**INSTALLING HBASE ON UBUNTU**

**Host name : myubuntu**

**Host ip : 10.2.3.45**

**Note :**

**Before installing Hbase we have to install Zookeeper in all the machines.**

**First download hbase and extract it.**

**you will need to edit hbase-site.xml, regionservers, hbase-env.sh (found in $HBASE\_HOME/conf) and and zoo.cfg (found in $ZOOKEEPER\_HOME/conf).**

**Let us consider your hadoop, hbase and Zookeeper folders are in /home/msruser1/hadoopcluster**

**Change the following files:**

**1. hbase-site.xml:**

**<configuration>**

**<property>**

**<name>hbase.rootdir</name>**

**<value>hdfs://myubuntu:8020/hbase</value>**

**</property>**

**<property>**

**<name>hbase.master</name>**

**<value>myubuntu:60000</value>**

**</property>**

**<property>**

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

**<value>myubuntu </value>**

**</property>**

**<property>**

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

**<value>2181</value>**

**</property>**

**<property>**

**<name>hbase.zookeeper.property.dataDir</name>**

**<value>/home/msruser1/hadoopcluster/zoo\_data</value>**

**( we will create this directory in next steps,for now just go)**

**</property>**

**</configuration>**

**2. hbase-env.sh:**

**--add these lines--**

**export JAVA\_HOME=/usr/lib/jvm/java-1.7.0-openjdk-amd64**

**export HBASE\_MANAGES\_ZK=false ( check comment in file to understand)**

**3. regionservers:**

**(Delete the localhost and add these lines if you want region servers)**

**myubuntu**

**4.zoo.cfg ( in zookeeper/conf folder,rename zoo\_sample.cfg to zoo.cfg)**

**--modify these lines--**

**dataDir=/home/msruser1/hadoopcluster/zoo\_data**

**( we will create this folder later)**

**--add these lines--**

**server.1=myubuntu:2888:3888**

**5.create new folder in /home/msruser1/hadoopcluster/zoo\_data location**

**Give name to the new folder as zoo\_data**

**In that zoo\_data folder create one empty new document give the name to the new document as myid**

**6.open ~/.bashrc file**

**--add these lines—**

**export HBASE\_HOME=/home/hadoop/work/hbase-0.98.0-hadoop2**

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

**export ZOOKEEPER\_HOME=/home/msruser1/hadoopcluster/zookeeper-3.4.6**

**export PATH=$ZOOKEEPER\_HOME/bin:$PATH**

**Note: Do steps 1 to 6 in all machines.**

**7.Then open myid document and add 1. save and close file.**

**8. Start zookeeper server:**

**zkServer.sh start**

**or**

**$ZOOKEEPER\_HOME/bin/zkServer.sh start**

**9. Start hbase processes :**

**start-hbase.sh**

**or**

**$HBASE\_HOME/bin/start-hbase.sh**

**10. Check your hbase processes: Results for jps command in each node should contain-**

**--myubuntu--**

**HMaster**

**HRegionServer**

**QuorumPeerMain**

**11. Stopping zookeeeper and hbase**

**$ZOOKEEPER\_HOME/bin/zkServer.sh stop**

**$HBASE\_HOME/bin/stop-hbase.sh**