echo $JAVA_HOME

hostname

sudo su

whoami

sudo addgroup hadoop

sudo adduser hduser

sudo adduser hduser hadoop

sudo visudo

hduser ALL=(ALL) ALL

…………………………. Logout and Login to hduser …………………………………………………………….

sudo apt-get install openssh-server

ssh-keygen

cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys

chmod 700 ~/.ssh/authorized_keys

sudo /etc/init.d/ssh restart

ssh localhost

sudo vim /etc/sysctl.conf

disable ipv6

net.ipv6.conf.all.disable_ipv6 = 1

net.ipv6.conf.default.disable_ipv6 = 1

net.ipv6.conf.lo.disable_ipv6 = 1

cat /proc/sys/net/ipv6/conf/all/disable_ipv6

sudo mv ~/Desktop/hadoop-3.3.2.tar.gz /usr/local/

```
cd /usr/local

   sudo tar -xvf hadoop-3.3.2.tar.gz

   sudo rm hadoop-3.3.2.tar.gz

   sudo ln -s hadoop-3.3.2 hadoop

   sudo chown -R hduser:hadoop hadoop-3.3.2

   sudo chmod 777 hadoop-3.3.2
```

```
sudo vim /usr/local/hadoop/etc/hadoop/hadoop-env.sh
```

Press insert button and then copy. Then press ESC. Click Shift + : and then type wq and enter.

```
export HADOOP_OPTS=-Djava.net.preferIPv4Stack=true

export HADOOP_HOME_WARN_SUPPRESS="TRUE"

export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64/jre/
```

```
vim ~/.bashrc
```

Press insert button and then copy. Then press ESC. Click Shift + : and then type wq and enter.

```
export HADOOP_HOME=/usr/local/hadoop

export HADOOP_MAPRED_HOME=${HADOOP_HOME}

export HADOOP_COMMON_HOME=${HADOOP_HOME}

export HADOOP_HDFS_HOME=${HADOOP_HOME}

export HADOOP_YARN_HOME=${HADOOP_HOME}

export HADOOP_CONF_DIR=${HADOOP_HOME}/etc/hadoop
```

```
# Native Path

export HADOOP_COMMON_LIB_NATIVE_DIR=${HADOOP_PREFIX}/lib/native

export HADOOP_OPTS="-Djava.library.path=$HADOOP_PREFIX/lib"


# Set JAVA_HOME (we will also configure JAVA_HOME directly for Hadoop later on)

export JAVA_HOME=/usr/local/java/jdk

# Some convenient aliases and functions for running Hadoop-related commands

unaliasfs&> /dev/null

aliasfs="hadoop fs"

unaliashls&> /dev/null

aliashls="fs -ls"


export PATH=$PATH:$HADOOP_HOME/bin:$PATH:$JAVA_HOME/bin:$HADOOP_HOME/sbin
```

sudo vim /usr/local/hadoop/etc/hadoop/yarn-site.xml

Press insert button and then copy. Then press ESC. Click Shift + : and then type wq and enter.

Copy items in between <configuration> <\conficguration>


```
<property>

        <name>yarn.nodemanager.aux-services</name>

        <value>mapreduce_shuffle</value>

    </property>

    <property>

  <name>yarn.nodemanager.aux-services.mapreduce.shuffle.class</name>

  <value>org.apache.hadoop.mapred.ShuffleHandler</value>

        </property>
```

sudo vim /usr/local/hadoop/etc/hadoop/core-site.xml

```
<property>

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

        <value>/app/hadoop/tmp</value>

        <description>A base for other temporary directories.</description>

        </property>


 <property>

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

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

        <description>default host and port</description>

        </property>
```

sudo mkdir -p /app/hadoop/tmp

sudo chown hduser:hadoop -R /app/hadoop/tmp

sudo chmod 750 /app/hadoop/tmp

sudo vim /usr/local/hadoop/etc/hadoop/mapred-site.xml

```
 <property>

        <name>mapreduce.framework.name</name>
```

```xml
            <value>yarn</value>
        </property>
   <property>
            <name>mapreduce.jobhistory.address</name>
                  <value>localhost:10020</value>
                  <description>Host and port for Job History Server (default
                  0.0.0.0:10020)</description>
</property>
```

```
sudo mkdir -p /usr/local/hadoop_tmp/hdfs/namenode
sudo mkdir -p /usr/local/hadoop_tmp/hdfs/datanode
sudo chown hduser:hadoop -R /usr/local/hadoop_tmp/
```

```
sudo vim /usr/local/hadoop/etc/hadoop/hdfs-site.xml
```

Press insert button and then copy. Then press ESC. Click Shift + : and then type wq and enter.

Copy items in between <configuration> <\conficguration>

```xml
<property>
   <name>dfs.replication</name>
   <value>1</value>
 </property>
 <property>
   <name>dfs.namenode.name.dir</name>
   <value>file:/usr/local/hadoop_tmp/hdfs/namenode</value>
 </property>
 <property>
   <name>dfs.datanode.data.dir</name>
```

```
    <value>file:/usr/local/hadoop_tmp/hdfs/datanode</value>

  </property>
```

hadoop namenode -format

 start-dfs.sh   --starts NN,SNN,DN --Type Yes if anything asked for

start-yarn.sh   --starts NodeManager,ResourceManager

start-dfs.sh && start-yarn.sh --In a single line

start-all.sh

mr-jobhistory-daemon.sh start historyserver

mr-jobhistory-daemon.sh stop historyserver --If you want to stop

jps

hadoop fs -ls

hadoop fs -mkdir -p /user/hduser (Deprecated)

 hdfs dfs -mkdir -p /user/hduser   (Use this)

http://localhost:9870

http://localhost:8088

http://localhost:19888