EXP.NO:9

DATE:11/02/2023

PERFORM THE BASIC CONFIGURATION SETUP FOR INSTALLING HADOOP 2.X LIKE CREATING THE HDUSER AND SSH LOCALHOST

AIM:

To perform the basic configuration setup for installing hadoop 2.x like creating the houser 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

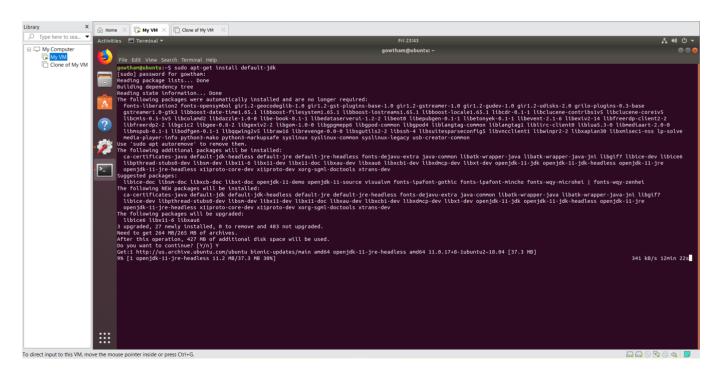
// Move the Hadoop folder to /usr/local/hadoop

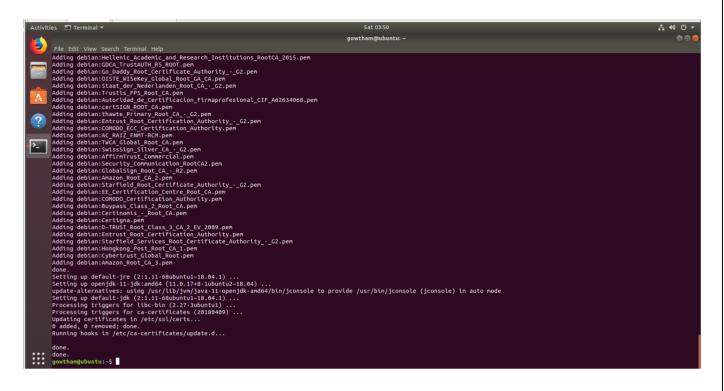
\$ sudo mv hadoop-2.7.2 /usr/local/hadoop

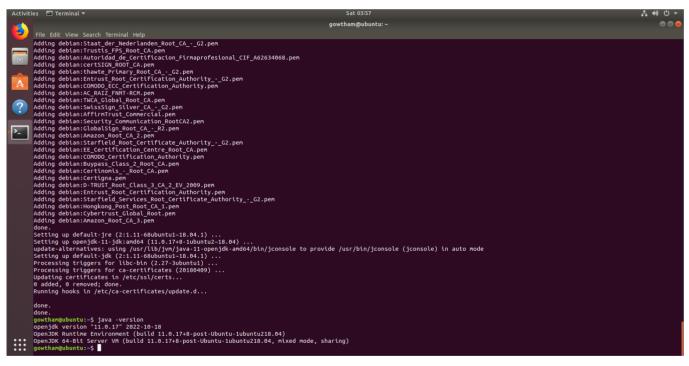
// Assigning read and write access to Hadoop folder

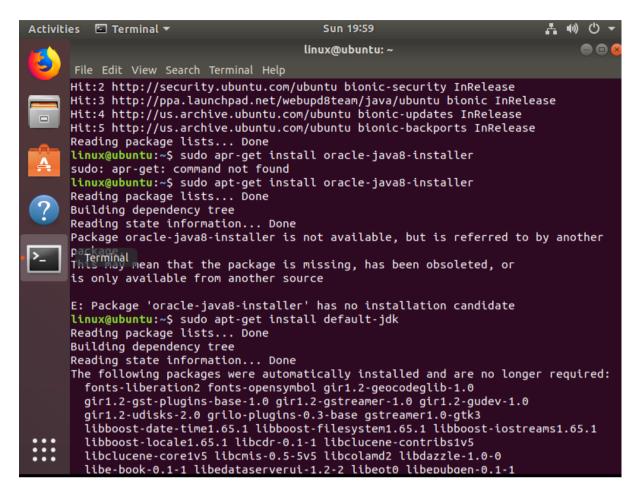
\$ sudo chown -R hduser:hadoop/usr/local/hadoop

Implementation:

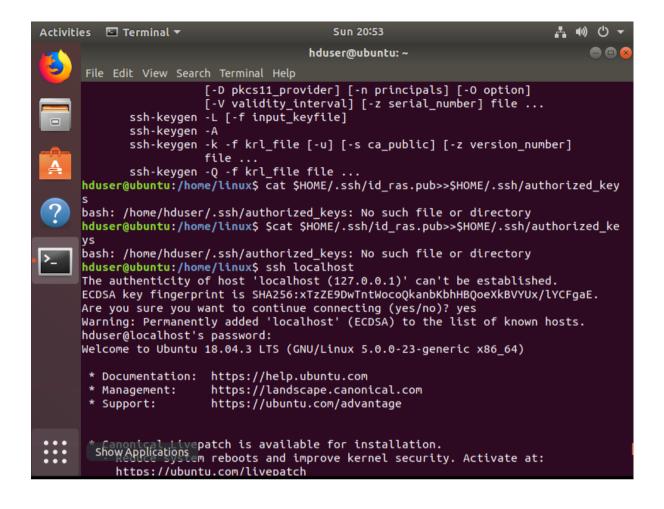


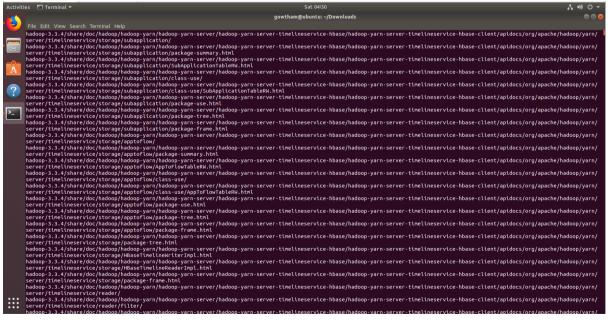






```
gowtham@ubuntu:~$ su hduser
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
hduser@ubuntu:/home/gowtham$
```





```
hadoop-3.3.4/share/doc/hadoop/hadoop-hdfs-nfs/images/h3.jpg
hduser@ubuntu:/home/gowtham/Downloads$ sudo mkdir -p /usr.local/hadoop
hduser@ubuntu:/home/gowtham/Downloads$ sudo mv hadoop-3.3.4 /usr/local/hadoop
hduser@ubuntu:/home/gowtham/Downloads$ sudo chown -R hduser/usr:hadoop /usr/local/hadoop
hduser@ubuntu:/home/gowtham/Downloads$ sudo chown -R hduser:hadoop /usr/local/hadoop
hduser@ubuntu:/home/gowtham/Downloads$
```

RESULT:

Hence perform the basic configuration setup for installing hadoop 2.x like creating the houser and ssh localhost is installed successfully.