Install Apache Hive and Apache Pig

Install Hive:

1. Get apache hive from https://hive.apache.org/downloads.html (you may use a mirror like: http://www.webhostingreviewjam.com/mirror/apache/hive/) [for you apache hive is already available in the software bundle given to you]

2. Execute the following commands to install hive:
   $ tar zxvf /home/training/lab/install/apache-hive-1.2.2-bin.tar.gz -C /u01/
   $ln -s /u01/apache-hive-1.2.2-bin /u01/hive

3. Create the hive warehouse folder in hdfs file system
   $hadoop fs -mkdir -p /user/hive/warehouse

4. Edit $HOME/ .bashrc file to update with HIVE_HOME and HIVE PATH
   HIVE_HOME=/u01/hive
   PATH=$HIVE_HOME/bin:$PATH
   export HIVE_HOME PATH

5. Copy $HIVE_HOME/conf/hive-default.xml.template $HIVE_HOME/conf/hive-site.xml

   $ cp /usr/local/hive/conf/hive-default.xml.template /usr/local/hive/conf/hive-site.xml

6. Edit $HIVE_HOME/conf/hive-site.xml
   $ vi /usr/local/hive/conf/hive-site.xml

   Update the value for the property named hive.metastore.warehouse.dir as given
   ```
   <property>
    <name>hive.metastore.warehouse.dir</name>
    <value>/user/hive/warehouse</value>
    <description>location of default database for the warehouse</description>
   </property>
   ```
7. Open a terminal run hive (hdfs must be running)

   [hduser@localhost ~]$ hive

   hive>

   Note: hive prompt shows that hive is running.

8. Test hive by creating a table as given.
   ```
   hive> create table demo (name string);
   OK
   Time taken: 5.737 seconds
   hive> show tables;
   OK
   demo
   Time taken: 0.188 seconds, Fetched: 1 row(s)
   hive>
   ```

   The success status shows that hive is working properly and it is using the metastore.

Install Pig:

1. Get pig from https://pig.apache.org/releases.html#Download (for you apache pig is already available in the software bundle)
2. To install apache pig follow sequence of command given below:
   $ tar zxvf /home/training/lab/install/pig-0.17.0.tar.gz -C /u01/
   $ ln -s /u01/pig-0.17.0 /u01/pig

3. Edit $HOME/.bashrc file to update with PIG_HOME and PIG PATH
   PIG_HOME=/usr/local/pig
   PATH=$PIG_HOME/bin:$PATH
   export PIG_HOME PATH
4. Run pig as follows

   $ pig

   2015-04-06 21:49:57,731 [main] INFO org.apache.pig.Main - Apache Pig version 0.17.0 (r1529718) compiled Oct 07 2013, 12:20:14

   2015-04-06 21:49:57,732 [main] INFO org.apache.pig.Main - Logging error messages to: /home/hduser/pig_1428337197729.log

   2015-04-06 21:49:57,770 [main] INFO org.apache.pig.impl.util.Utils - Default bootup file /home/hduser/.pigbootup not found

   2015-04-06 21:49:57,958 [main] INFO org.apache.pig.backend.hadoop.executionengine.HExecutionEngine - Connecting to hadoop file system at: hdfs://localhost:54310

   2015-04-06 21:49:58,148 [main] INFO org.apache.pig.backend.hadoop.executionengine.HExecutionEngine - Connecting to map-reduce job tracker at: localhost:54311

   grunt>

   The above prompt shows pig is configured.