**Installing hadoop single node chdh3**

**1.install java version 1.6 or later.**

**2.download cdh3 repository from cloudera**

# wget http://archive.cloudera.com/redhat/6/x86\_64/cdh/cdh3-repository-1.0-1.noarch.rpm

**3.install the repository**

# sudo yum --nogpgcheck localinstall cdh3-repository-1.0-1.noarch.rpm (installs in etc/repos.d)

**4.search hadoop packages**

#yum search hadoop

#yum install hadoop-0.20 (installs in /usr/lib/hadoop/bin)

**5.install system specific deamon packages(namenode,datanode...)**

#yum install hadoop-0.20-namenode

#yum install hadoop-0.20-datanode

#yum install hadoop-0.20-secondarynamenode

#yum install hadoop-0.20-jobtracker

#yum install hadoop-0.20-tasktracker

**6.check the installation is done by**

#rpm -ql hadoop-0.20 (displays installed information)

#hadoop version (to check for hadoop version installed)

#man hadoop (view the man page)

**7.create hadoop ,hdfs directory.( /hadoop/hdfs)**

#mkdir hadoop in root path

#mkdir hdfs

**8.in hdfs dir create name and data dir.**

#mkdir name (/hadoop/hdfs/name)

#mkdir data (/hadoop/hdfs/data)

**8.1 change the ownner of hdfs directory to hadoop**

#chown -R hdfs:hadoop hadoop

**9.change configuration file properties**

#cd /usr/lib/hadoop/conf/

**10. #vi core-site.xml**

edit file:

(name does not change only the property value changes)

<configuration>

<property>

<name>fs.default.name</name>

<value>hdfs://<ip-address>or<hostname>/</value>

</property>

</configuration>

**11. hdfs-site.xml:**

#vi hdfs-site.xml

configuration>

<property>

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

<value>/hadoop/hdfs/name</value>

</property>

<property>

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

<value>/hadoop/hdfs/data</value>

</property>

<property>

<name>dfs.replication</name>

<value>1</value>

</property>

</configuration>

**12.mapred-site.xml**

# vi mapred-site.xml

<configuration>

<property>

<name>mapred.job.tracker</name>

<value><ip-address>or<hostname>:8021</value>

</property>

<property>

<name>mapred.tasktracker.map.tasks.maximum</name>

<value>4</value>

</property>

<property>

<name>mapred.tasktracker.reduce.tasks.maximum</name>

<value>2</value>

</property>

</configuration>

**13.go back to the root directory**

# cd /

**14. format the namnode using the following commad:**  
# sudo –u hdfs /usr/lib/hadoop/bin/hadoop namenode –format

**15. Starting all services:**

#for service in /etc/init.d/hadoop-0.20-\*  
> do  
> sudo $service start  
> done

**16. Or start individual services:**

(from root type the command)

# etc/init.d/hadoop-0.20-namenode start   
# etc/init.d/hadoop-0.20-jobtracker start

# etc/init.d/hadoop-0.20-secondarynamenode start

# etc/init.d/hadoop-0.20-datanode start

# etc/init.d/hadoop-0.20-tasktracker start

**Installing sqoop**

# sudo yum install sqoop

**Installing mysql**

#yum search mysql

#yum install mysql\_version\_64

sudo mysql -h server2.ops.cloudwick.com -u root -p(password)

mysql> use database name; ( to create database # create database database name)

**(if above sudo command does not work)**

/etc/init.d/mysqld stop

mysqld\_safe --skip-grant-tables &

mysql -u root

mysql> use mysql; (used to select database)

 mysql> update user set [password](http://www.webhostingtalk.com/showthread.php?t=875255)=PASSWORD("your newrootpassword") where User='root';

mysql> flush privileges;

mysql> quit  
/etc/init.d/mysqld stop  
/etc/init.d/mysqld start

**to import mysql tables to hdfs using sqoop:**

**install mysql driver and store in the location /usr/lib/sqoop/lib**

# wget http://dev.mysql.com/get/Downloads/Connector-J/mysql-connector-java-5.1.28.tar.gz

<http://archanaschangale.wordpress.com/2013/09/18/sqoopimporting-data-from-mysql-into-hdfs/>

**for importing:**

sudo -u hdfs sqoop import --connect jdbc:mysql://server2.ops.cloudwick.com/*mysql* --username root --password ali123 --table emp *--m 1*

*/mysql (database name)*

*--m 1 (if table does not have primary key)*

**for viewing tables using sqoop:**

sudo -u hdfs sqoop eval --connect jdbc:mysql://server2.ops.cloudwick.com/mysql --username root --password ali123 --query "select \* from emp"

selinux

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# hadoop fs -ls /user/hdfs/ (to view the files in hdfs home directory)