

# Module 7: Oozie, Hive and HBase Administration

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## HBase Installation on Ubuntu

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## Table of Contents

<b>Step 1:</b> Download the tarball for hbase-0.94.16 from the following link:.....	2
<b>Step 2:</b> Unzip this file in /home/user directory. ....	2
<b>Step 3:</b> Open hbase/conf/hbase-env.sh file and add these lines in this file. ....	2
<b>Step 4:</b> Set HBASE_HOME path in bashrc file .....	3
<b>Step 5:</b> Update hbase-site.xml in hbase-0.94.8/conf/directory: .....	4
<b>Step 6:</b> Now check Hadoop version support matrix. ....	4
<b>Step 7:</b> Start Hadoop cluster.....	6
<b>Step 8:</b> Start Hmaster.....	7
<b>Step 9:</b> Launch hbase shell.....	7
<b>Step 10:</b> To get out of hbase shell type exit. ....	7

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# HBase installation guide

**Prerequisite:** Hadoop should already be installed on the system

**Step 1:** Download the tarball for hbase-0.94.16 from the following link:

[wget -c http://archive.apache.org/dist/hive/hive-0.9.0/hive-0.9.0-bin.tar.gz](http://archive.apache.org/dist/hive/hive-0.9.0/hive-0.9.0-bin.tar.gz)

**Step 2:** Unzip this file in /home/user directory.

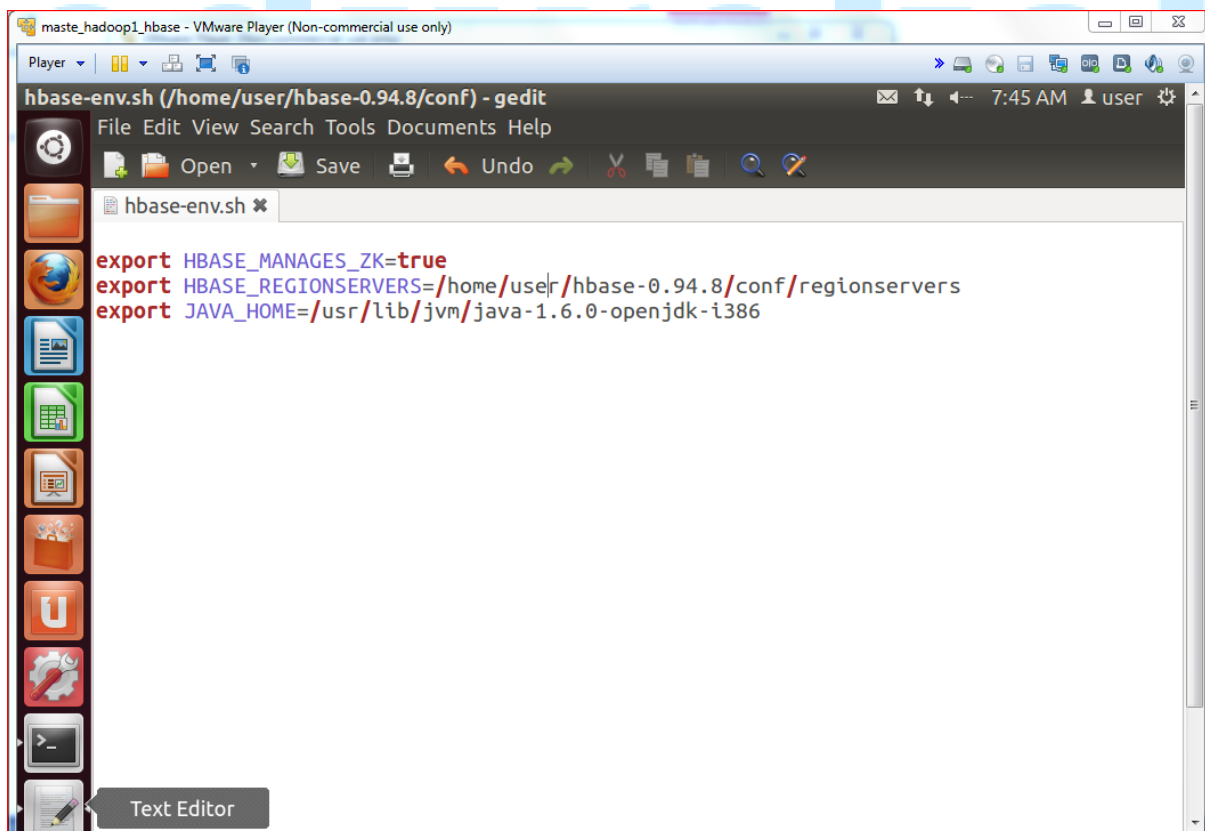
```
$ tar -xvfz hbase-0.94.8.tar.gz
```

**Step 3:** Open hbase/conf/hbase-env.sh file and add these lines in this file.

```
export JAVA_HOME=/usr/lib/jvm/jdk1.7.0_25
```

```
export HBASE_REGIONSERVERS=/home/user/hbase0.94.8/conf/regionservers export
```

```
HBASE_MANAGES_ZK=true
```



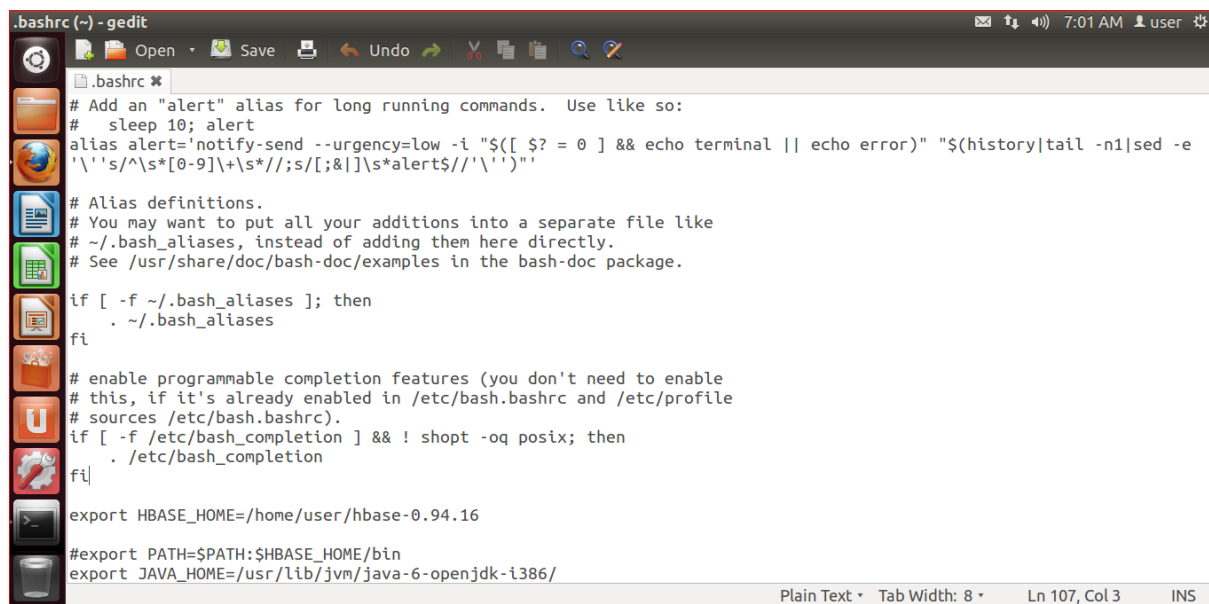
## Step 4: Set HBASE\_HOME path in bashrc file

```
$ gedit ~/.bashrc
```

Add the following lines in `.bashrc` file

```
export HBASE_HOME=/home/user/hbase0.948
```

```
export PATH=$PATH:$HBASE_HOME/bin
```



```
.bashrc (~) - gedit
# Add an "alert" alias for long running commands.  Use like so:
#   sleep 10; alert
alias alert='notify-send --urgency=low -i "${[ $? = 0 ]} && echo terminal || echo error" "$(history|tail -n1|sed -e
'\s/\^\\s*[0-9]\\+\s*//;s/[:;&|]\\s*alert$/\''\''")'

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

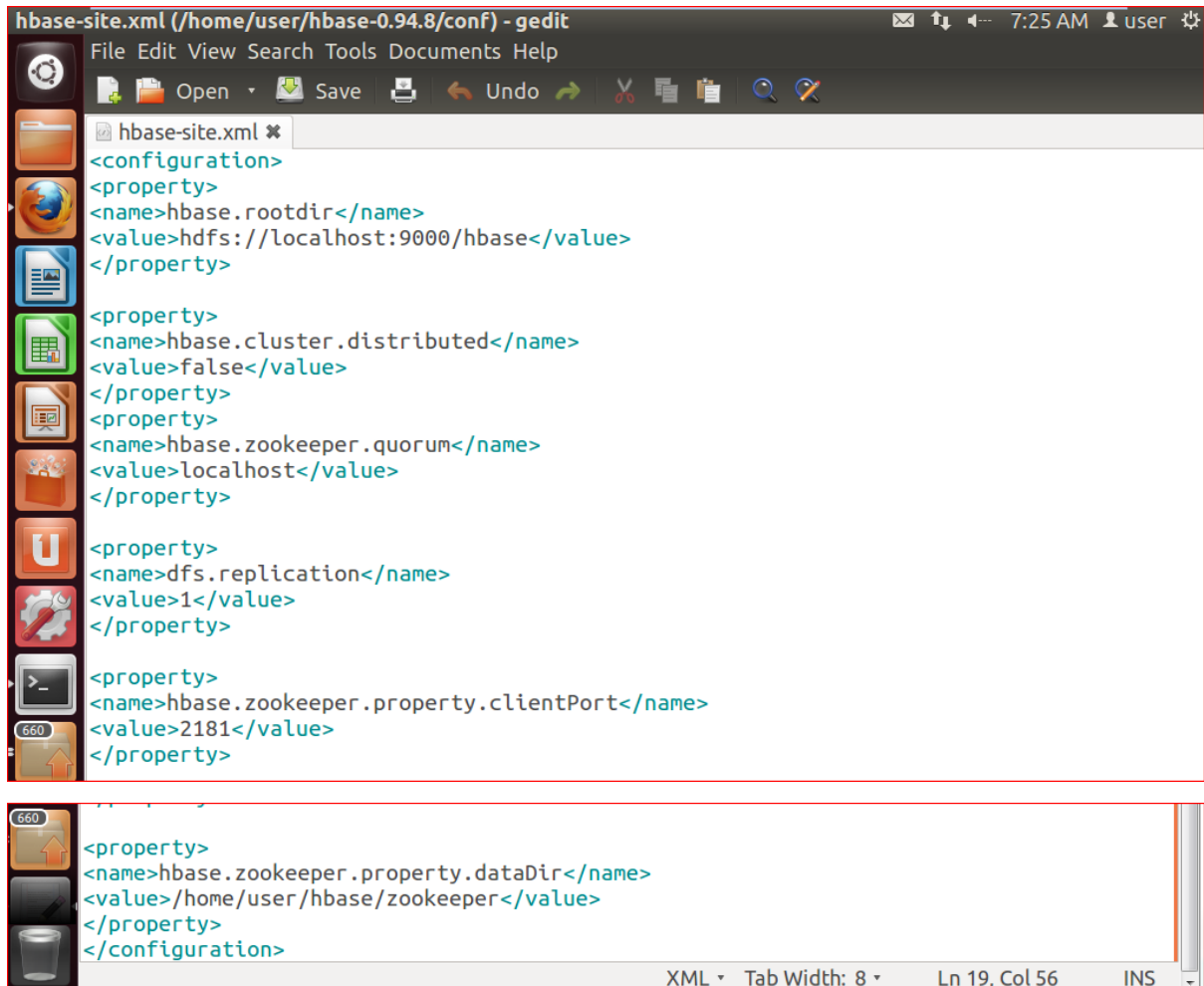
if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if [ -f /etc/bash_completion ] && ! shopt -oq posix; then
    . /etc/bash_completion
fi

export HBASE_HOME=/home/user/hbase-0.94.16

#export PATH=$PATH:$HBASE_HOME/bin
export JAVA_HOME=/usr/lib/jvm/java-6-openjdk-i386/

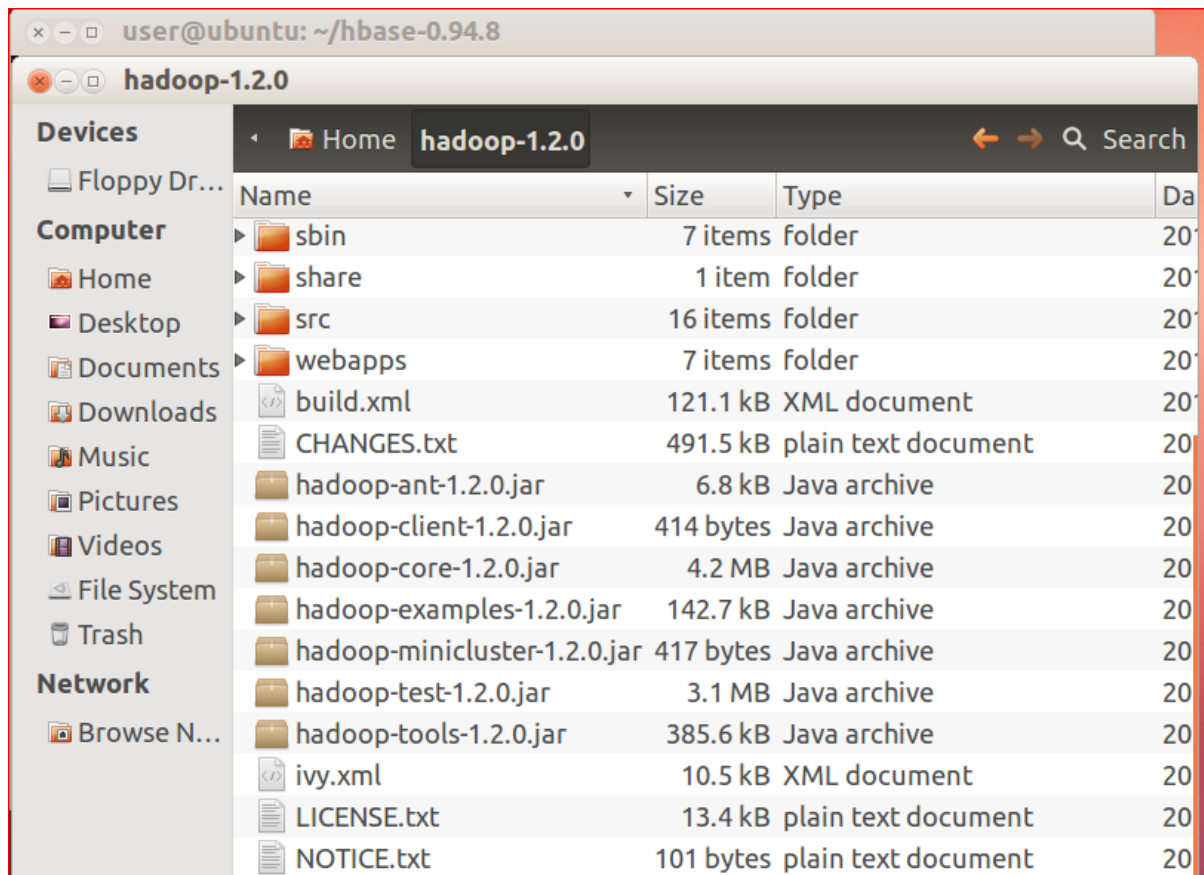
Plain Text • Tab Width: 8 • Ln 107, Col 3  INS
```

**Step 5:** Update hbase-site.xml in hbase-0.94.8/conf/directory:

```
hbase-site.xml (/home/user/hbase-0.94.8/conf) - gedit
File Edit View Search Tools Documents Help
Open Save Undo
hbase-site.xml *
<configuration>
<property>
<name>hbase.rootdir</name>
<value>hdfs://localhost:9000/hbase</value>
</property>
<property>
<name>hbase.cluster.distributed</name>
<value>>false</value>
</property>
<property>
<name>hbase.zookeeper.quorum</name>
<value>localhost</value>
</property>
<property>
<name>dfs.replication</name>
<value>1</value>
</property>
<property>
<name>hbase.zookeeper.property.clientPort</name>
<value>2181</value>
</property>
<property>
<name>hbase.zookeeper.property.dataDir</name>
<value>/home/user/hbase/zookeeper</value>
</property>
</configuration>
XML Tab Width: 8 Ln 19, Col 56 INS
```

**Step 6:** Now check Hadoop version support matrix.

If Hadoop is not supported your hbase version then you will get some exception. To fix this simply copy **hadoop-core-\*.jar** from your HADOOP\_HOME and **commons-collections-\*.jar** from HADOOP\_HOME/lib folder into your HBASE\_HOME/lib folder



Home hadoop-1.2.0 lib			Search
Name	Size	Type	
native	2 items	folder	
asm-3.2.jar	43.4 kB	Java archive	
aspectjrt-1.6.11.jar	116.2 kB	Java archive	
aspectjtools-1.6.11.jar	8.9 MB	Java archive	
commons-beanutils-1.7.0.jar	188.7 kB	Java archive	
commons-beanutils-core-1.8.0.jar	206.0 kB	Java archive	
commons-cli-1.2.jar	41.1 kB	Java archive	
commons-codec-1.4.jar	58.2 kB	Java archive	
commons-collections-3.2.1.jar	575.4 kB	Java archive	
commons-configuration-1.6.jar	298.8 kB	Java archive	
commons-daemon-1.0.1.jar	13.6 kB	Java archive	
commons-digester-1.8.jar	143.6 kB	Java archive	
commons-el-1.0.jar	112.3 kB	Java archive	
commons-httpclient-3.0.1.jar	279.8 kB	Java archive	
commons-io-2.1.jar	163.2 kB	Java archive	
commons-lang-2.4.jar	261.8 kB	Java archive	

## Step 7: Start Hadoop cluster

[user@ubuntu:~/hadoop-1.2.0\\$ bin/start-all.sh](#)

```
user@ubuntu:~/hadoop-1.2.0$ bin/start-all.sh
starting namenode, logging to /home/user/hadoop-1.2.0/libexec/../logs/
hadoop-user-namenode-ubuntu.out
localhost: starting datanode, logging to /home/user/hadoop-1.2.0/libex
ec/../logs/hadoop-user-datanode-ubuntu.out
localhost: starting secondarynamenode, logging to /home/user/hadoop-1.
2.0/libexec/../logs/hadoop-user-secondarynamenode-ubuntu.out
starting jobtracker, logging to /home/user/hadoop-1.2.0/libexec/../log
s/hadoop-user-jobtracker-ubuntu.out
localhost: starting tasktracker, logging to /home/user/hadoop-1.2.0/libexec/../logs/had
oop-user-tasktracker-ubuntu.out
user@ubuntu:~/hadoop-1.2.0$
```

**Step 8:** Start Hmaster

[user@ubuntu:~/hbase-0.94.8\\$ bin/start-hbase.sh](#)

```
user@ubuntu:~/hbase-0.94.8$ bin/start-hbase.sh
starting master, logging to /home/user/hbase-0.94.8/bin/../logs/hbase-user-master-ubuntu.out
user@ubuntu:~/hbase-0.94.8$ jps
5147 NameNode
5588 SecondaryNameNode
5672 JobTracker
6323 HMaster
5911 TaskTracker
6460 Jps
5368 DataNode
user@ubuntu:~/hbase-0.94.8$
```

**Step 9:** Launch hbase shell

[user@ubuntu:~/hbase-0.94.8\\$ bin/hbase shell](#)

```
user@ubuntu:~/hbase-0.94.8$ bin/hbase shell
HBase Shell; enter 'help<RETURN>' for list of supported commands.
Type "exit<RETURN>" to leave the HBase Shell
Version 0.94.8, r1485407, Wed May 22 20:53:13 UTC 2013

hbase(main):001:0>
```

**Step 10:** To get out of hbase shell type exit.