**Single node cluster setup with hadoop2.0-**

vim /etc/sysconfig/network

clear

vim /etc/sysconfig/network-scripts/ifcfg-eth0

clear

vi /etc/udev/rules.d/70-persistent-net.rules

rpm -qa|grep -i kernel-devel

rpm -qa|grep -i gcc

clear

rpm -qa|grep -i dkms

yum update -y

yum localinstall jdk-7u80-linux-x64.rpm -y

rpm -qa|grep -i jdk

rpm -ql jdk-1.7.0\_80-fcs.x86\_64

alternatives --display java

alternatives --install /usr/bin/java java /usr/java/jdk1.7.0\_80/bin/java 210000

alternatives --display java

useradd -u 1001 -d /usr/local/hadoop -s /bin/bash -g hadoop hadoop

groupadd -g 1001 hadoop

useradd -u 1001 -d /usr/local/hadoop -s /bin/bash -g hadoop hadoop

cat /etc/passwd|grep hadoop

cat /etc/group|grep hadoop

groupadd hdfs

usermod -G hdfs hadoop

cat /etc/passwd |grep -i hadoop

cat /etc/group |grep -i hadoop

cd hadoop-2.7.3

ls -ls

cp -a \* /usr/local/hadoop

cd /usr/local/hadoop/

ls –ls

ssh-keygen

passwd hadoop

ssh-copy-id -i ~/.ssh/id\_rsa.pub hadoop@hadoop2

vim hadoop-env.sh

vim yarn-env.sh

vim core-site.xml

vim hdfs-site.xml

vim mapred-site.xml

vim yarn-site.xml

mkdir /data

cd data

cd data

mkdir -p dfs/nn

mkdir -p dfs/snn

ls -ls

cd dfs

ls -ls

cd ..

mkdir -p dfs/{dn1,dn2,dn3}

cd dfs/

ls -ls

cd ..

mkdir -p dfs/yarn/{local1,local2,log1,log2}

cd dfs/

ls -ls

chown -R hadoop:hadoop /data

hdfs namenode -format

hadoop fs -mkdir -p /var/log/hadoop-yarn/apps

hadoop fs 1777 -mkdir /tmp

hadoop fs -chmod -R 1777 /var/log/hadoop-yarn/apps

hadoop jar hadoop-mapreduce-examples-2.7.3.jar pi 1 1

**core-site.xml-**

<configuration>

<property>

<name>fs.defaultFS</name>

<value>hdfs://hadoop2.demo.lab:8020</value>

</property>

<property>

<name>hadoop.proxyuser.mapred.groups</name>

<value>\*</value>

</property>

<property>

<name>hadoop.proxyuser.mapred.hosts</name>

<value>\*</value>

</property>

</configuration>

**Hdfs-site.xml-**

<configuration>

<property>

<name>dfs.permissions.superusergroup</name>

<value>hadoop</value>

</property>

<property>

<name>dfs.namenode.name.dir</name>

<value>file:///data/dfs/nn</value>

</property>

<property>

<name>dfs.datanode.data.dir</name>

<value>file:///data/dfs/dn1,file:///data/dfs/dn2,file:///data/dfs/dn3</value>

</property>

<property>

<name>dfs.namenode.http-address</name>

<value>hadoop2.demo.lab:50070</value>

</property>

<property>

<name>dfs.webhdfs.enabled</name>

<value>true</value>

</property>

<property>

<name>dfs.replication</name>

<value>2</value>

</property>

<property>

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

<value>/usr/local/hadoop/tmp</value>

</property>

<property>

<name>dfs.namenode.secondary.http-address</name>

<value>hadoop2.demo.lab:50090</value>

</property>

<property>

<name>dfs.namenode.checkpoint.dir</name>

<value>file:///data/dfs/snn</value>

</property>

<property>

<name>dfs.namenode.checkpoint.edits.dir</name>

<value>file:///data/dfs/snn</value>

</property>

</configuration>

**Mapred-site.xml-**

<configuration>

<property>

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

<value>yarn</value>

</property>

</configuration>

**Yarn-site.xml-**

<configuration>

<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>

<property>

<name>yarn.app.mapreduce.am.staging-dir</name>

<value>/user</value>

</property>

<property>

<name>yarn.resourcemanager.hostname</name>

<value>hadoop2.demo.lab</value>

</property>

<property>

<description>Classpath for typical applications.</description>

<name>yarn.application.classpath</name>

<value>

$HADOOP\_CONF\_DIR,

$HADOOP\_COMMON\_HOME/\*,$HADOOP\_COMMON\_HOME/lib/\*,

$HADOOP\_HDFS\_HOME/\*,$HADOOP\_HDFS\_HOME/lib/\*,

$HADOOP\_MAPRED\_HOME/\*,$HADOOP\_MAPRED\_HOME/lib/\*,

$HADOOP\_YARN\_HOME/\*,$HADOOP\_YARN\_HOME/lib/\*

</value>

</property>

<property>

<name>yarn.nodemanager.local-dirs</name>

<value>file:///data/dfs/yarn/local1,file:///data/dfs/yarn/local2,</value>

</property>

<property>

<name>yarn.nodemanager.log-dirs</name>

<value>file:///data/dfs/yarn/logs1,file:///data/dfs/yarn/logs2</value>

</property>

<property>

<name>yarn.log.aggregation-enable</name>

<value>true</value>

</property>

<property>

<description>Where to aggregate logs</description>

<name>yarn.nodemanager.remote-app-log-dir</name>

<value>hdfs://hadoop2.demo.lab:8020/var/log/hadoop-yarn/apps</value>

</property>

</configuration>