Phoenix-4.7.0 Version Installation Steps
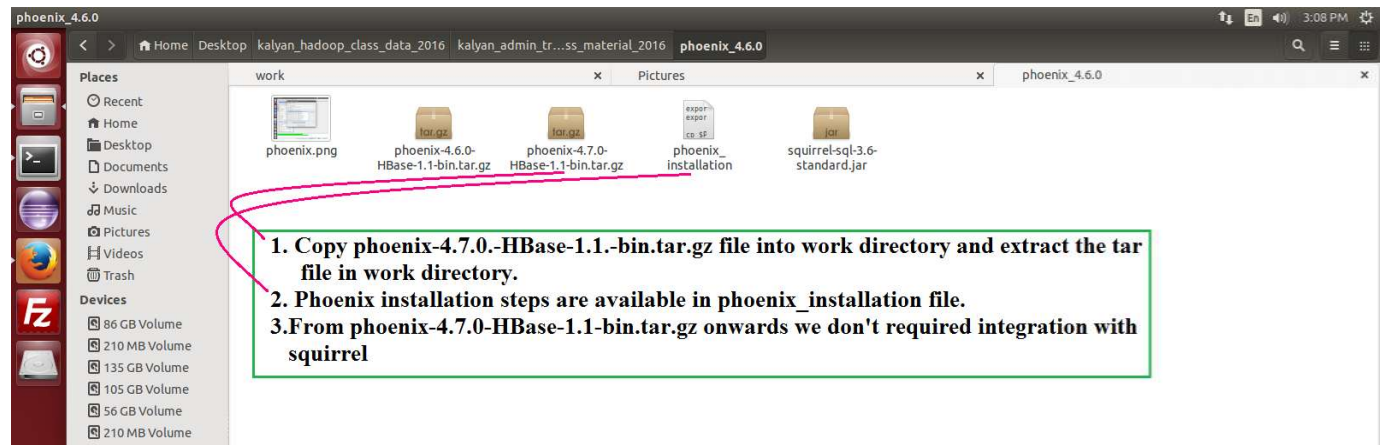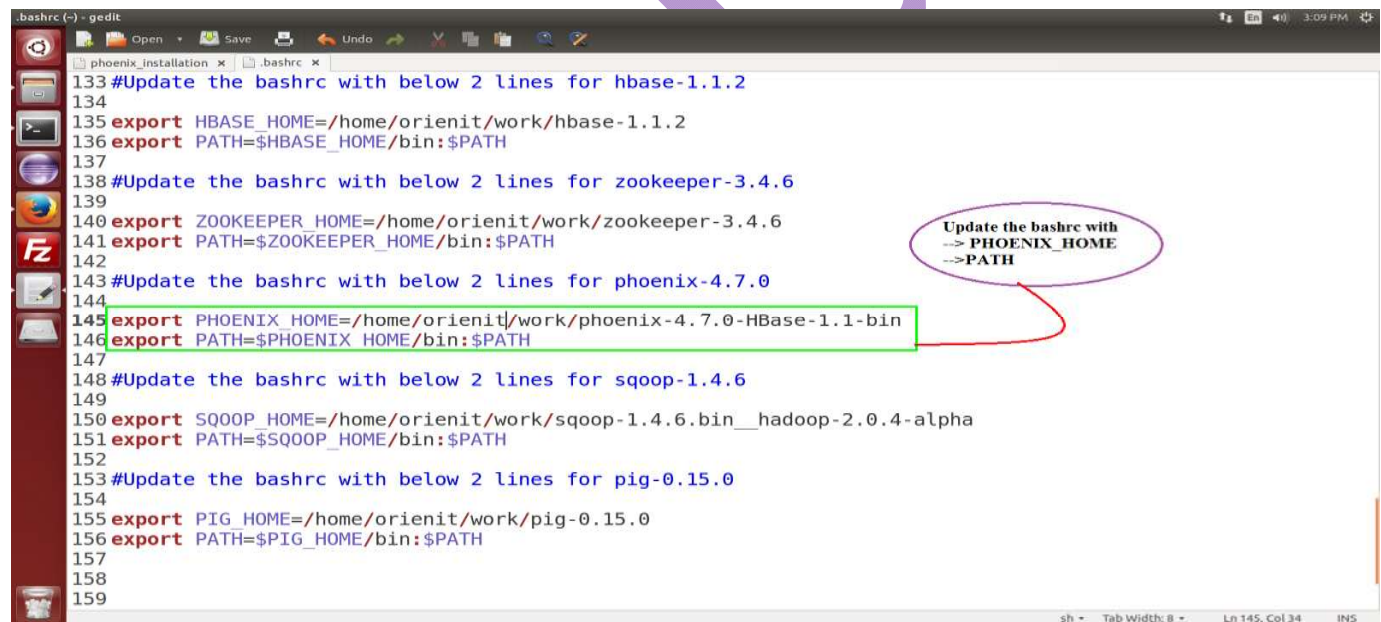
1. Download the **Phoenix-4.7.0** tar file from **Apache Mirrors**.
2. Follow the below screen shot steps.

3. Open the **~/.bashrc** file and update the **PHOENIX_HOME** information.

export PHOENIX_HOME=/home/orienit/work/phoenix-4.7.0-HBase-1.1-bin
export PATH=$PHOENIX_HOME/bin:$PATH

4. To integrate Phoenix with Hbase we need to add few jars from **$PHOENIX_HOME** folder to **$HBASE_HOME/lib** folder.

   cp $PHOENIX_HOME/phoenix-4.7.0-HBase-1.1-server.jar $HBASE_HOME/lib
   cp $PHOENIX_HOME/phoenix-4.7.0-HBase-1.1-client.jar $HBASE_HOME/lib

orienit@Kalyan:~$ cp $PHOENIX_HOME/phoenix-4.7.0-HBase-1.1-server.jar $HBASE_HOME/lib
orienit@Kalyan:~$ cp $PHOENIX_HOME/phoenix-4.7.0-HBase-1.1-client.jar $HBASE_HOME/lib
orienit@Kalyan:~$

When we execute the above two jars then phoenix integration done with hbase

5. After copying above two jars then we need to restart the hbase (this operation is mandatory)

stop-hbase.sh

start-hbase.sh

orienit@Kalyan:~$ cp $PHOENIX_HOME/phoenix-4.7.0-HBase-1.1-server.jar $HBASE_HOME/lib
orienit@Kalyan:~$ cp $PHOENIX_HOME/phoenix-4.7.0-HBase-1.1-client.jar $HBASE_HOME/lib
orienit@Kalyan:~$ stop-hbase.sh
stopping hbase.................
localhost: stopping zookeeper.
orienit@Kalyan:~$ start-hbase.sh
localhost: starting zookeeper, logging to /home/orienit/work/hbase-1.1.2/bin/../logs/hbase-orie
nit-zookeeper-Kalyan.out
localhost: SLF4J: Class path contains multiple SLF4J bindings.
localhost: SLF4J: Found binding in [jar:file:/home/orienit/work/hbase-1.1.2/lib/phoenix-4.6.0-H
Base-1.1-client.jar!/org/slf4j/impl/StaticLoggerBinder.class]
localhost: SLF4J: Found binding in [jar:file:/home/orienit/work/hbase-1.1.2/lib/phoenix-4.7.0-H
Base-1.1-client.jar!/org/slf4j/impl/StaticLoggerBinder.class]
localhost: SLF4J: Found binding in [jar:file:/home/orienit/work/hbase-1.1.2/lib/slf4j-log4j12-1
.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
localhost: SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
starting master, logging to /home/orienit/work/hbase-1.1.2/logs/hbase-orienit-master-Kalyan.out
starting regionserver, logging to /home/orienit/work/hbase-1.1.2/logs/hbase-orienit-1-regionser
ver-Kalyan.out
orienit@Kalyan:~$
orienit@Kalyan:~$

After executing the jars we need to restart the habase for that we have to use command "kill -9 <process name_id>

6. Execute the below command to work with sample phoenix example.

**psql.py localhost $PHOENIX_HOME/examples/WEB_STAT.sql
$PHOENIX_HOME/examples/WEB_STAT.csv
$PHOENIX_HOME/examples/WEB_STAT_QUERIES.sql**

Wait for this command to complete the action, follow the below screen shot

```
orienit@Kalyan:~$ psql.py localhost $PHOENIX_HOME/examples/WEB_STAT.sql $PHOENIX_HOME/examples/
WEB_STAT.csv $PHOENIX_HOME/examples/WEB_STAT_QUERIES.sql
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/orienit/work/phoenix-4.7.0-HBase-1.1-bin/phoenix-4.7.0-
HBase-1.1-client.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/hadoop-2.6.0/share/hadoop/common/lib/slf4j
-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
16/09/07 17:49:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pla
tform... using builtin-java classes where_applicable
no rows upserted          Before start the phoenix we need to execute the above query.
Time: 2.336 sec(s)

csv columns from database.
CSV Upsert complete. 39 rows upserted
Time: 0.21 sec(s)

DOMAIN                                              AVERAGE_CPU_USAGE
          AVERAGE_DB_USAGE
-------------------------------------------- -------------------------------------- --------------
---------------------------
Salesforce.com                                                   260.727
                   257.636
Google.com                                                       212.875
                   213.75
Apple.com                                                        114.111
                   119.556
Time: 0.051 sec(s)
```

```
DAY                                           TOTAL_CPU_USAGE                              MIN
_CPU_USAGE                          MAX_CPU_USAGE
--------------------------- -------------------------------------------- -------------------------
---------- --------------------------------------------
2013-01-01 00:00:00.000                                    35
           35                          35
2013-01-02 00:00:00.000                                   150
           25                         125
2013-01-03 00:00:00.000                                    88
           88                          88
2013-01-04 00:00:00.000                                    26
            3                          23
2013-01-05 00:00:00.000                                   550
           75                         475
2013-01-06 00:00:00.000                                    12
           12                          12
2013-01-08 00:00:00.000                                   345
          345                         345
2013-01-09 00:00:00.000                                   390
           35                         355
2013-01-10 00:00:00.000                                   345
          345                         345
2013-01-11 00:00:00.000                                   335
          335                         335
2013-01-12 00:00:00.000                                     5
```

```
2013-01-09 00:00:00.000                              390
         35                          355
2013-01-10 00:00:00.000                              345
        345                          345
2013-01-11 00:00:00.000                              335
        335                          335
2013-01-12 00:00:00.000                                5
          5                            5
2013-01-13 00:00:00.000                              355
        355                          355
2013-01-14 00:00:00.000                                5
          5                            5
2013-01-15 00:00:00.000                              720
         65                          655
2013-01-16 00:00:00.000                              785
        785                          785
2013-01-17 00:00:00.000                             1590
        355                         1235
Time: 0.036 sec(s)


HO                     TOTAL_ACTIVE_VISITORS
-- -------------------------------------
EU                               150
NA                                 1
Time: 0.03 sec(s)

orienit@Kalyan:~$
```

7. To **connect to Phoenix** execute the below command
   "**sqlline.py localhost**"

```
orienit@Kalyan:~$ sqlline.py localhost   This command is used to start the phoenix
Setting property: [incremental, false]
Setting property: [isolation, TRANSACTION_READ_COMMITTED]
issuing: !connect jdbc:phoenix:localhost none none org.apache.phoenix.jdbc.PhoenixDriver
Connecting to jdbc:phoenix:localhost
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/orienit/work/phoenix-4.7.0-HBase-1.1-bin/phoenix-4.7.0-
HBase-1.1-client.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/hadoop-2.6.0/share/hadoop/common/lib/slf4j
-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
16/09/07 17:51:44 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pla
tform... using builtin-java classes where applicable
Connected to: Phoenix (version 4.7)
Driver: PhoenixEmbeddedDriver (version 4.7)
Autocommit status: true
Transaction isolation: TRANSACTION_READ_COMMITTED
Building list of tables and columns for tab-completion (set fastconnect to true to skip)...
90/90 (100%) Done
Done                         when we execute the above command then it will goes to phoenix
sqlline version 1.1.8        terminal
0: jdbc:phoenix:localhost>
```

8. Show the **tables in phoenix** execute the below command.
   "!tables"

This is phoenix terminal, if you want show the tables then we will execute above command