

1).bashrc

```
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export HADOOP_HOME=/usr/local/hadoop
export PATH=$PATH:$HADOOP_HOME/bin
export PATH=$PATH:$HADOOP_HOME/sbin
export HADOOP_MAPRED_HOME=$HADOOP_HOME
export HADOOP_COMMON_HOME=$HADOOP_HOME
export HADOOP_HDFS_HOME=$HADOOP_HOME
export YARN_HOME=$HADOOP_HOME
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/native
export HADOOP_OPTS="-Djava.library.path=$HADOOP_HOME/native"
```

2)hadoop-env.sh

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

3)core-site.xml

```
<property>
<name>fs.default.name</name>
<value>hdfs://localhost:9000</value>
</property>
```

4)hdfs-site.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>
```

5)yarn-site.xml

```
<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>
```

6)mapred-site.xml

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

Steps:

1. \$java -version
 2. \$sudo apt update
 3. \$sudo apt install default-jdk
 4. \$java -version
 5. \$sudo addgroup hadoop
 6. \$sudo adduser --ingroup hadoop hadoop1
 7. \$sudo adduser hadoop1 sudo //for adding hadoop1 into sudo
 8. \$sudo apt install openssh-server
 9. \$su – hadoop1 //change user
 10. \$ssh-keygen -t rsa -P ""
 11. \$cat \$HOME/.ssh/id_rsa.pub >> \$HOME/.ssh/authorized_keys
 12. \$ssh localhost
 13. \$exit
- after download of hadoop-2.9.0
14. \$cd /home/student/Desktop/
 15. \$sudo tar xvzf hadoop-2.9.0.tar.gz
 16. \$ls
 17. \$sudo mv hadoop-2.9.0 /usr/local/hadoop
 18. \$sudo chown -R hadoop1 /usr/local
 19. \$sudo gedit ~/.bashrc //add lines from 1.
 20. \$source ~/.bashrc

21. \$sudo gedit /usr/local/hadoop/etc/hadoop/hadoop-env.sh //from 2
22. \$sudo gedit /usr/local/hadoop/etc/hadoop/core-site.xml //from 3
23. \$sudo gedit /usr/local/hadoop/etc/hadoop/hdfs-site.xml //from 4
24. \$sudo gedit /usr/local/hadoop/etc/hadoop/yarn-site.xml //from 5
25. \$sudo cp /usr/local/hadoop/etc/hadoop/mapred-site.xml.template /usr/local/hadoop/mapred-site.xml
26. \$sudo gedit /usr/local/hadoop/mapred-site.xml //from 6
27. \$sudo mkdir -p /usr/local/hadoop_space
28. \$sudo mkdir -p /usr/local/hadoop_space/hdfs/namenode
29. \$sudo mkdir -p /usr/local/hadoop_space/hdfs/datanode
30. \$sudo chown -R hadoop1 /usr/local/hadoop_space
31. \$cd
32. \$hdfs namenode -format
33. \$start-dfs.sh
34. \$start-yarn.sh
35. \$jps

start-all.sh

stop-all.sh