu6.3) ...
Processing triggers for ca-certificates (20130906ubuntu2) ...
Updating certificates in /etc/ssl/certs... 0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d....
done.
done.
arunkumar@hadoop:~$
```

8. check the java version

```
e arunkumar@hadoop:~
arunkumar@hadoop:~
arunkumar@hadoop:~$ java -version
java version "1.7.0_65"

OpenJDK Runtime Environment (IcedTea 2.5.1) (7u65-2.5.1-4ubuntu1~0.14.04.2)

OpenJDK 64-Bit Server VM (build 24.65-b04, mixed mode)
arunkumar@hadoop:~$

■
```

10. Now its the time to download hadoop. I am going to install hadoop 1.2.0

Download a stable version from the link:

http://archive.apache.org/dist/hadoop/core/hadoop-1.2.0/

11. You can also use command line to download the file.

sudo wget http://archive.apache.org/dist/hadoop/core/hadoop-1.2.0/hadoop-1.2.0-bin.tar.gz

```
arunkumar@hadoop:~
arunkumar@hadoop:~
arunkumar@hadoop:~$ sudo wget http://archive.apache.org/dist/hadoop/core/hadoop-1.2.0/hadoop-1.2.0-bin.tar.gz
--2014-09-14 19:52:42-- http://archive.apache.org/dist/hadoop/core/hadoop-1.2.0/hadoop-1.2.0-bin.tar.gz
Resolving archive.apache.org (archive.apache.org)... 192.87.106.229, 140.211.11.
131, 2001:610:1:80bc:192:87:106:229
Connecting to archive.apache.org (archive.apache.org)|192.87.106.229|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 37650688 (36M) [application/x-gzip]
Saving to: 'hadoop-1.2.0-bin.tar.gz'

0% [ ] 236,320 70.6KB/s eta 8m 53s
```

12. unzip the downloaded file

tar -zxvf hadoop-1.2.0-bin.tar.gz

```
😵 🖨 🗊 arunkumar@hadoop: ~
688]
arunkumar@hadoop:~$ tar -zxvf hadoop-1.2.0-bin.tar.gz
hadoop-1.2.0/
hadoop-1.2.0/.eclipse.templates/
hadoop-1.2.0/.eclipse.templates/.externalToolBuilders/
hadoop-1.2.0/.eclipse.templates/.launches/
hadoop-1.2.0/bin/
hadoop-1.2.0/c++/
hadoop-1.2.0/c++/Linux-amd64-64/
hadoop-1.2.0/c++/Linux-amd64-64/include/
hadoop-1.2.0/c++/Linux-amd64-64/include/hadoop/
hadoop-1.2.0/c++/Linux-amd64-64/lib/
hadoop-1.2.0/c++/Linux-i386-32/
hadoop-1.2.0/c++/Linux-i386-32/include/
hadoop-1.2.0/c++/Linux-i386-32/include/hadoop/
hadoop-1.2.0/c++/Linux-i386-32/lib/
hadoop-1.2.0/conf/
hadoop-1.2.0/contrib/
hadoop-1.2.0/contrib/datajoin/
hadoop-1.2.0/contrib/failmon/
hadoop-1.2.0/contrib/gridmix/
hadoop-1.2.0/contrib/hdfsproxy/
hadoop-1.2.0/contrib/hdfsproxy/bin/
```

13. type 'dir' and make sure the file is unzipped correctly.

```
😰 🖃 💷 arunkumar@hadoop: ~
hadoop-1.2.0/sbin/hadoop-setup-applications.sh
hadoop-1.2.0/sbin/hadoop-setup-conf.sh
hadoop-1.2.0/sbin/hadoop-setup-hdfs.sh
hadoop-1.2.0/sbin/hadoop-setup-single-node.sh
hadoop-1.2.0/sbin/hadoop-validate-setup.sh
hadoop-1.2.0/sbin/update-hadoop-env.sh
hadoop-1.2.0/src/contrib/ec2/bin/cmd-hadoop-cluster
hadoop-1.2.0/src/contrib/ec2/bin/create-hadoop-image
hadoop-1.2.0/src/contrib/ec2/bin/delete-hadoop-cluster
hadoop-1.2.0/src/contrib/ec2/bin/hadoop-ec2
hadoop-1.2.0/src/contrib/ec2/bin/hadoop-ec2-env.sh
hadoop-1.2.0/src/contrib/ec2/bin/hadoop-ec2-init-remote.sh
hadoop-1.2.0/src/contrib/ec2/bin/image/create-hadoop-image-remote
hadoop-1.2.0/src/contrib/ec2/bin/image/ec2-run-user-data
hadoop-1.2.0/src/contrib/ec2/bin/launch-hadoop-cluster
hadoop-1.2.0/src/contrib/ec2/bin/launch-hadoop-master
hadoop-1.2.0/src/contrib/ec2/bin/launch-hadoop-slaves
hadoop-1.2.0/src/contrib/ec2/bin/list-hadoop-clusters
hadoop-1.2.0/src/contrib/ec2/bin/terminate-hadoop-cluster
arunkumar@hadoop:~$ dir
Desktop
          Dropbox
                             hadoop-1.2.0-bin.tar.gz
                                                      Public
Documents
          examples.desktop
                            Music
                                                      Templates
Downloads
          hadoop-1.2.0
                             Pictures
                                                      Videos
arunkumar@hadoop:~$
```

14. copy the file to user directory and rename to 'hadoop'

sudo cp -r hadoop-1.2.0 /usr/local/hadoop

```
😰 🖃 💷 arunkumar@hadoop: ~
hadoop-1.2.0/sbin/hadoop-setup-conf.sh
hadoop-1.2.0/sbin/hadoop-setup-hdfs.sh
hadoop-1.2.0/sbin/hadoop-setup-single-node.sh
hadoop-1.2.0/sbin/hadoop-validate-setup.sh
hadoop-1.2.0/sbin/update-hadoop-env.sh
hadoop-1.2.0/src/contrib/ec2/bin/cmd-hadoop-cluster
hadoop-1.2.0/src/contrib/ec2/bin/create-hadoop-image
hadoop-1.2.0/src/contrib/ec2/bin/delete-hadoop-cluster
hadoop-1.2.0/src/contrib/ec2/bin/hadoop-ec2
hadoop-1.2.0/src/contrib/ec2/bin/hadoop-ec2-env.sh
hadoop-1.2.0/src/contrib/ec2/bin/hadoop-ec2-init-remote.sh
hadoop-1.2.0/src/contrib/ec2/bin/image/create-hadoop-image-remote
hadoop-1.2.0/src/contrib/ec2/bin/image/ec2-run-user-data
hadoop-1.2.0/src/contrib/ec2/bin/launch-hadoop-cluster
hadoop-1.2.0/src/contrib/ec2/bin/launch-hadoop-master
hadoop-1.2.0/src/contrib/ec2/bin/launch-hadoop-slaves
hadoop-1.2.0/src/contrib/ec2/bin/list-hadoop-clusters
hadoop-1.2.0/src/contrib/ec2/bin/terminate-hadoop-cluster
arunkumar@hadoop:~$ dir
                             hadoop-1.2.0-bin.tar.gz
Desktop
          Dropbox
                                                      Public
Documents
          examples.desktop
                             Music
                                                      Templates
Downloads hadoop-1.2.0
                             Pictures
                                                      Videos
arunkumar@hadoop:~$ sudo cp -r hadoop-1.2.0 /usr/local/hadoop
arunkumar@hadoop:~$
```

15. Check the content of the file

dir /usr/local/hadoop

```
🔞 🛑 📵 arunkumar@hadoop: ~
arunkumar@hadoop:~$ dir /usr/local/hadoop
             hadoop-ant-1.2.0.jar
                                           hadoop-tools-1.2.0.jar
                                                                   NOTICE.txt
build.xml
             hadoop-client-1.2.0.jar
                                           ivy
                                                                   README.txt
             hadoop-core-1.2.0.jar
C++
                                           ivy.xml
                                                                   sbin
CHANGES.txt hadoop-examples-1.2.0.jar
                                           lib
                                                                   share
conf
             hadoop-minicluster-1.2.0.jar
                                           libexec
                                                                   SCC
contrib
             hadoop-test-1.2.0.jar
                                           LICENSE.txt
                                                                   webapps
arunkumar@hadoop:~$
```

16. Add the HOME location (local HADOOP directory) to the PATH variable in bashrc file.

sudo vi \$HOME/.bashrc

Add the below lines at the end of the file

export HADOOP_PREFIX=/usr/local/hadoop export PATH=\$PATH:\$HADOOP_PREFIX/bin

17. Execute the bash once to make the changes in bashrc

exec bash

```
😑 💷 arunkumar@hadoop: ~
# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.
if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
 if [ -f /usr/share/bash-completion/bash_completion ]; then
    . /usr/share/bash-completion/bash_completion
  elif [ -f /etc/bash_completion ]; then
 . /etc/bash_completion
fi
export HADOOP_PREFIX=/usr/local/hadoop
export PATH=$PATH:$HADOOP_PREFIX/bin
arunkumar@hadoop:~$ exec bash
```

18. check the \$PATH for updated path

\$PATH

```
😰 🖃 💷 arunkumar@hadoop: ~
# See /usr/share/doc/bash-doc/examples in the bash-doc package.
if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
 if [ -f /usr/share/bash-completion/bash_completion ]; then
    . /usr/share/bash-completion/bash_completion
  elif [ -f /etc/bash_completion ]; then
    . /etc/bash_completion
  fi
export HADOOP_PREFIX=/usr/local/hadoop
export PATH=$PATH:$HADOOP PREFIX/bin
arunkumar@hadoop:~$ exec bash
arunkumar@hadoop:~$ $PATH
bash: /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/u
sr/local/games:/usr/local/hadoop/bin: No such file or directory
arunkumar@hadoop:~$ ^C
arunkumar@hadoop:~$
```

19. Now we can start configuring the hadoop. All the configuration files are located in the conf folder as shown below

dir /usr/local/hadoop/conf

```
🔊 🖃 🗊 🛮 arunkumar@hadoop: ~
arunkumar@hadoop:~$ dir /usr/local/hadoop/conf
capacity-scheduler.xml
                           hadoop-policy.xml
                                                   slaves
configuration.xsl
                           hdfs-site.xml
                                                   ssl-client.xml.example
                           log4j.properties
core-site.xml
                                                   ssl-server.xml.example
fair-scheduler.xml
                           mapred-queue-acls.xml taskcontroller.cfg
hadoop-env.sh
                           mapred-site.xml
                                                   task-log4j.properties
hadoop-metrics2.properties masters
arunkumar@hadoop:~$
```

20. we can setup java and disable IPV6. This can be achieved by modifying the hadoop-env.sh file.

sudo vi /usr/local/hadoop/conf/hadoop-env.sh

uncomment the exporting of JAVA_HOME variable:

export JAVA_HOME=/usr/lib/jvm/java-1.7.0-openjdk-amd64

```
😰 🖃 💷 arunkumar@hadoop: ~
# Set Hadoop-specific environment variables here.
# The only required environment variable is JAVA HOME. All others are
# optional. When running a distributed configuration it is best to
# set JAVA HOME in this file, so that it is correctly defined on
# remote nodes.
# The java implementation to use. Required.
export JAVA_HOME=/usr/lib/jvm/java-1.7.0-openjdk-amd64
# Extra Java CLASSPATH elements. Optional.
# export HADOOP_CLASSPATH=
# The maximum amount of heap to use, in MB. Default is 1000.
# export HADOOP_HEAPSIZE=2000
# Extra Java runtime options. Empty by default.
# export HADOOP OPTS=-server
# Command specific options appended to HADOOP_OPTS when specified
export HADOOP_NAMENODE_OPTS="-Dcom.sun.management.jmxremote_$HADOOP_NAMENODE_OPT
```

21. Disable ipv6

export HADOOP_OPTS=-Djava.net.preferIPv4Stack=true

```
🤰 🖨 📵 arunkumar@hadoop: ~
# Set Hadoop-specific environment variables here.
# The only required environment variable is JAVA HOME. All others are
# optional. When running a distributed configuration it is best to
# set JAVA HOME in this file, so that it is correctly defined on
# remote nodes.
# The java implementation to use. Required.
export JAVA_HOME=/usr/lib/jvm/java-1.7.0-openjdk-amd64
# Extra Java CLASSPATH elements. Optional.
# export HADOOP_CLASSPATH=
# The maximum amount of heap to use, in MB. Default is 1000.
# export HADOOP_HEAPSIZE=2000
# Extra Java runtime options. Empty by default.
export HADOOP_OPTS=-Djava.net.preferIPv4Stack=true
# Command specific options appended to HADOOP_OPTS when specified
export HADOOP_NAMENODE_OPTS="-Dcom.sun.management.jmxremote $HADOOP_NAMENODE_OPT
```

22. Configure the name node (core-site.xml)

sudo vi /usr/local/hadoop/conf/core-site.xml

Add the below property and values

```
<configuration>
<name>fs.default.name</name>
<value>hdfs://hadoop:10001</value>
</property>
<name>hadoop.tmp.dir</name>
<value>/usr/local/hadoop/tmp</value>
</property>
```

23. Configure the mapred-site.xml (job tracker)

sudo vi /usr/local/hadoop/conf/mapred-site.xml

```
<configuration>
<name>mapred.job.tracker</name>
<value>hadoop:10002</value>
</property>
</configuration>
```

```
arunkumar@hadoop: ~

c?xml version="1.0"?>

configuration>

configuration>
```

24. Create temporary directory for hadoop

sudo mkdir /usr/local/hadoop/tmp

25. change ownership and permission of the directory

sudo chown arunkumar /usr/local/hadoop/tmp sudo chmod 777 /usr/local/hadoop/

```
arunkumar@hadoop:~

arunkumar@hadoop:~

arunkumar@hadoop:~$ sudo vi /usr/local/hadoop/conf/core-site.xml

arunkumar@hadoop:~$ sudo vi /usr/local/hadoop/conf/mapred-site.xml

arunkumar@hadoop:~$ sudo mkdir /usr/local/hadoop/tmp

arunkumar@hadoop:~$ ^C

arunkumar@hadoop:~$ arunkumar@hadoop:~$ sudo chown arunkumar /usr/local/hadoop/tmp

arunkumar@hadoop:~$ sudo chown arunkumar /usr/local/hadoop/tmp

arunkumar@hadoop:~$

arunkumar@hadoop:~$

arunkumar@hadoop:~$
```

26. Format namenode

hadoop namenode -format

```
😰 🖃 💷 arunkumar@hadoop: ~
14/09/14 20:47:11 INFO util.GSet: recommended=2097152, actual=2097152
14/09/14 20:47:11 INFO namenode.FSNamesystem: fsOwner=arunkumar
14/09/14 20:47:11 INFO namenode.FSNamesystem: supergroup=supergroup
14/09/14 20:47:11 INFO namenode.FSNamesystem: isPermissionEnabled=true
14/09/14 20:47:11 INFO namenode.FSNamesystem: dfs.block.invalidate.limit=100
14/09/14 20:47:11 INFO namenode.FSNamesystem: isAccessTokenEnabled=false accessK
eyUpdateInterval=0 min(s), accessTokenLifetime=0 min(s)
14/09/14 20:47:11 INFO namenode.FSEditLog: dfs.namenode.edits.toleration.length
= 0
14/09/14 20:47:11 INFO namenode.NameNode: Caching file names occuring more than
10 times
14/09/14 20:47:11 INFO common.Storage: Image file of size 115 saved in 0 seconds
14/09/14 20:47:11 INFO namenode.FSEditLog: closing edit log: position=4, editlog
=/usr/local/hadoop/tmp/dfs/name/current/edits
14/09/14 20:47:11 INFO namenode.FSEditLog: close success: truncate to 4, editlog
=/usr/local/hadoop/tmp/dfs/name/current/edits
14/09/14 20:47:11 INFO common.Storage: Storage directory /usr/local/hadoop/tmp/d
fs/name has been successfully formatted.
14/09/14 20:47:11 INFO namenode.NameNode: SHUTDOWN MSG:
SHUTDOWN_MSG: Shutting down NameNode at hadoop/127.0.1.1
**********************
arunkumar@hadoop:~$
```

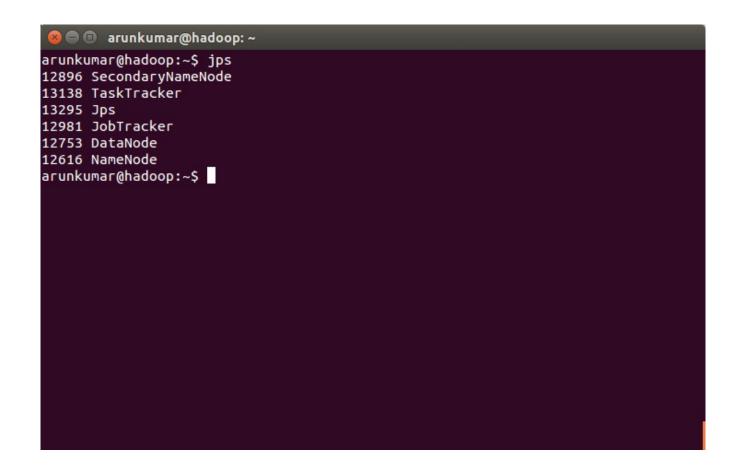
27. start the hadoop

start-all.sh

```
😵 🖨 🗊 arunkumar@hadoop: ~
arunkumar@hadoop:~$ start-all.sh
starting namenode, logging to /usr/local/hadoop/libexec/../logs/hadoop-arunkumar
-namenode-hadoop.out
localhost: starting datanode, logging to /usr/local/hadoop/libexec/../logs/hadoo
p-arunkumar-datanode-hadoop.out
localhost: starting secondarynamenode, logging to /usr/local/hadoop/libexec/../l
ogs/hadoop-arunkumar-secondarynamenode-hadoop.out
starting jobtracker, logging to /usr/local/hadoop/libexec/../logs/hadoop-arunkum
ar-jobtracker-hadoop.out
localhost: starting tasktracker, logging to /usr/local/hadoop/libexec/../logs/ha
doop-arunkumar-tasktracker-hadoop.out
arunkumar@hadoop:~$ jps
12896 SecondaryNameNode
13138 TaskTracker
13263 Jps
12981 JobTracker
12753 DataNode
12616 NameNode
arunkumar@hadoop:~$ clear
```

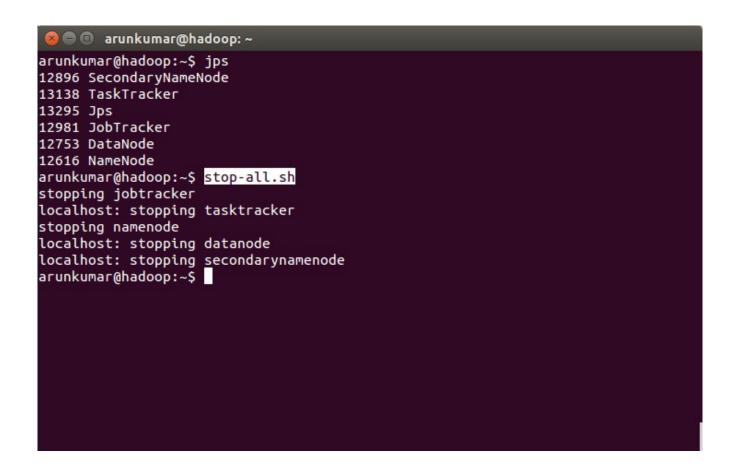
28. Check whether all the daemons are running correctly!

jps



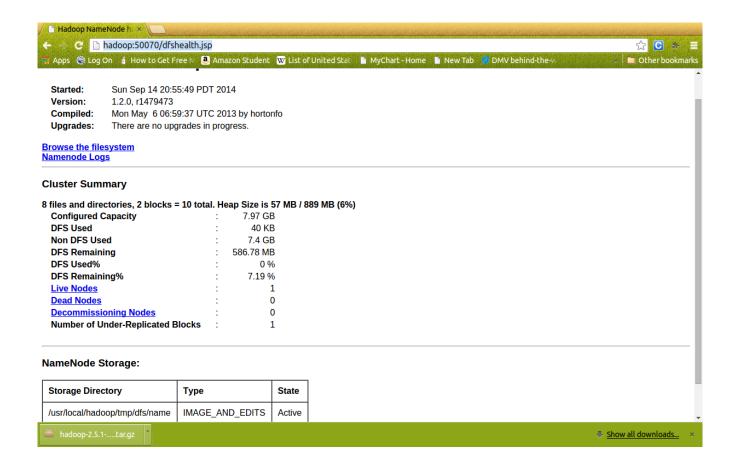
29. Stopping all the daemons

stop-all.sh



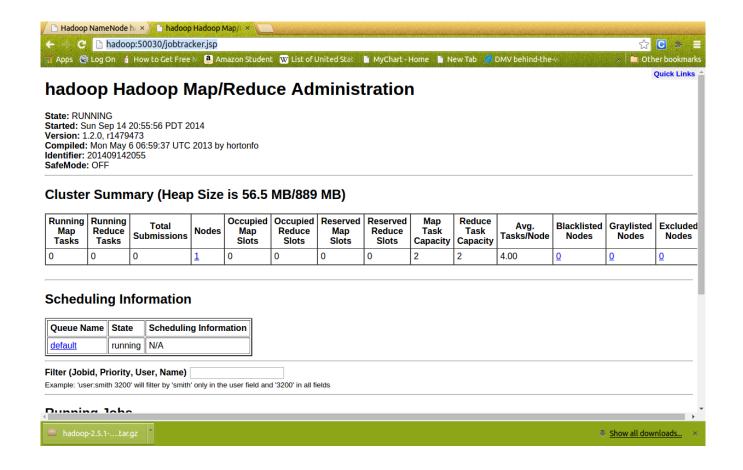
30. Now let see the web UI. Start all the daemons - start-all.sh

Namenode: http://hadoop:50070/dfshealth.jsp



31. UI for jobtracker – map reduce

http://hadoop:50030/jobtracker.jsp



32. UI for tasktracker

http://hadoop:50060/tasktracker.jsp

