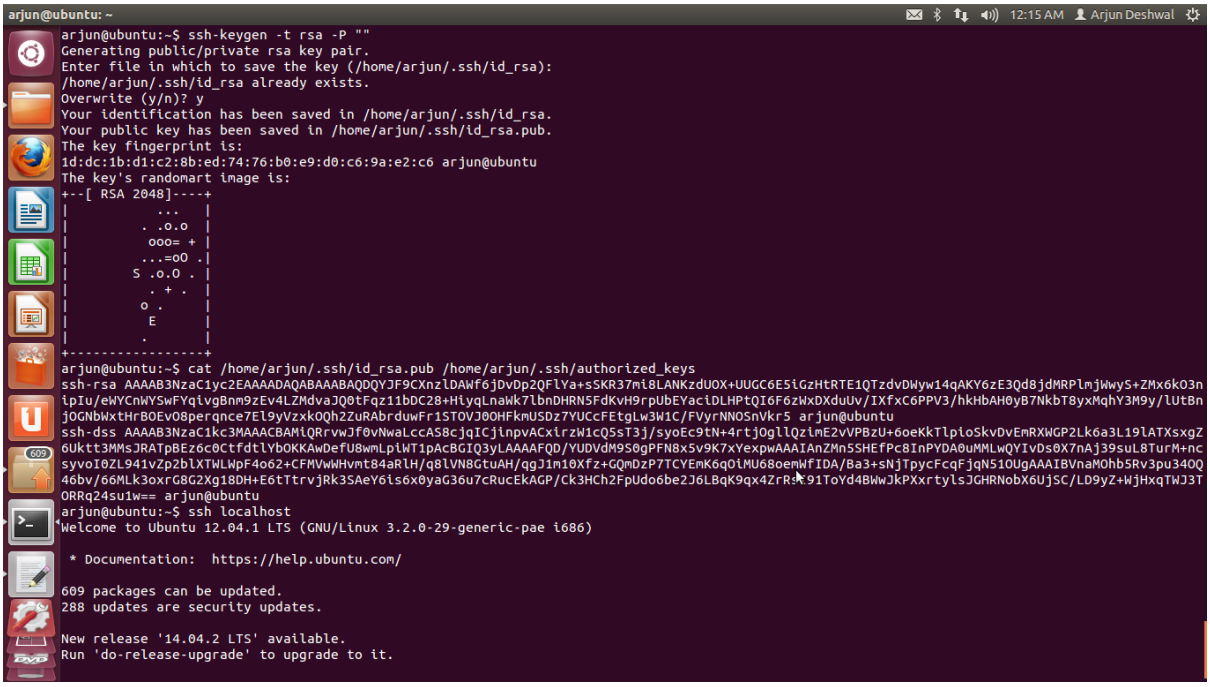
1. Recommended Platform

   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/

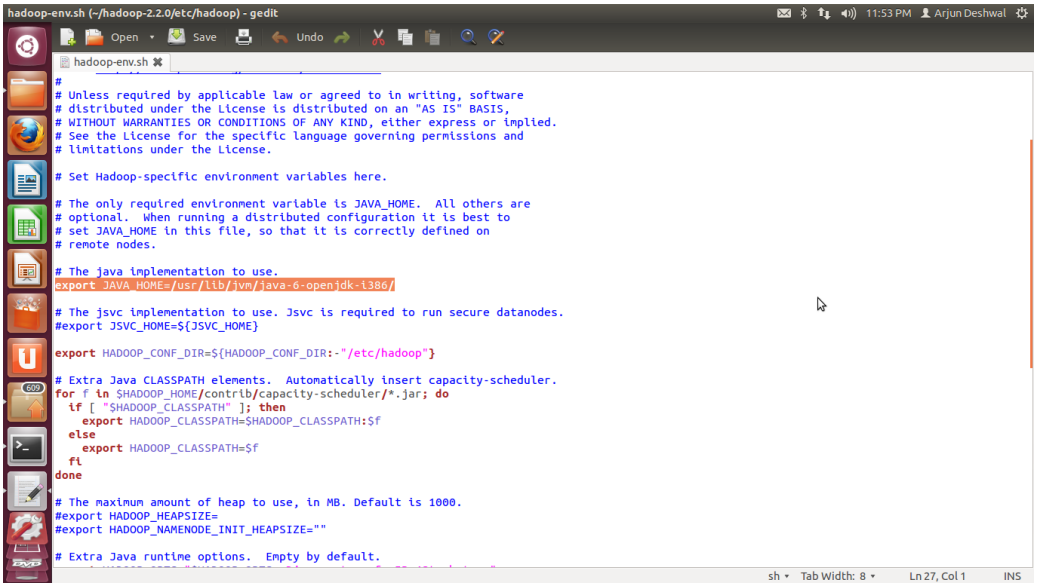


Fig 1

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

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

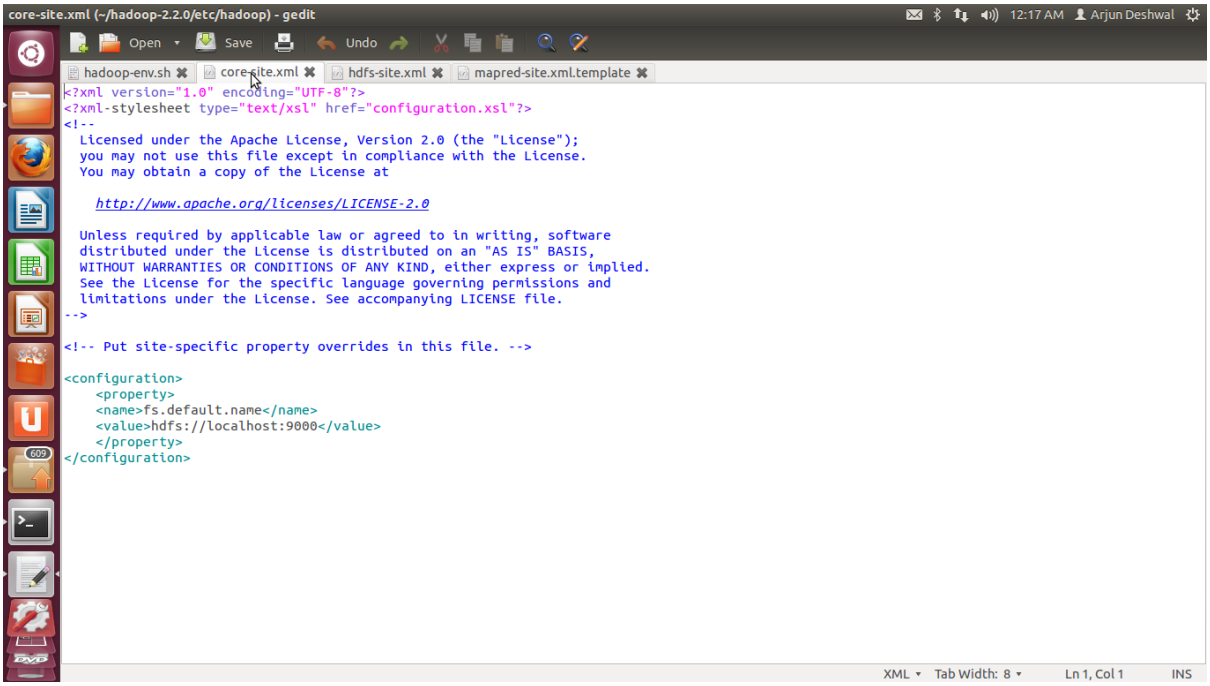


Fig 2

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

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

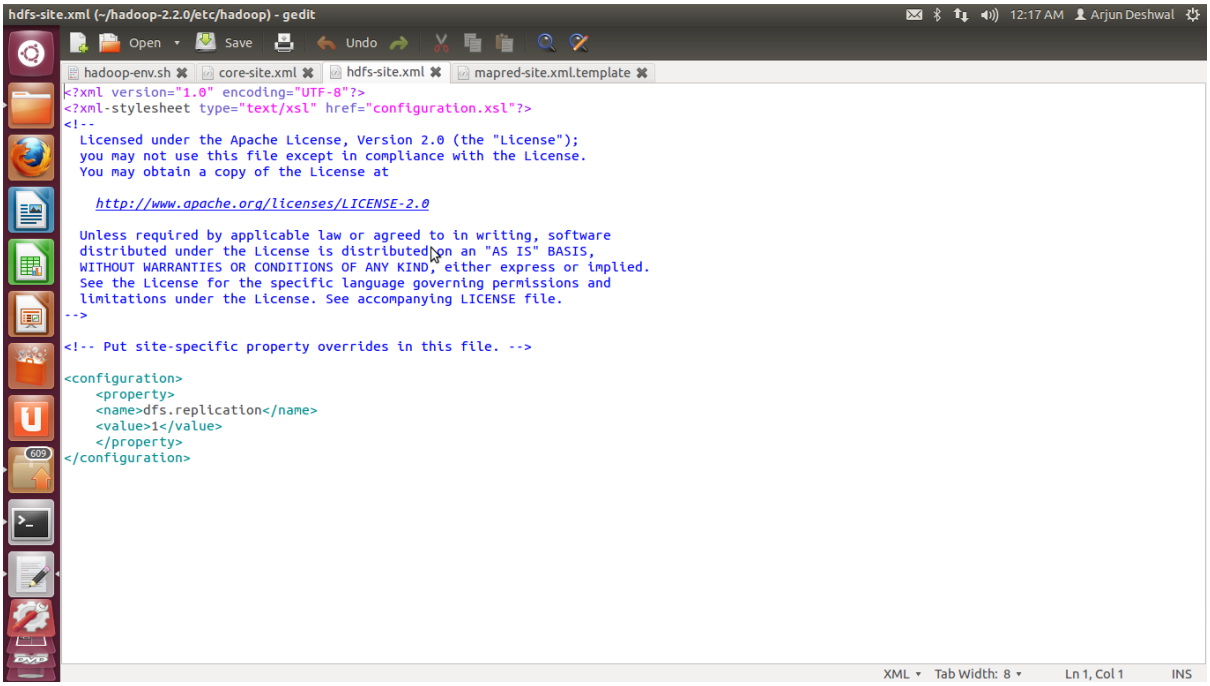


Fig 3

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

```
<configuration>
<property>
<name>mapred.job.tracker</name>
<value>localhost:9001</value>
</property>
</configuration>
```

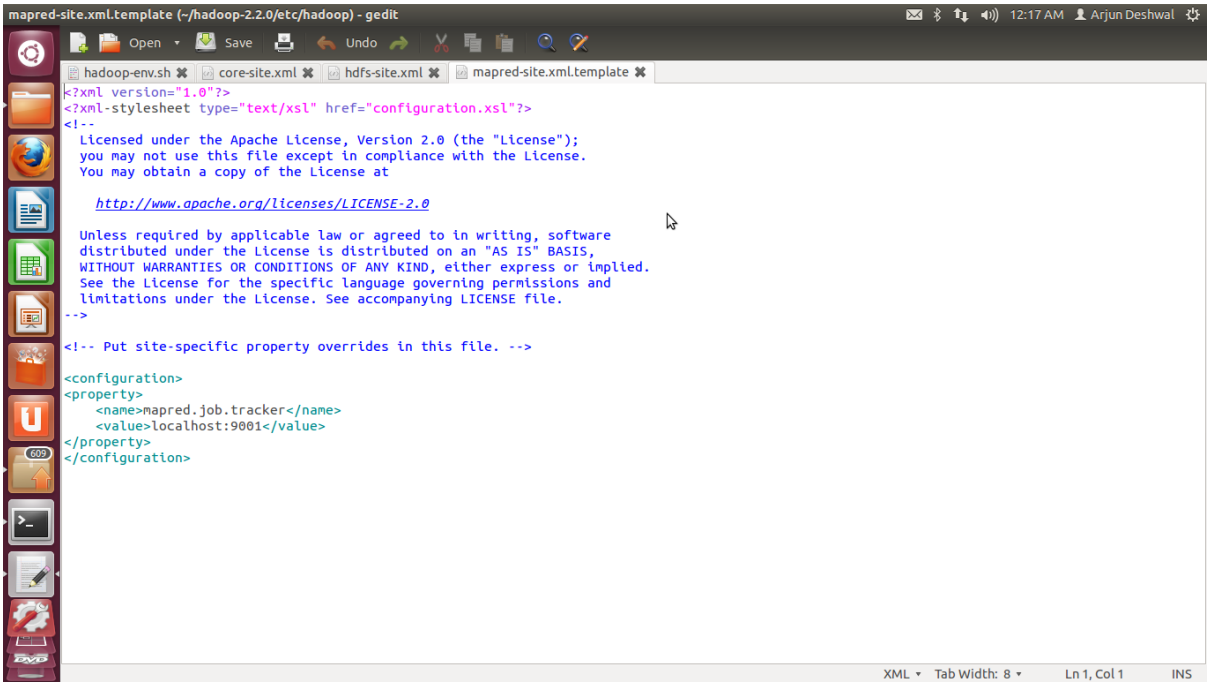
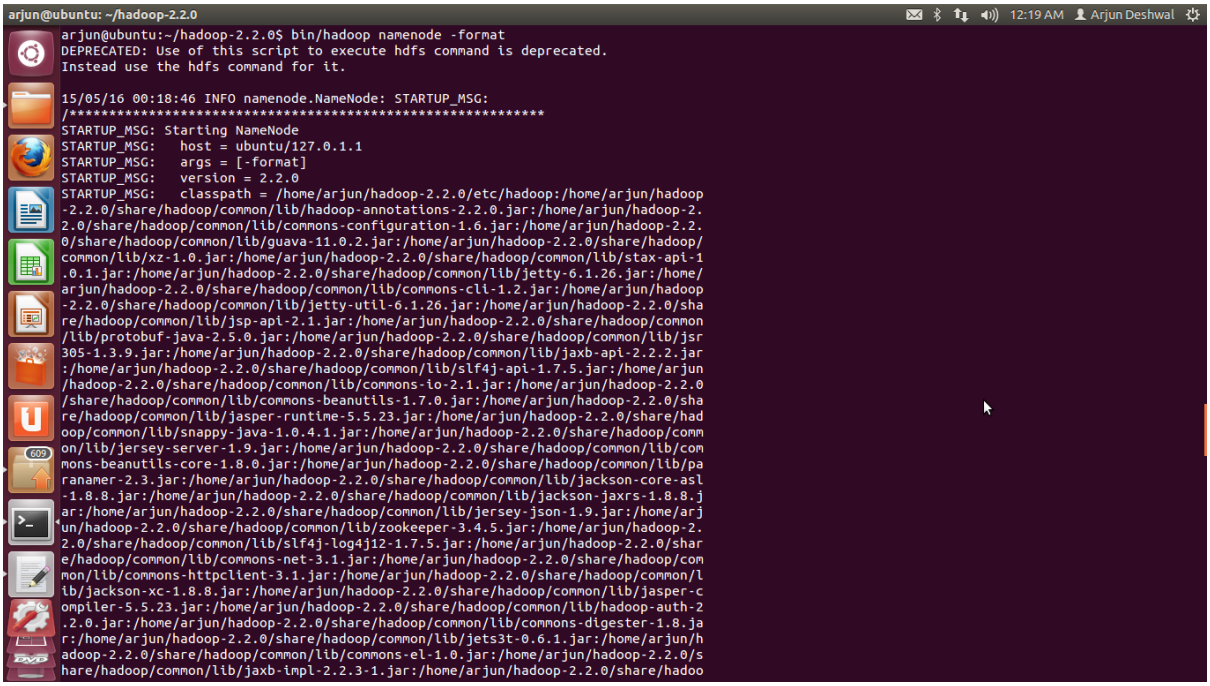


Fig 4

7. Start Hadoop cluster

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

   command:- bin/hadoop namenode -format



   7.2)start Hadoop

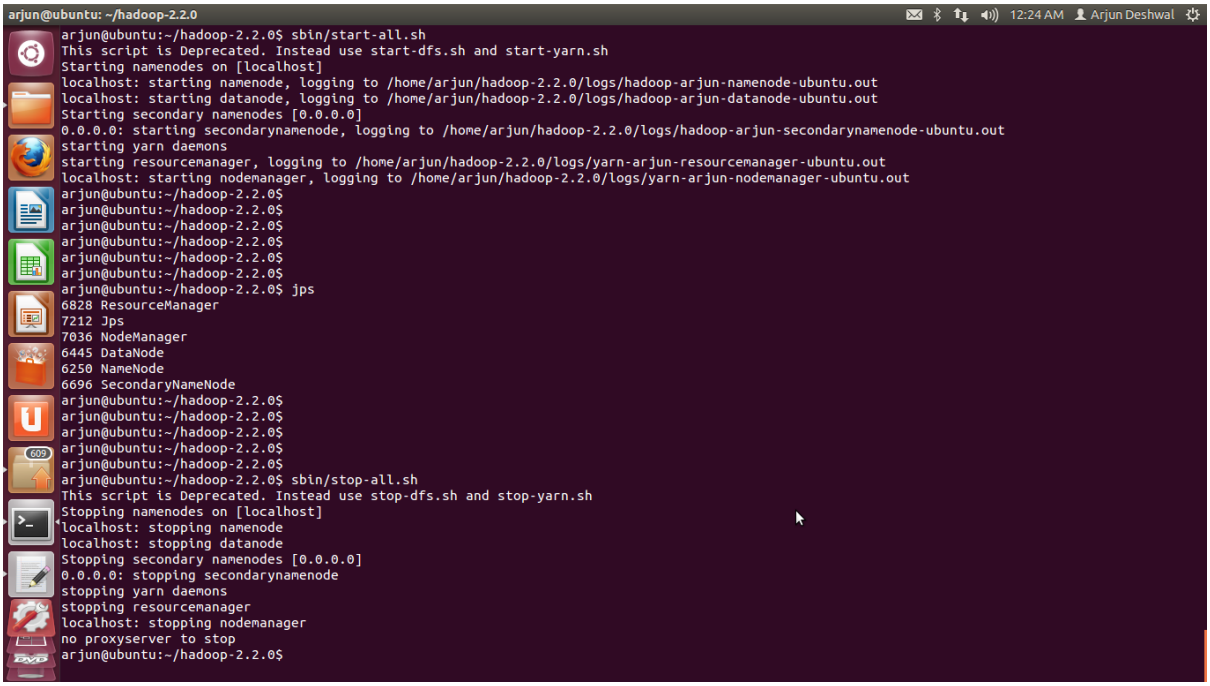
   command:-sbin/start-all.sh

8. Check hadoop cluster running

   command :-jps

9. Stop hadoop cluster

   command:-sbin/stop-all.sh



WEB CONSOLE VIEW

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