1. Recommended Platform

OS: ubuntu 12.04

Hadoop: Apache Hadoop(hadoop-2.2.0 or above)

- 2. Install java
 - 2.1) Update the source list

command:-sudo apt-get update

2.2) install open jdk

command:-sudo apt-get install openjdk-6-jdk

- 3. Configure SSH (shown below in screenshot):-
 - 3.1) install open SSH Server-Client

command:-sudo apt-get install openssh-server openssh-client

3.2) Generate key value pair

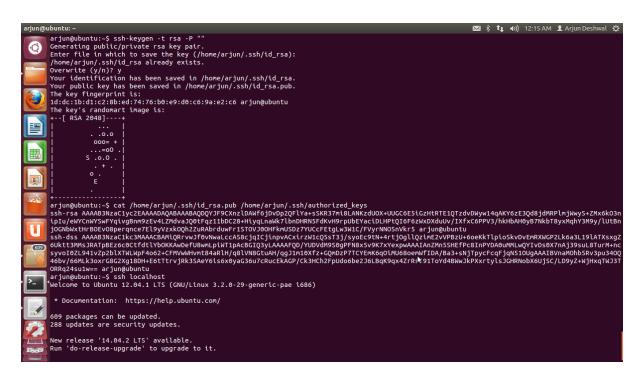
command:-ssh-keygen -t rsa -P ""

3.3)configure password-less SSH

command:-cat \$HOME/.ssh/id_rsa.pub >> \$HOME/.ssh/authorized_keys

3.4) check by SSH to localhost

command:-ssh localhost



4. Download Hadoop

download Apache hadoop

- 5. Install Hadoop
 - 5.1) The downloaded tar file is extracted.

command:- tar xzf hadoop-2.2.0.tar.gz

5.2) Goto the folder

command:- cd hadoop-2.2.0

6. Setup / Configure

- 6.1) Edit configuration file (hadoop-env.sh) and set JAVA_HOME. (Fig 1)
 - 6.1.1)open file (hadoop-env.sh) folder:-\$HOME/hadoop.2.2.0/etc/hadoop/hadoop-env.sh
 - 6.1.2)set path:-

command:-export JAVA_HOME=/usr/lib/jvm/java-6-openjdk-i386/

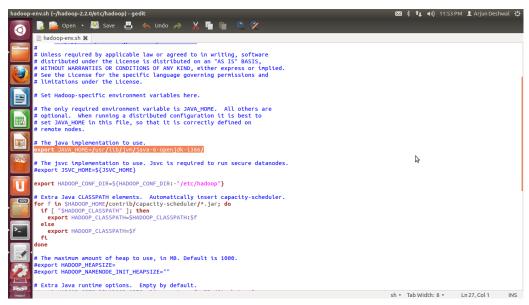


Fig 1

6.2) Edit configuration file (core-site.xml)(shown in Fig 2):

```
<configuration>
<name>fs.default.name</name>
<value>hdfs://localhost:9000</value>

</configuration>
```

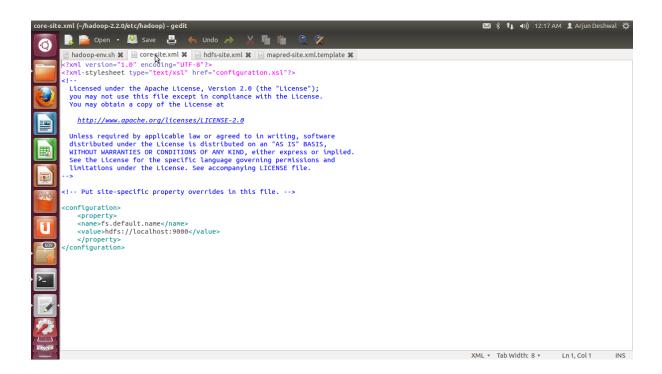


Fig 2

6.3) Edit configuration file (hdfs-site.xml) (shown in Fig 3)

<configuration>
<name>dfs.replication</name>
<value>1</value>

</configuration>

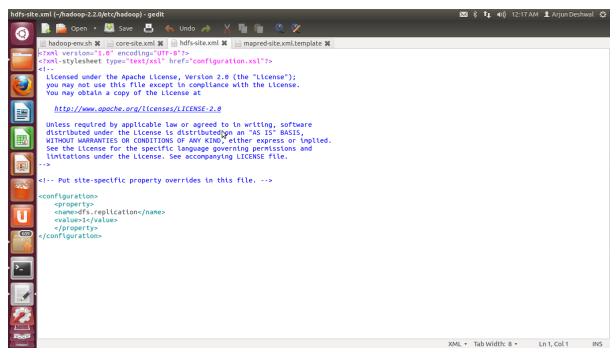


Fig 3

6.4) Edit configuration file (mapred-site.xml) (shown in Fig 4)

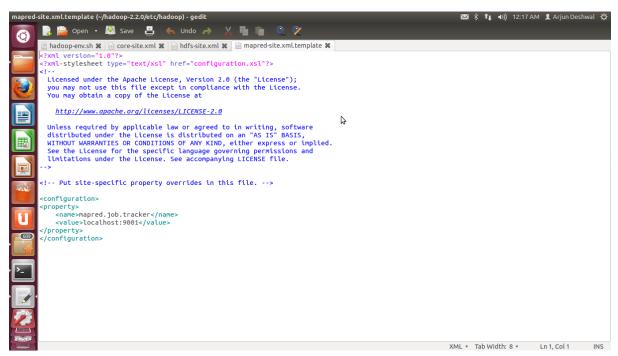
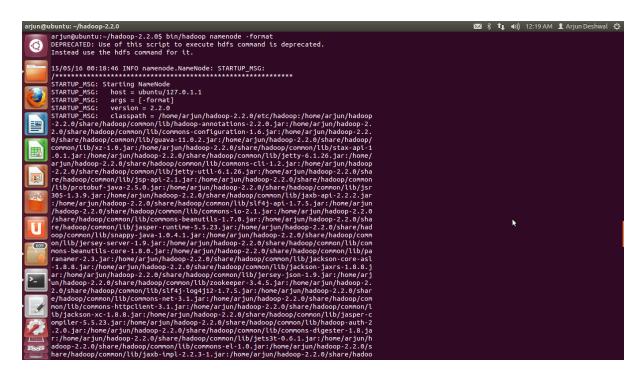


Fig 4

7. Start Hadoop cluster

7.1)Format Namenode(IMP :- this is done once when first time installing hadoop otherwise it will delete the data).

command:- bin/hadoop namenode -format



7.2)start Hadoop

command:-sbin/start-all.sh

8. Check hadoop cluster running

command:-jps

9. Stop hadoop cluster

command:-sbin/stop-all.sh

```
arjun@ubuntu:-/hadoop-2.2.05 sbin/start-all.sh

arjun@ubuntu:-/hadoop-2.2.05 sbin/start-all.sh

This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh

Startting namenose on [localhost]

Localhost: starting namenose, logging to /home/arjun/hadoop-2.2.0/logs/hadoop-arjun-namenode-ubuntu.out

Localhost: starting datanode, logging to /home/arjun/hadoop-2.2.0/logs/hadoop-arjun-secondarynamenode-ubuntu.out

Localhost: starting datanode, logging to /home/arjun/hadoop-2.2.0/logs/hadoop-arjun-secondarynamenode-ubuntu.out

Localhost: starting parendare, logging to /home/arjun/hadoop-2.2.0/logs/yarn-arjun-secondarynamenode-ubuntu.out

Localhost: starting parendare, logging to /home/arjun/hadoop-2.2.0/logs/yarn-arjun-nodenanager-ubuntu.out

Localhost: stoplunutu:-/hadoop-2.2.0/logs/yarn-arjun-resourcenanager-ubuntu.out

Localhost: stoplunutu:-/hadoop-2.2.0/logs/yarn-arjun-nodenanager-ubuntu.out

Localhost: stoplunutu:-/hadoop-2.2.0/logs/yarn-arjun-nodenanager

Localhost: stoplunutu:-/hadoop-2.2.0/logs/yarn-arjun-nodenanager

Localhost: stoplung datanode

Localhost: stoplung datanode

Localhost: stoplung datanode

Localhost: stoplung amenodes on [localhost]

Localhost: stoplung amenodes

Localhost: stoplung amenode

Localhost: stoplung amenode

Localhost: stoplung amenodes

Localhost: stoplung namenodes

Localhost: sto
```

WEB CONSOLE VIEW

Open Browser and type in the URL:-http://localhost:50070

