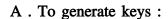
Single Node Installation



- 1. ((sudo apt-get update)) On Ubuntu machine
- 2. ((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.

- 3. Go to ((cd .ssh)) where keys stored
- 4 . ((:~\$ ls -a)) To see hidden files .ssh will contain your key.

Two keys will be generated as below

id_rsa & id_rsa.pub

- 5. Now you have to append id_rsa.pub key into authorized_keys file
 - ((Cat id_rsa.pub >> authorized_keys))
 - ((Cat authorized_keys))to see if key is successfully added in auth file.
- 6.----**downloading and installing java (Hadoop requires a working Java 1.6+)**----
 ((sudo apt-get install openjdk-8-jdk -y))

```
# (( java --version ))
```

To check installed java version.

B. Installing Hadoop

```
7 . -----**downloading hadoop**-----
(( wget <a href="https://archive.apache.org/dist/hadoop/core/hadoop-1.2.1/hadoop-1.2.1.tar.gz">https://archive.apache.org/dist/hadoop/core/hadoop-1.2.1/hadoop-1.2.1.tar.gz</a> ))
             -((tar -xzvf hadoop-1.2.1.tar.gz)) / to extract archive file
      to unzip (( du -h hadoop-1.2.1))
c: Moving hadoop:
8. move hadoop to local diractory ((sudo mv hadoop-1.2.1 /usr/local/hadoop ))
1. -----**configuring bashrclinuxenv setup**-----
(( nano .bashrc ))
export HADOOP_PREFIX=/usr/local/hadoop/
export PATH=$PATH:$HADOOP_PREFIX/bin
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export PATH=$PATH:$JAVA_HOME
~$(( source .bashrc )) To update bashfile configuration
2 ----**setting hadoopenv**-----
(( nano /usr/local/hadoop/conf/hadoop-env.sh ))
      export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
      export HADOOP_OPTS=-Djava.net.preferIPV4Stack=true
3 -----**configuring xml's**-----
       (( nano /usr/local/hadoop/conf/core-site.xml ))
cproperty>
<name>fs.default.name</name>
<value>hdfs://localhost:9000</value>
cproperty>
<name>hadoop.tmp.dir</name>
<value>/usr/local/hadoop/tmp</value>
```

```
_----12. config hdfs-----
((
      nano /usr/local/hadoop/conf/hdfs-site.xml ))
cproperty>
<name>dfs.replication</name>
<value>1</value>
13. confg mapred-----
   nano /usr/local/hadoop/conf/mapred-site.xml ))
cproperty>
<name>mapred.job.tracker</name>
<value>hdfs://localhost:9001
14. ----**making tmpdir**-----
mkdir /usr/local/hadoop/tmp
15. ----**exec bash**-----
(( exec bash ))
16. ----**formatting hadoopnamenode**-----
(( ssh localhost ))
yes
(( hadoop namenode -format ))
-----**starting hadoop services(daemons)**-----
(( start-all.sh ))
to see started services
(( jps ))
```