#### **HBase Installation**



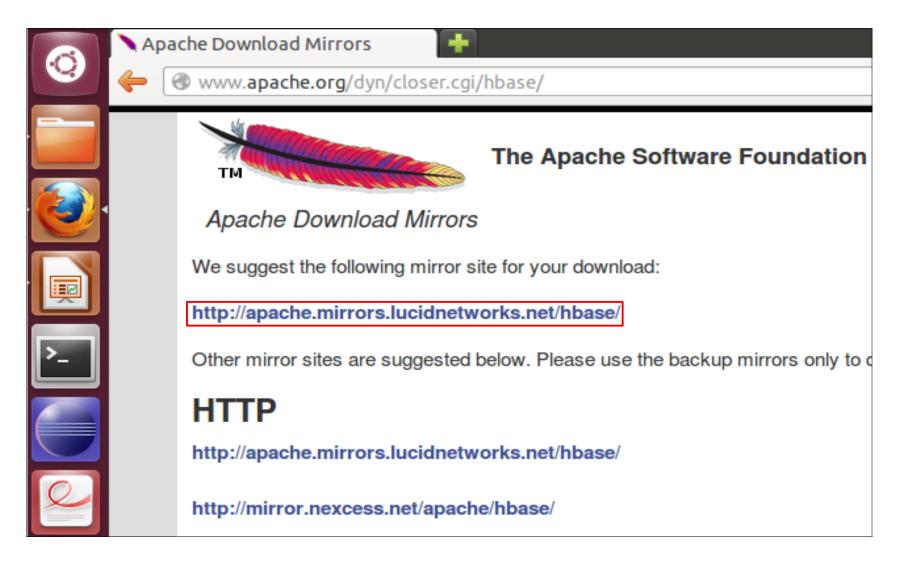
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# Agenda

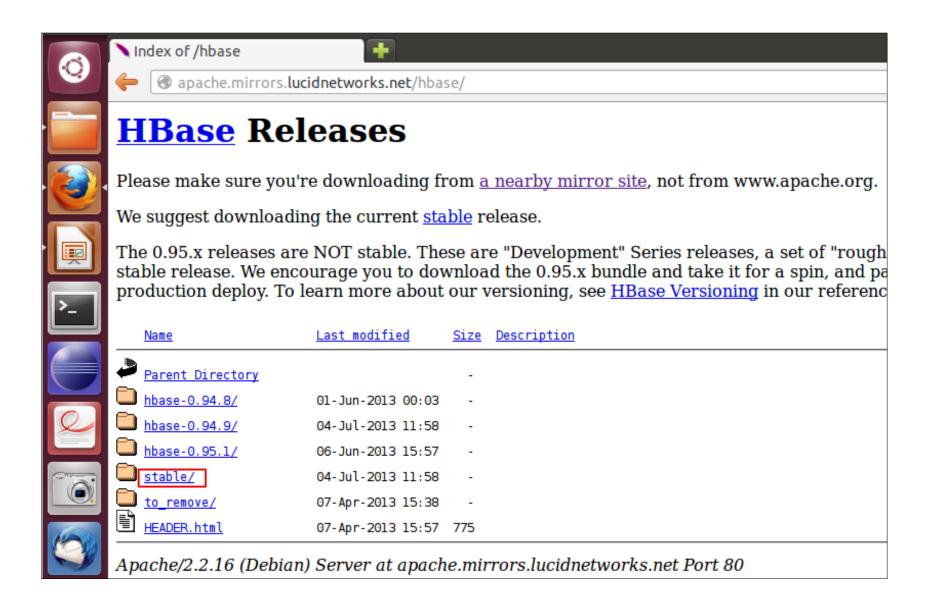
Download HBase from Apache website Untar the HBase tar.gz file Modify hbase-env.sh file Modify hbase-site.xml file Start Hadoop Verify that Hadoop is running Check safe mode status Start HBase Verify Hadoop & HBase processes Stop HBase

#### Download HBase

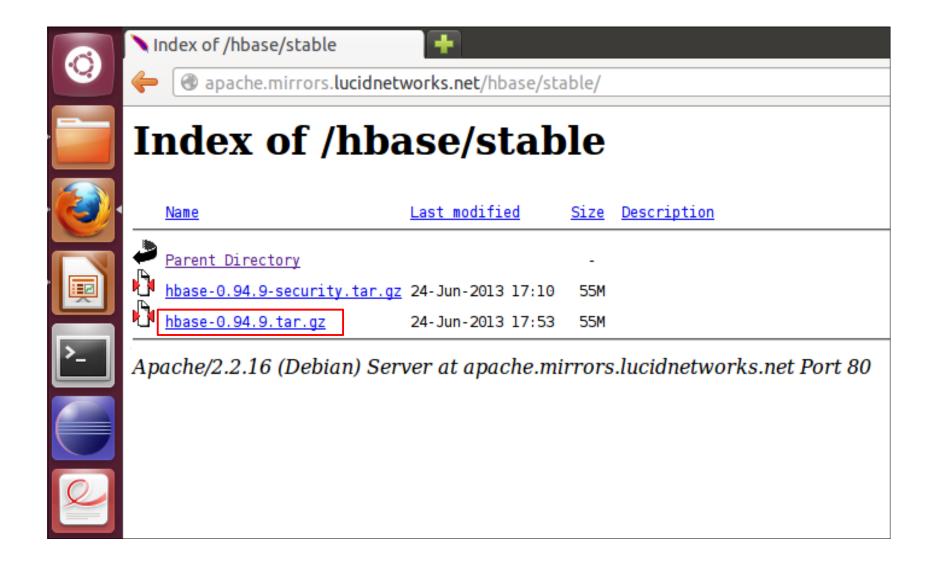
http://www.apache.org/dyn/closer.cgi/hbase/



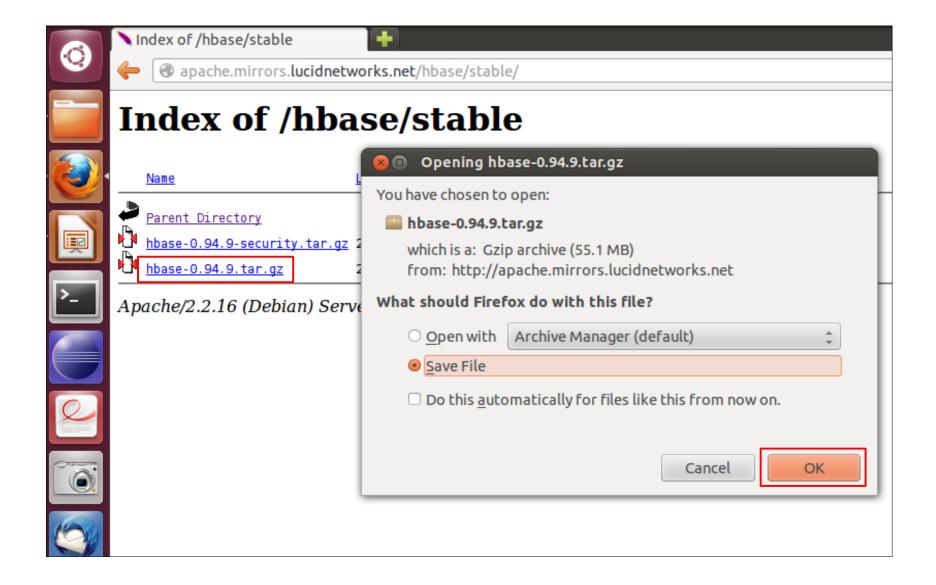
#### Select stable version



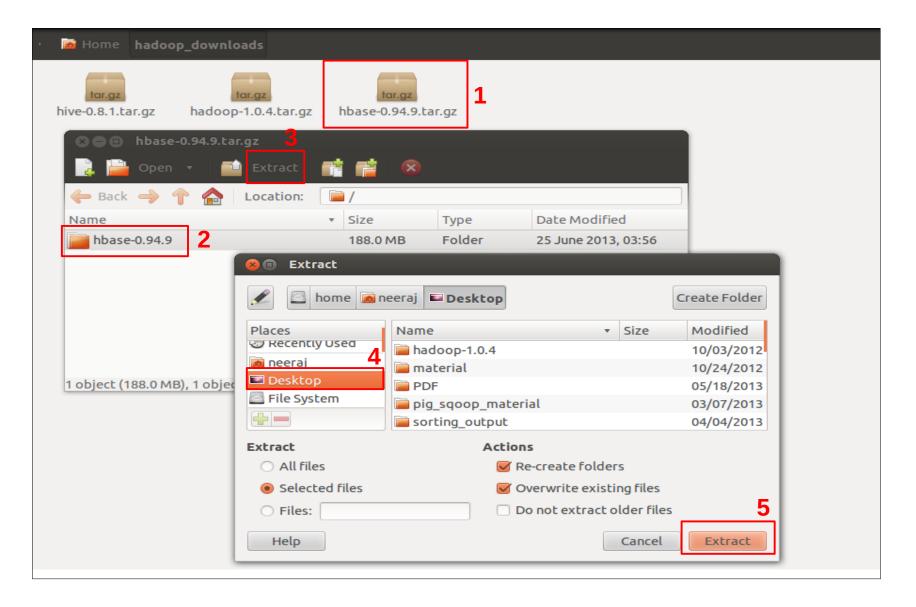
#### Download the tar file



#### Save the tar file



# Untar the tar.gz file



# Modify hbase-env.sh file

Add the following lines to HBASE\_HOME/conf/ hbase-env.sh

```
export JAVA_HOME=/usr
```

export HBASE\_HOME=/home/neeraj/local\_cluster\_home/hbase-0.94.9

export HBASE\_CLASSPATH=/home/neeraj/local\_cluster\_home/hadoop-1.2.1/conf

## Modify hbase-site.xml file

Add the following in hbase-site.xml file [Standalone mode]

```
<configuration>
       cproperty>
            <name>hbase.cluster.distributed</name>
           <value>false</value>
       </property>
       cproperty>
           <name>hbase.rootdir</name>
           <value>/home/neeraj/local_cluster_home/hbase_data</value>
       </configuration>
```

### Modify hbase-site.xml file

Add the following in hbase-site.xml file [Distributed mode]

```
<configuration>
```

```
property>
    <name>hbase.cluster.distributed</name>
    <value>true</value>
</property>
property>
    <name>hbase.rootdir</name>
    <value>hdfs://master:9000/hbase</value>
</property>
property>
    <name>dfs.replication</name>
    <value>2</value>
</property>
```

</configuration>

### Start Hadoop

./start-all.sh

```
风 🖨 📵 🏻 Terminal
neeraj@ubuntu:~/local_cluster_home/hadoop-1.0.3/bin$ pwd
/home/neeraj/local_cluster_home/hadoop-1.0.3/bin
neeraj@ubuntu:~/local_cluster_home/hadoop-1.0.3/bin$ ./start-all.sh
starting namenode, logging to /home/neeraj/local_cluster_home/hadoop-1.0.3/logs/hadoop-neeraj-
namenode-ubuntu.out
myubuntu: starting datanode, logging to /home/neeraj/local_cluster_home/hadoop-1.0.3/logs/hado
op-neeraj-datanode-ubuntu.out
myubuntu: starting secondarynamenode, logging to /home/neeraj/local_cluster_home/hadoop-1.0.3/
logs/hadoop-neeraj-secondarynamenode-ubuntu.out
starting jobtracker, logging to /home/neeraj/local_cluster_home/hadoop-1.0.3/logs/hadoop-neera
j-jobtracker-ubuntu.out
myubuntu: starting tasktracker, logging to /home/neeraj/local_cluster_home/hadoop-1.0.3/logs/h
adoop-neeraj-tasktracker-ubuntu.out
neeraj@ubuntu:~/local_cluster_home/hadoop-1.0.3/bin$
```

# Check Hadoop processes & Safemode

Make sure that safe mode is off before you start HBase

```
🔞 🖹 📵 Terminal
neeraj@ubuntu:~/local_cluster_home/hadoop-1.2.1/bin$ pwd
/home/neeraj/local_cluster_home/hadoop-1.2.1/bin
neeraj@ubuntu:~/local_cluster_home/hadoop-1.2.1/bin$ jps
3915 TaskTracker
4178 Jps
3610 SecondaryNameNode
3399 DataNode
3159 NameNode
3701 JobTracker
neeraj@ubuntu:~/local_cluster_home/hadoop-1.2.1/bin$ ./hadoop dfsadmin -safemode get
Safe mode is OFF
neeraj@ubuntu:~/local_cluster_home/hadoop-1.2.1/bin$
```

#### Start HBase

./start-hbase.sh

```
Terminal
File Edit View Search Terminal Help
neeraj@myubuntu:~/local_cluster_home/hbase-0.94.9/bin$ pwd
/home/neeraj/local_cluster_home/hbase-0.94.9/bin
neeraj@myubuntu:~/local_cluster_home/hbase-0.94.9/bin$ ./start-hbase.sh
localhost: starting zookeeper, logging to /home/neeraj/local_cluster_home/hbase
-0.94.9/logs/hbase-neeraj-zookeeper-myubuntu.out
starting master, logging to /home/neeraj/local_cluster_home/hbase-0.94.9/logs/h
base-neeraj-master-myubuntu.out
myubuntu: starting regionserver, logging to /home/neeraj/local_cluster_home/hba
se-0.94.9/logs/hbase-neeraj-regionserver-myubuntu.out
neeraj@myubuntu:~/local_cluster_home/hbase-0.94.9/bin$
```

## Verify Hadoop & HBase processes

#### jps

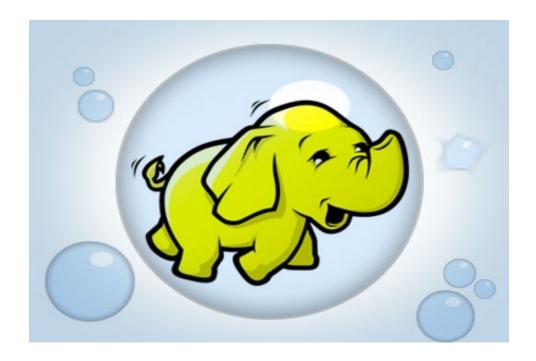
```
风 🖨 📵 🏻 Terminal
neeraj@ubuntu:~/local_cluster_home/hbase-0.94.9/bin$ jps
13017 JobTracker
17789 Jps
12521 NameNode
13222 TaskTracker
12723 DataNode
17522 HRegionServer
17199 HQuorumPeer
12927 SecondaryNameNode
17274 HMaster
neeraj@ubuntu:~/local_cluster_home/hbase-0.94.9/bin$
```

### Stop HBase

./stop-hbase.sh

```
🚫 🖃 📵 🏻 Terminal
File Edit View Search Terminal Help
neeraj@myubuntu:~/local cluster home/hbase-0.94.9/bin$ pwd
/home/neeraj/local_cluster_home/hbase-0.94.9/bin
neeraj@myubuntu:~/local_cluster_home/hbase-0.94.9/bin$ ./stop-hbase.sh
stopping hbase...
localhost: stopping zookeeper.
neeraj@myubuntu:~/local cluster home/hbase-0.94.9/bin$ jps
11046 NameNode
11596 JobTracker
11263 DataNode
11830 TaskTracker
13486 Jps
11514 SecondaryNameNode
neeraj@myubuntu:~/local_cluster_home/hbase-0.94.9/bin$
```

# ...Thanks...



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