**hadoop pseudo distributed mode installation**

1. Skip install vmware workstation (See My Video)
2. Skip install centOS (See My Video)
3. mkdir /tools ---->use to store some tools/softwares
4. mkdir /training ---->use to install some software
5. install JDK
6. then unzip and install, using follows commands:

tar -zvxf /tools/jdk-8u241-linux-x64.tar.gz -C /training/

1. check java path:

echo $JAVA\_HOME

1. set jdk enviroment：
   1. need to configure .bash\_profile file that its paths /root/:

vi ~/.bash\_profile

* 1. add this informations:

export JAVA\_HOME=/training/jdk1.8.0\_241

export JRE\_HOME=$JAVA\_HOME/jre

export CLASSPATH=.:$CLASSPATH:$JAVA\_HOME/lib:$JRE\_HOME/lib

export PATH=$PATH:$JAVA\_HOME/bin:$JRE\_HOME/bin;

* 1. make environment effects

source ~/.bash\_profile

* 1. check :---🡪 java –version

1. close firewalld service :

systemctl stop firewalld.service

systemctl disable firewalld.service

1. configure hostname:

hostnamectl --static set-hostname new\_Hostname (you can use any HostName, I suggest use like niit1, niit2, niit111)

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**二、Install Hadoop:**

1. upload hadoop-2.7.3.tar.gz to tools directory,then unzip and install:

tar -zvxf /tools/hadoop-2.7.3.tar.gz -C /training/

1. set hadoop enviroment：
2. need to configure .bash\_profile file that its paths /root/:

vi ~/.bash\_profile

1. add this informations：

export HADOOP\_HOME=/training/hadoop-2.7.3

export PATH=$PATH:$HADOOP\_HOME/bin:$HADOOP\_HOME/sbin

1. make environment effects

source ~/.bash\_profile

1. check:

hdfs

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**三、Install Pseudo-Distributed Mode of hadoop**

11) configure hostname mapping ip:

a) check:

ifconfig

b) edit host file

vi /etc/hosts

a) add this information:

192.168.31.134 niit01(you can change as per your hostname)

12) Pseudo-Distributed Mode

a) mkdir /training/hadoop-2.7.3/tmp (use to store hdfs namenode infomations)

b) Configure password-free login：

（\*）ssh-keygen -t rsa (enter 4 times)

（\*）cd ~/.ssh/

（\*）ssh-copy-id -i id\_rsa.pub root@niit01 (change according your hostname)

(\*) cd ~

13) Five files need to be configured：

a) edit hadoop-env.sh (use to set jdk ) :

cd /training/hadoop-2.7.3/etc/hadoop/

vi hadoop-env.sh

find JAVA\_HOME and change it as per your Java Path(press / , JAVA\_HOME

b) hdfs-site.xml (use to set permissions and data blocks replications )

vi hdfs-site.xml

1. add this information inside configuration tag:

<property>

<name>dfs.replication</name>

<value>1</value>

</property>

<property>

<name>dfs.permissions</name>

<value>false</value>

</property>

1. vi core-site.xml (use to set namenode and temporary dir)

<property>

<name>fs.defaultFS</name>

<value>hdfs://niit01:9000</value>

</property>

<property>

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

<value>/training/hadoop-2.7.3/tmp</value>

</property>

1. vi mapred-site.xml (use to set mapreduce's run enviroment): this file does not exist,so we need to copy

(\*) cp /training/hadoop-2.7.3/etc/hadoop/mapred-site.xml.template /training/hadoop-2.7.3/etc/hadoop/mapred-site.xml

(\*) vi mapred-site.xml

(\*) add this information:

<property>

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

<value>yarn</value>

</property>

1. yarn-site.xml (use to set yarn)

vi yarn-site.xml

(\*) add this information:

<property>

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

<value>niit01</value>

</property>

<property>

<name>yarn.nodemanager.aux-services</name>

<value>mapreduce\_shuffle</value>

</property>

14) Format NameNode:

hdfs namenode -format

#notice: if formatted is successfully, then you can see information as follows：

common.Storage: Storage directory /training/hadoop-2.7.3/tmp/dfs/name has been successfully formatted.

15) start hadoop:

start-all.sh

16) visit hadoop ：

a) web console

HDFS:http://niit111:50070

Yarn:http://niit111:8088

b) use jps command to check hadoop daemons：

NameNode

DataNode

SecondaryNameNode

ReourceManager

NodeManager

17) if you want to stop, then you can execute：

stop-all.sh