

hadoop installation in psuedo mode – By Sasidhar M

Login into your Linux machine with root user. Then you can create user with your name.

step1:-- user creation in Linux

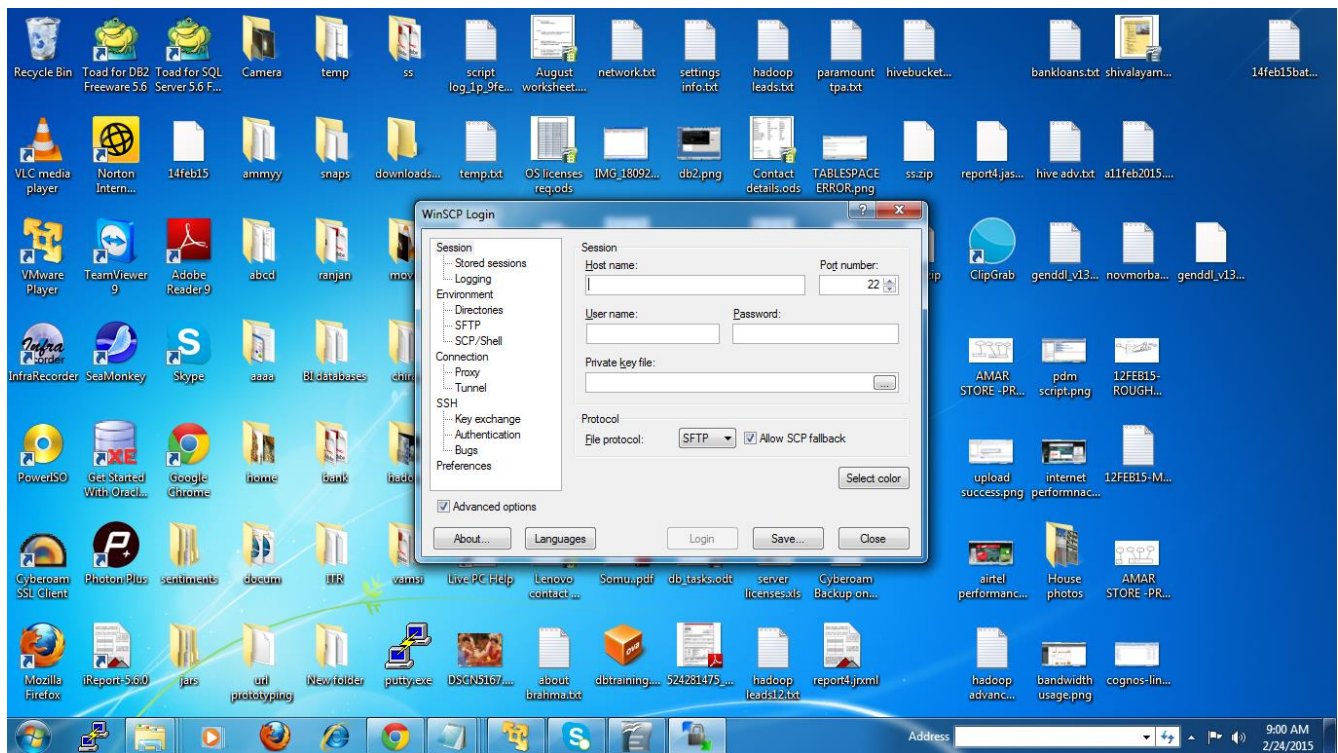
```
useradd username  
passwd username
```

Give user name and password any names. After completing this step logout from root user (system → logout from root). Then login with your new user. From Now onwards, we will do every thing in your user only.

Step2:-- java installation (ver 7,8...)

We have java software in windows machine, we have to install in linux machine. So, We have to copy software from windows to linux. for this purpose, we are using Winscp.

Winscp is a simple next, next.. finish installation in windows.



after installing it will display the following screen.

Here we have to enter

Hostname :-- Linux system ip. (We can check linux system ip by using ifconfig

command in linux system)
username : your username
Password : your password

After login, you will get 2 windows. Left side is windows system right side is linux system.

Left side, browse your jdk software, right side, come down and drag and drop the jdk software.

After drag and drop, it will ask copy. Click on copy.

Open linux system terminal.

Give ls command.

You can able to see jdk software.

chmod 777 jdk..... // for giving permissions to that file. Now if you give ls, file will display in green colour. Instead of you have to use TAB button.

tar -xzf jdk... // For Extracting software.

Then, We have to write Environmental variables in .bashrc or .bash_profile

```
gedit .bashrc
```

```
export JAVA_HOME=/home/xxx/jdk1.7.0_79
```

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

After writing these 2 lines, save & close

source .bashrc // For reflecting Environmental variables

```
echo $JAVA_HOME // For checking path in the variable
```

How to check java installed or not?

```
java -version
```

step3:-- hadoop installation

Copy the hadoop software from windows to linux by using winscp. Now, in winscp also you have to login with your username and password only.

```
chmod 777 had.... // for permissions
```

```
tar -xzf hado... /// For Extracting hadoop
```

Environmental variables:--

.bashrc or .bash_profile

```
gedit .bashrc
export HADOOP_HOME=/home/xxx/hadoop-1.0.3
export PATH=$PATH:$HADOOP_HOME/bin
export PATH=$PATH:$HADOOP_HOME/sbin
save & close
source .bashrc // For reflecting Environmental variables
echo $HADOOP_HOME // For checking the path in the variable
```

Step4:-- Configuration of hadoop

Go to hadoop-2.7.2 --> etc --> hadoop

```
core-site.xml
<property>
<name>fs.default.name</name>
<value>hdfs://localhost:6789</value>
</property>
```

Rename the mapred-site.xml.template to mapred-site.xml

```
<property>
<name>mapreduce.framework.name</name>
<value>yarn</value>
</property>
```

Yarn-site.xml

```
<property>
<name>yarn.nodemanager.aux-services</name>
<value>mapreduce_shuffle</value>
</property>
```

hdfs-site.xml

```
<property>
<name>dfs.replication</name>
<value>1</value>
</property>
<property>
<name>dfs.namenode.name.dir</name>
<value>file:/home/xxx/namedata</value>
</property>
```

```
<property>
  <name>dfs.datanode.data.dir</name>
  <value>file:/home/xxx/datadata</value>
</property>
<property>
  <name>mapred.map.speculative.execution</name>
  <value>true</value>
</property>
```

Step5:-- Formatting the namenode and starting the hadoop

hadoop namenode -format // for formatting the namenode

start-all.sh // for starting hadoop

jps // for view the list of services

It have to display 5 services

Namenode

Secondary name node

Resource manager

Node manager

Data node

stop-all.sh // for stoping the hadoop

Thanks

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If you have any doubts reach me @ sasi4hadoop@gmail.com