**Single Node Installation**

:~$sudo apt-get update // On Ubuntu machine

:~$ssh-keygen

Your identification has been saved in /home/ubuntu/.ssh/id\_rsa.

Your public key has been saved in /home/ubuntu/.ssh/id\_rsa.pub.

:~$ ls –a (To see hidden files)

**.ssh** will contain your key.

Two keys will be generated as below

**id\_rsaid\_rsa.pub**

Now you have to append id\_rsa.pub key in authorized\_keys file

* Cat id\_rsa.pub>>authorized\_keys
* Cat authorized\_keys to see if key is successfully added in auth file.

----------\*\*downloading and installing java (Hadoop requires a working Java 1.6+)\*\*--------

sudo apt-get install openjdk-7-jdk -y

~$ java –version

To check installed java version.

-----------------------------\*\*downloading hadoop\*\*------------------------

wget https://archive.apache.org/dist/hadoop/core/hadoop-1.2.1/hadoop-1.2.1.tar.gz

tar -xzvf hadoop-1.2.1.tar.gz / to extract archive file

sudo mv hadoop-1.2.1 /usr/local/hadoop

---------------------------\*\*configuring bashrclinuxenv setup\*\*---------------

nano ~/.bashrc

export HADOOP\_PREFIX=/usr/local/hadoop/

export PATH=$PATH:$HADOOP\_PREFIX/bin

export JAVA\_HOME=/usr/lib/jvm/java-7-openjdk-amd64

export PATH=$PATH:$JAVA\_HOME

~$ source .bashrc

To update bashfile configuration

----\*\*setting hadoopenv\*\*------

nano /usr/local/hadoop/conf/**hadoop-env.sh**

export JAVA\_HOME=/usr/lib/jvm/java-7-openjdk-amd64

export HADOOP\_OPTS=-Djava.net.preferIPV4Stack=true

-------\*\*configuring xml's\*\*------

nano /usr/local/hadoop/conf/**core-site.xml**

<property>

<name>fs.default.name</name>

<value>hdfs://localhost:9000</value>

</property>

<property>

<name>hadoop.tmp.dir</name>

<value>/usr/local/hadoop/tmp</value>

</property>

nano /usr/local/hadoop/conf/**hdfs-site.xml**

<property>

<name>dfs.replication</name>

<value>1</value>

</property>

nano /usr/local/hadoop/conf/**mapred-site.xml**

<property>

<name>mapred.job.tracker</name>

<value>hdfs://localhost:9001</value>

</property>

----------\*\*making tmpdir\*\*---------

mkdir /usr/local/hadoop/tmp

-------------\*\*exec bash\*\*-------

exec bash

----------------\*\*formatting hadoopnamenode\*\*--------------

ssh localhost

yes

hadoopnamenode -format

---------------\*\*starting hadoop services(daemons)\*\*-------------------

start-all.sh

jps