25 instructions to Install Hadoop 2.6 on Ubuntu Server 14.04- LTS.

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1) (Execute all the commands as root user) #apt-get update
2) # apt-get install default-jdk
3) # java -version (Type this command)
4) # ssh-keygen -t rsa -P ''
   (Press enter after this don't put the file name)
5) # cat ~/.ssh/id rsa.pub >> ~/.ssh/authorized keys
6) # wget http://mirrors.sonic.net/apache/hadoop/common/hadoop-
  2.6.0/hadoop-2.6.0.tar.gz
7) # tar xvzf hadoop-2.6.0.tar.qz
8) # mv hadoop-2.6.0 /usr/local/hadoop
9) # update-alternatives --config java
   (You will get below output)
  root@hadoop:~# update-alternatives --config java
  There is only one alternative in link group java (providing /usr/bin/java): /usr/lib/jvm/java-7-openjdk-
  amd64/jre/bin/java Nothing to configure.
        # nano ~/.bashrc
10)
   (Copy paste below things in the file and replace red line with green
  line if they are not same)
        #HADOOP VARIABLES START
        export JAVA HOME=/usr/lib/jvm/java-7-openjdk-amd64
        export HADOOP INSTALL=/usr/local/hadoop
        export PATH=$PATH:$HADOOP INSTALL/bin
        export PATH=$PATH:$HADOOP INSTALL/sbin
        export HADOOP MAPRED HOME=$HADOOP INSTALL
        export HADOOP COMMON HOME=$HADOOP INSTALL
        export HADOOP HDFS HOME=$HADOOP INSTALL
        export YARN HOME=$HADOOP INSTALL
        export HADOOP COMMON LIB NATIVE DIR=$HADOOP INSTALL/lib/native
        export HADOOP OPTS="-Djava.library.path=$HADOOP INSTALL/lib"
        #HADOOP VARIABLES END
  Now we need to edit some file. All the files are in below directory -
        # cd /usr/local/hadoop/etc/hadoop
11)
12)
        # ls
```

You will see many files here ---

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13)
         # nano hadoop-env.sh
   Copy paste below line at the end of the above file. (Replace red line
   with green line if they are not same, just like we did above)
         export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
14)
         # nano core-site.xml
   Open the file and enter the following in between the
   <configuration></configuration> tag
         cproperty>
          <name>hadoop.tmp.dir</name>
         <value>/app/hadoop/tmp</value>
          <description>A base for other temporary directories.</description>
         </property>
         cproperty>
         <name>fs.default.name</name>
         <value>hdfs://localhost:54310</value>
         <description>The name of the default file system. A URI whose
         scheme and authority determine the FileSystem implementation. The
         uri's scheme determines the config property (fs.SCHEME.impl) naming
         the FileSystem implementation class. The uri's authority is used to
         determine the host, port, etc. for a filesystem.</description>
         </property>
15)
         Copy mapred-site.xml.template file to mapred-site.xml
   # cp /usr/local/hadoop/etc/hadoop/mapred-site.xml.template
   /usr/local/hadoop/etc/hadoop/mapred-site.xml
16)
         # nano mapred-site.xml
   Open the file and enter the following in between the
   <configuration></configuration> tag
         property>
         <name>mapred.job.tracker</name>
          <value>localhost:54311</value>
          <description>The host and port that the MapReduce job tracker runs
         at. If "local", then jobs are run in-process as a single map
         and reduce task.
         </description>
         </property>
   (I hope you are still this /usr/local/hadoop/etc/Hadoop directory)
17)
         # mkdir -p /usr/local/hadoop store/hdfs/namenode
         # mkdir -p /usr/local/hadoop store/hdfs/datanode
18)
```

19) # nano hdfs-site.xml Open the file and enter the following in between the <configuration></configuration> tag property> <name>dfs.replication</name> <value>1</value> <description>Default block replication. The actual number of replications can be specified when the file is created. The default is used if replication is not specified in create time. </description> </property> cproperty> <name>dfs.namenode.name.dir</name> <value>file:/usr/local/hadoop_store/hdfs/namenode</value> </property> cproperty> <name>dfs.datanode.data.dir</name> <value>file:/usr/local/hadoop store/hdfs/datanode</value> </property> 20) # hdfs namenode -format (Do this only once, if this command is executed again after Hadoop has been used, it'll destroy all the data on the Hadoop file system. Sometimes this command do not work in 1st attempt. So change the user and again change it back to 'root'.) Below commands are to test the successful installation of Hadoop. 21) # start-dfs.sh (Type YES both the time when asked)

- 22) # start-yarn.sh
- 23) # jps
- 24) # netstat -plten | grep java
- 25) # stop-all.sh

Reference Links ---

- 1) https://www.digitalocean.com/community/tutorials/how-to-installhadoop-on-ubuntu-13-10
- 2) http://www.bogotobogo.com/Hadoop/BigData hadoop Install on ubuntu sin gle node cluster.php