

#### CDH4 Pseudo installation on CentOS

Note: Do not create username as hadoop as you will have issues in installation.

## 1) Install Java

Copy the Oracle jdk on to desktop. \$ cd Desktop \$ su \$ rpm -i jdk-7u67-linux-i586.rpm

# 2) Install CDH4 repository

Install CDH4 repository Click on links : for 32 bit <u>link</u> cd /home/<u>username</u>/Downloads/ rpm -i cloudera-\*.rpm

#### 3) Install CDH4 with MRv2

yum install hadoop-0.20-mapreduce-jobtracker -y
yum install hadoop-hdfs-namenode -y
yum install hadoop-hdfs-secondarynamenode -y
yum install hadoop-0.20-mapreduce-tasktracker hadoop-hdfs-datanode -y

## 4) Set Java and Hadoop Home (Environmental variables for Linux)

Using command:
gedit /etc/profile
# Set Hadoop\_Home
export HADOOP\_HOME=/usr/lib/hadoop
export PATH=\$PATH:/usr/lib/hadoop/bin

To test the above settings:

whereis hadoop

Configuration (Note: All following steps up to 'User Assignment' must be done only in /etc/hadoop/conf directory)

Go to hadoop config directory cd /etc/hadoop/conf

```
5) Add the below property tags in between <configuration> tags
gedit core-site.xml
property>
<name>hadoop.tmp.dir</name>
<value>/usr/lib/hadoop/tmp</value>
</property>
property>
<name>fs.default.name</name>
<value>hdfs://localhost:8020</value>
</property>
mkdir /usr/lib/hadoop/tmp
chmod 777 /usr/lib/hadoop/tmp/
chown hdfs:hadoop / usr/lib/hadoop/tmp/
6) gedit hdfs-site.xml
property>
<name>dfs.permissions</name>
<value>false</value>
</property>
property>
<name>dfs.name.dir</name>
<value>/storage/name</value>
</property>
property>
<name>dfs.data.dir</name>
<value>/storage/data</value>
</property>
property>
<name>dfs.replication</name>
<value>1</value>
</property>
mkdir /storage
chmod 775 /storage/
chown hdfs:hadoop /storage/
```

```
7) gedit mapred-site.xml
<configuration>
property>
<name>mapred.job.tracker</name>
<value>hdfs://localhost:8021</value>
</property>
property>
<name>mapred.system.dir</name>
<value>/mapred/system</value>
</property>
property>
<name>mapred.local.dir</name>
<value>/mapred/local</value>
</property>
property>
<name>mapred.temp.dir</name>
<value>/mapred/temp</value>
</property>
</configuration>
mkdir /mapred
chmod 775 /mapred
chown mapred:hadoop /mapred
```

### 8) User Assignment

```
export HADOOP_NAMENODE_USER=hdfs
export HADOOP_SECONDARYNAMENODE_USER=hdfs
export HADOOP_DATANODE_USER=hdfs
export HADOOP_JOBTRACKER_USER=mapred
export HADOOP_TASKTRACKER_USER=mapred
```

#### 9) Format namenode

sudo -u hdfs hdfs namenode -format

You must get a successfully formatted message. Otherwise, check the /var/log/hadoop-hdfs/ directories for error logs and correct them.

### 10) Start Daemons

/etc/init.d/hadoop-hdfs-namenode start /etc/init.d/hadoop-hdfs-secondarynamenode start /etc/init.d/hadoop-0.20-mapreduce-jobtracker start /etc/init.d/hadoop-hdfs-datanode start /etc/init.d/hadoop-0.20-mapreduce-tasktracker start

If any daemon fails to start. Check for any errors in /var/log/hadoop-hdfs/ and /var/log/hadoop-0.20-mapreduce/ directories for respective daemon

## 11) Check WebUI

localhost:50070 - Namenode (HDFS)

localhost:50030 – Jobtracker (MapReduce) localhost:50090 – Seconadary Namenode