EXP. 22: PERFORM THE BASIC CONFIGURATION SETUP FOR INSTALLINGHADOOP 2.X LIKE CREATING THE HDUSER AND SSH LOCALHOST

AIM: PERFORM THE BASIC CONFIGURATION SETUP FOR INSTALLINGHADOOP 2.X LIKE CREATING THE HDUSER AND SSH LOCALHOST

PROCEDURE:

Step 1 – System Update

\$ sudo apt-get update

Step 2 – Install Java and Set JAVA HOME

//This first thing to do is to setup the webupd8 ppa on your system. Run the following command and proceed.

\$ sudo apt-add-repository ppa:webupd8team/java

\$ sudo apt-get update

//After setting up the ppa repository, update the package cache as well.

//Install the Java 8 installer

\$ sudo apt-get install oracle-java8-installer

/ After the installation is finished, Oracle Java is setup. Run the java command again to check the version and vendor.

[or]

\$ sudo apt-get install default-jdk

\$ java -version

Step 3 – Add a dedicated Hadoop user

\$ sudo addgroup hadoop

\$ sudo adduser --ingroup hadoop hduser

/ Add hduser to sudo user

group \$ sudo adduser hduser

sudo

Step 4 – Install SSH and Create Certificates

\$ sudo apt-get install ssh

\$ su hduser

```
$ ssh-keygen -t rsa -P ""
// Set Environmental variables
$ cat $HOME/.ssh/id rsa.pub >> $HOME/.ssh/authorized keys
Step 5 – Check if SSH works
$ ssh localhost
Step 6 - Install Hadoop
// Extract Hadoop-2.7.2
$ sudo tar xvzf hadoop-2.7.2.tar.gz
/ Create a folder 'hadoop' in /usr/local
$ sudo mkdir -p /usr/local/hadoop
/ Move the Hadoop folder to
/usr/local/hadoop $ sudo mv hadoop-2.7.2
/usr/local/hadoop
/ Assigning read and write access to Hadoop
folder $ sudo chown -R hduser:hadoop
/usr/local/hadoop
```

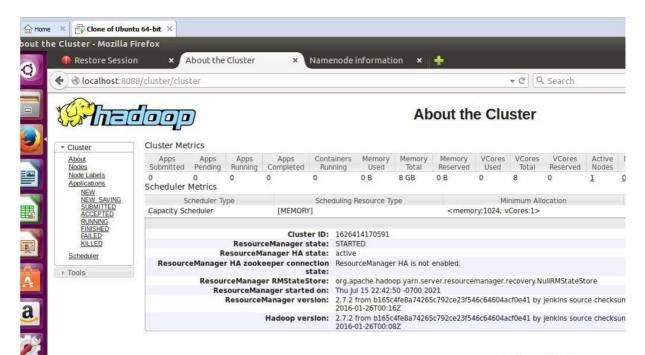
Implementation:

```
udhay@ubuntu:~$ sudo apt-get install default-jdk
[sudo] password for udhay:
Reading package lists... Done
Building dependency tree
Reading state information... Done
default-jdk is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 319 not upgraded.
udhay@ubuntu:~$ java -version
Picked up JAVA_TOOL_OPTIONS: -javaagent:/usr/share/java/jayatanaag.jar
java version "1.7.0_95"

OpenJDK 64-Bit Server VM (build 24.95-b01, mixed mode)
udhay@ubuntu:~$ ^C
udhay@ubuntu:~$ ^C
udhay@ubuntu:~$
```

```
udhay@ubuntu:~$ sudo apt-get install ssh
Reading package lists... Done
Building dependency tree
Reading state information... Done
ssh is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 319 not upgraded.
udhay@ubuntu:~$ su hduser
Password:
hduser@ubuntu:/home/udhay$
```

```
udhay@ubuntu:~$ su hduser
Password:
hduser@ubuntu:/home/udhay$ ssh-keygen -t rsa -P ""
Generating public/private rsa key pair.
Enter file in which to save the key (/home/hduser/.ssh/id_rsa):
/home/hduser/.ssh/id rsa already exists.
Overwrite (y/n)? y
Your identification has been saved in /home/hduser/.ssh/id_rsa.
Your public key has been saved in /home/hduser/.ssh/id_rsa.pub.
The key fingerprint is:
09:0f:15:f2:b2:b7:5e:11:1a:6c:d3:2f:c3:09:02:15 hduser@ubuntu
The key's randomart image is:
+---[RSA 2048]----+
     ..E.o.
      . = .
       = B o
        0 B +
        . S * .
hduser@ubuntu:/home/udhavS
hduser@ubuntu:/home/udhay$ cat $HOME/.ssh/id rsa.pub >> $HOME/.ssh/authorized keys
hduser@ubuntu:/home/udhay$ ssh localhost
Welcome to Ubuntu 15.04 (GNU/Linux 3.19.0-84-generic x86 64)
 * Documentation: https://help.ubuntu.com/
Last login: Thu Jul 15 22:00:14 2021 from localhost
hduser@ubuntu:~S
```



Activate Windows