**Hbase Installation and configuration**

Extract Hbase common files to the path where you want to install it. In my case I am using /usr/local/.Run the following command.

**#sudo tar xzf hbase-0.96.0-hadoop2-bin.tar.gz**

**#ln –s hbase-0.96.0-hadoop2-bin.tar.gz hbase**  (make it simple by creating link)

(Change the permission and owner of the directory by running following command)

**#sudo chown -R hduser:hadoop hbase**

**#sudo chmod -R 777 hbase**

Set the following environment variable in your startup script. In my case, I have to set it on */home/hadoop/.bashrc.*

**#vi .bashrc**

**export HBASE\_HOME=/usr/local/hbase**

**export PATH=$PATH:$HADOOP\_HOME/bin:$HBASE\_HOME/bin**

**export HBASE\_CONF\_DIR=/usr/local/hbase/conf**

**Edit file at location /usr/local/hbase/conf/hbase-site.xml**

**# cd /usr/local/hbase/conf**

**#vi hbase-site.xml**

<configuration>

<property>

<name>hbase.tmp.dir</name>

<value>/home/hadoop/double/tmp/hbase-${user.name}</value>

</property>

<property>

<name>hbase.local.dir</name>

<value>${hbase.tmp.dir}/local/</value>

</property>

<property>

<name>hbase.rootdir</name>

<value>hdfs://mycluster/hbase</value>

</property>

<property>

<name>hbase.cluster.distributed</name>

<value>true</value>

</property>

<property>

<name>hbase.master.port</name>

<value>60000</value>

</property>

<property>

<name>hbase.regionserver.port</name>

<value>60020</value>

</property>

<property>

<name>dfs.replication</name>

<value>2</value>

</property>

<property>

<name>hbase.master.info.port</name>

<value>60010</value>

</property>

<property>

<name>hbase.regionserver.info.port</name>

<value>60030</value>

</property>

<property>

<name>hbase.zookeeper.property.clientPort</name>

<value>2181</value>

</property>

<property>

<name>hbase.zookeeper.quorum</name>

<value>zk1.example.com:2181,zk1.example.com:2181,zk1.example.com:2181</value>

</property>

<property>

<name>hbase.master.distributed.log.replay</name>

<value>true</value>

</property>

<property>

<name>hbase.lease.recovery.dfs.timeout</name>

<value>23000</value>

</property>

<property>

<name>dfs.client.socket-timeout</name>

<value>10000</value>

</property>

<property>

<name>dfs.client.socket-timeout</name>

<value>10000</value>

</property>

<property>

<name>dfs.datanode.socket.write.timeout</name>

<value>10000</value>

</property>

<property>

<name>ipc.client.connect.timeout</name>

<value>3000</value>

</property>

<property>

<name>ipc.client.connect.max.retries.on.timeouts</name>

<value>2</value>

</property>

</configuration>

**Now edit /usr/local/hbase/conf/regionservers and do the following change,**

**#vi regionservers**

node1.example.com

node2.example.com

node3.example.com

**Now edit /usr/local/hbase/conf/hbase-env.sh and do the following change,**

**#vi hbase-env.sh**

export JAVA\_HOME=/usr/lib/jvm/java-7-oracle

export HBASE\_CLASSPATH=/usr/local/hbase/conf

export HBASE\_HEAPSIZE=1000 (its depend upon your RAM size)

export HBASE\_REGIONSERVERS=${HBASE\_HOME}/regionservers

export HBASE\_LOG\_DIR=${HBASE\_HOME}/logs

export HBASE\_MANAGES\_ZK=false

**Note:**

**Hbase has dependency on hadoop libraries and thats the reason you will copy all hadoop-\*jar file in ${HBASE\_HOME}/lib/ location and also copy the core-site.xml anf hdfs-site.xml file in ${HBASE\_HOME}/conf/location.**

**Start hbase by using following command**

$start-hbase.sh

**Using jps command on Master,output shown like this,**

**$JPS**

23763 TaskTracker

24189 HMaster

23168 DataNode

24504 HRegionServer

5580 Jps

23527 JobTracker

23430 SecondaryNameNode

23977 QuorumPeerMain

22929 NameNode

**And using jps command on Slavenode,output shown like this,**

**$JPS**

20330 Jps

16184 QuorumPeerMain

27540 HRegionServer

14978 DataNode

15199 TaskTracker