Pre-Milestone 2 Monitoring

WQD7005 - DATA MINING

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- Step 1: Verifying JAVA Installation. ...
- Step 2: Verifying Hadoop Installation. ...
- Step 4: Installing Hive. ...
- Step 5: Configuring Hive. ...
- Step 6: Downloading and Installing Apache Derby. ...
- Step 7: Configuring Metastore of Hive. ...
- Step 8: Verifying Hive Installation. ...

Step 1: Verifying JAVA Installation. ...

```
File Edit View Search Terminal Help
(base) zulkanh@elitebook:~$ java -version
openjdk version "11.0.4" 2019-07-16
OpenJDK Runtime Environment (build 11.0.4+11-post-Ubuntu-1ubuntu218.04.3)
OpenJDK 64-Bit Server VM (build 11.0.4+11-post-Ubuntu-1ubuntu218.04.3, mixed mod
e, sharing)
(base) zulkanh@elitebook:~$
```

```
File Edit View Search Terminal Help
(base) zulkanh@elitebook:~$ sudo update-alternatives --config java
[sudo] password for zulkanh:
There are 2 choices for the alternative java (providing /usr/bin/java).
 Selection
               Path
                                                                 Priority
                                                                            Status
               /usr/lib/jvm/java-11-openjdk-amd64/bin/java
 0
                                                                  1101
                                                                            auto m
ode
               /usr/lib/jvm/java-11-openjdk-amd64/bin/java
                                                                  1101
                                                                            manual
mode
```

Press <enter> to keep the current choice[*], or type selection number:

mode

/usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java

1081

manual

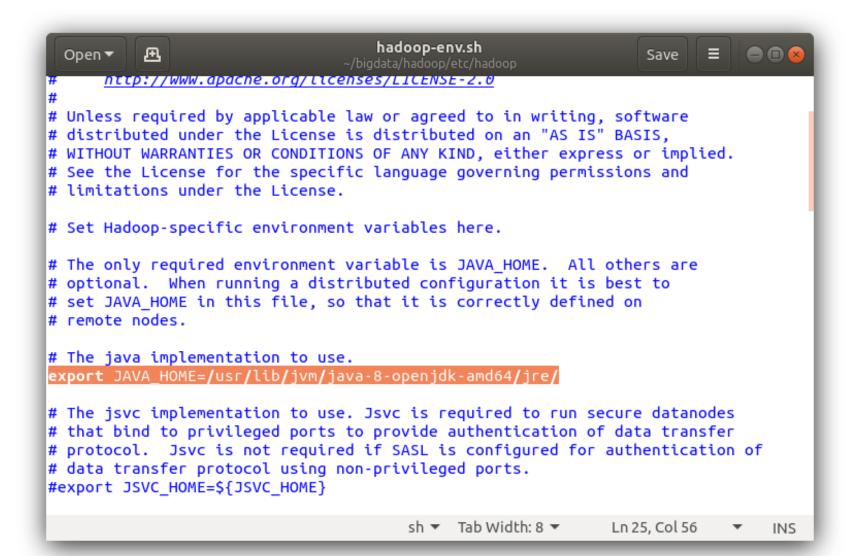
```
File Edit View Search Terminal Help

(base) zulkanh@elitebook:~$ update-java-alternatives --list

java-1.11.0-openjdk-amd64 1111 /usr/lib/jvm/java-1.11.0-openjdk-amd64

java-1.8.0-openjdk-amd64 1081 /usr/lib/jvm/java-1.8.0-openjdk-amd64

(base) zulkanh@elitebook:~$
```

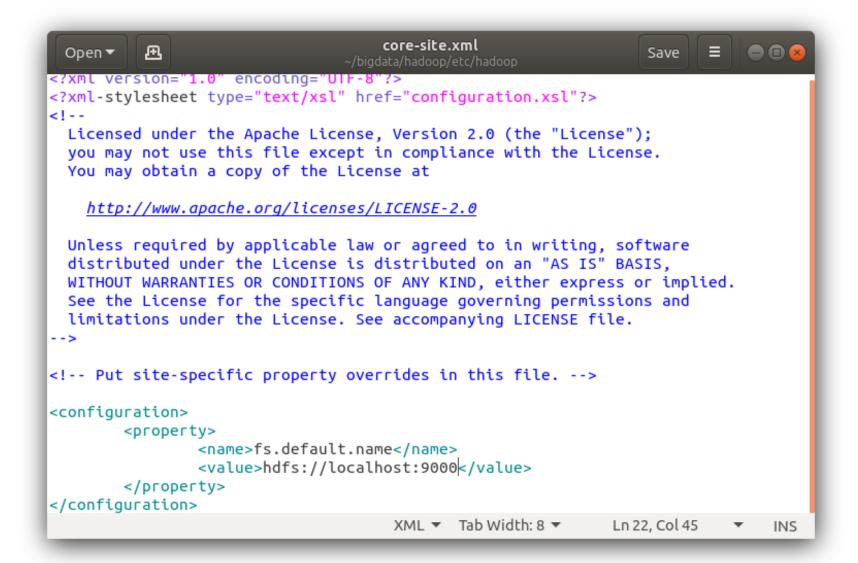


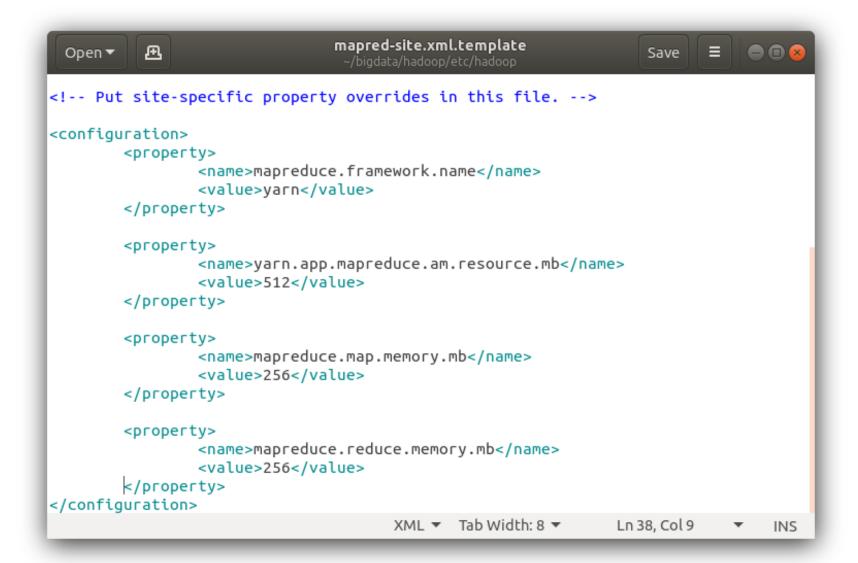
Step 2: Verifying Hadoop Installation. ...

```
File Edit View Search Terminal Help
(base) zulkanh@elitebook:~$ java -version
openjdk version "11.0.4" 2019-07-16
OpenJDK Runtime Environment (build 11.0.4+11-post-Ubuntu-1ubuntu218.04.3)
OpenJDK 64-Bit Server VM (build 11.0.4+11-post-Ubuntu-1ubuntu218.04.3, mixed mod
e, sharing)
(base) zulkanh@elitebook:~$ hadoop version
Hadoop 2.7.7
Subversion Unknown -r c1aad84bd27cd79c3d1a7dd58202a8c3ee1ed3ac
Compiled by stevel on 2018-07-18T22:47Z
Compiled with protoc 2.5.0
From source with checksum 792e15d20b12c74bd6f19a1fb886490
This command was run using /home/zulkanh/bigdata/hadoop/share/hadoop/common/hado
op-common-2.7.7.jar
(base) zulkanh@elitebook:~$
```

```
.bashrc
          Ð
                                                                           Open ▼
                                                                 Save
    else
        \export PATH="/home/zulkanh/anaconda3/bin:$PATH"
   fi
fi
unset __conda_setup
# <<< conda init <<<
# bigdata/hadoop
export PATH=$PATH:/home/zulkanh/bigdata/hadoop/bin
export PATH=$PATH:/home/zulkanh/bigdata/hadoop/sbin
# bigdata/sgoop
export PATH=$PATH:/home/zulkanh/bigdata/sqoop/bin
# bigdata/hbase
export PATH=$PATH:/home/zulkanh/bigdata/hbase/bin
#bigdata/hive
export PATH=$PATH:/home/zulkanh/bigdata/hive/bin
#bigdata/pig
export PATH=$PATH:/home/zulkanh/bigdata/pig/bin
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64/jre/
                                       sh ▼ Tab Width: 8 ▼
                                                            Ln 138, Col 52
                                                                              INS
```

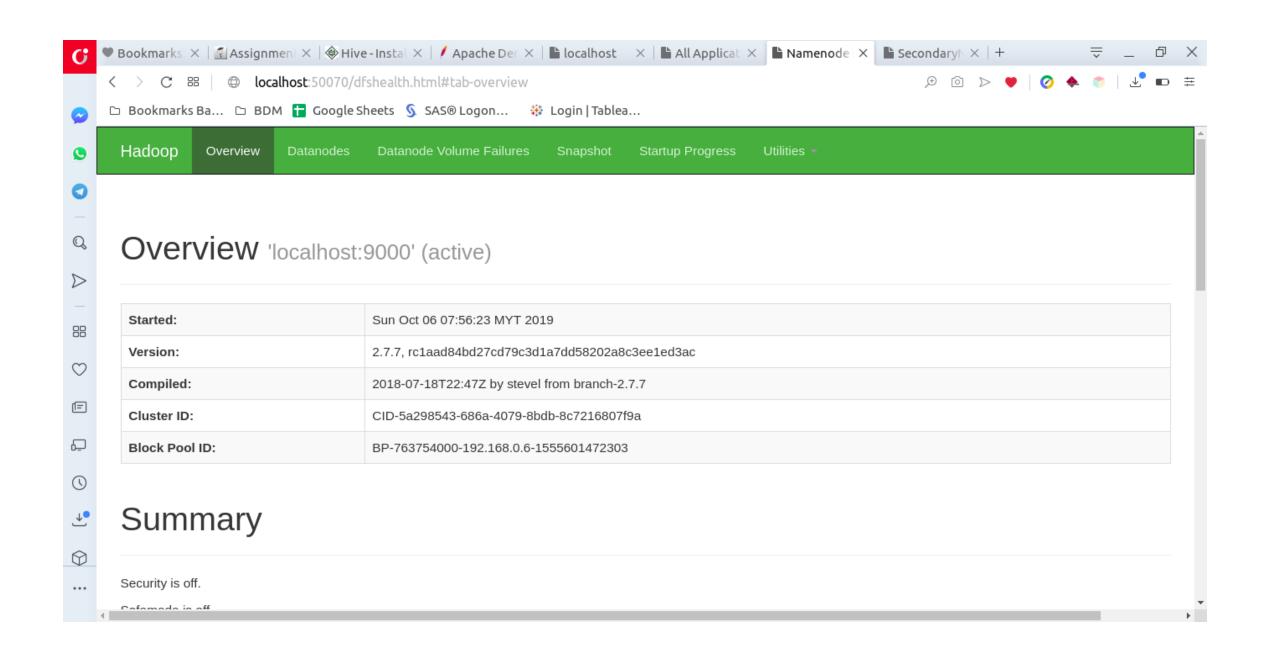
```
hdfs-site.xml
         Æ
                                                                      Open ▼
 distributed under the License is distributed on an "AS IS" BASIS.
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
 limitations under the License. See accompanying LICENSE file.
-->
<!-- Put site-specific property overrides in this file. -->
<configuration>
       cproperty>
               <name>dfs.namenode.name.dir
               <value>/home/zulkanh/bigdata/hadoop/data/nameNode</value>
       </property>
        cproperty>
               <name>dfs.datanode.data.dir
               <value>/home/zulkanh/bigdata/hadoop/data/dataNode</value>
       </property>
       cproperty>
               <name>dfs.replication</name>
               <value>1</value>
       </property>
</configuration>
                                    XML ▼ Tab Width: 8 ▼
                                                            Ln 20, Col 1
                                                                             INS
```

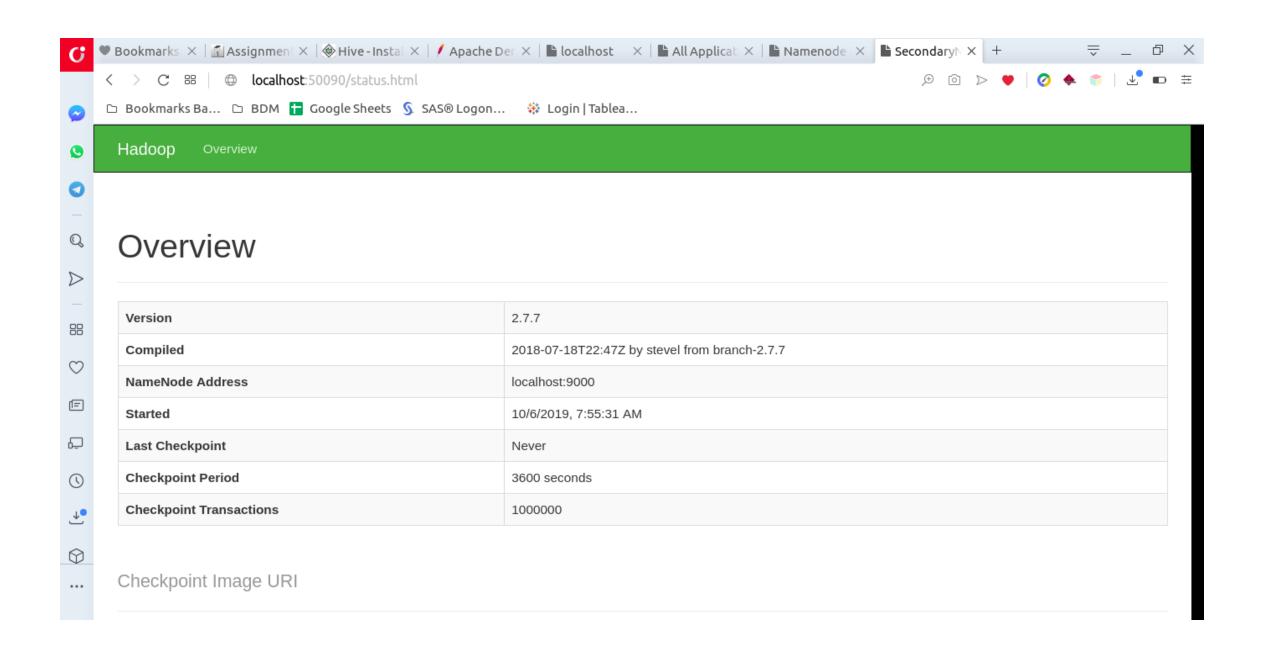


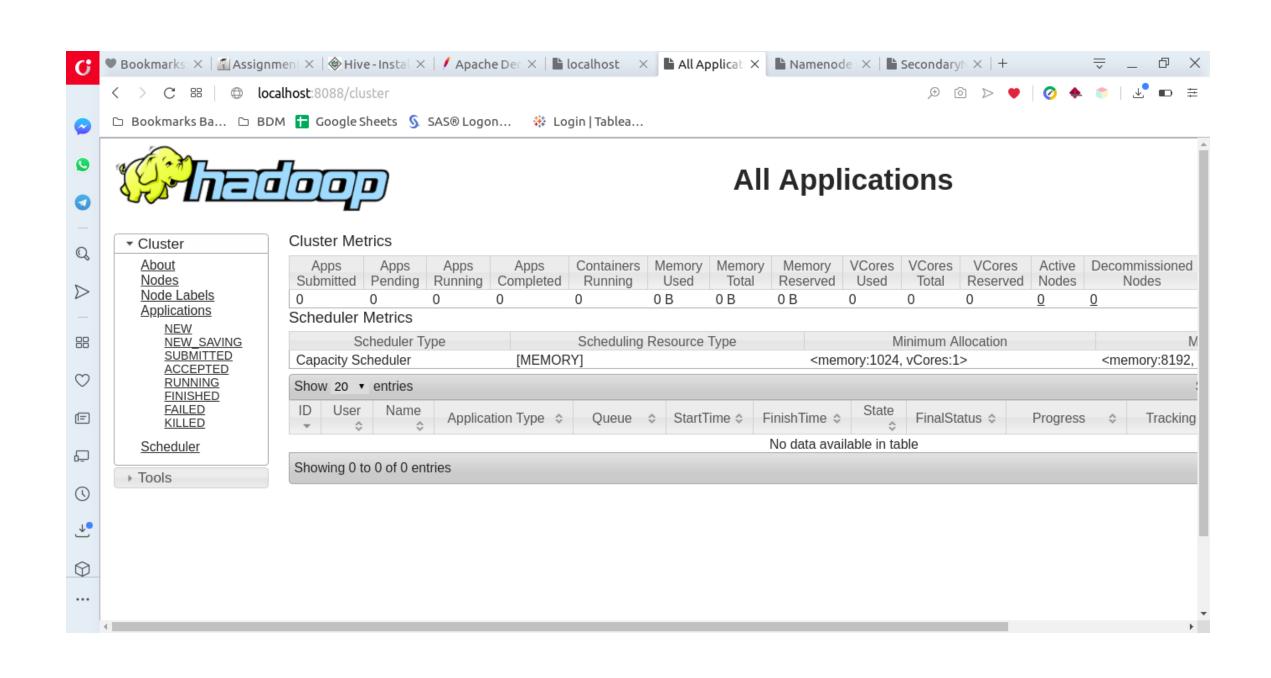




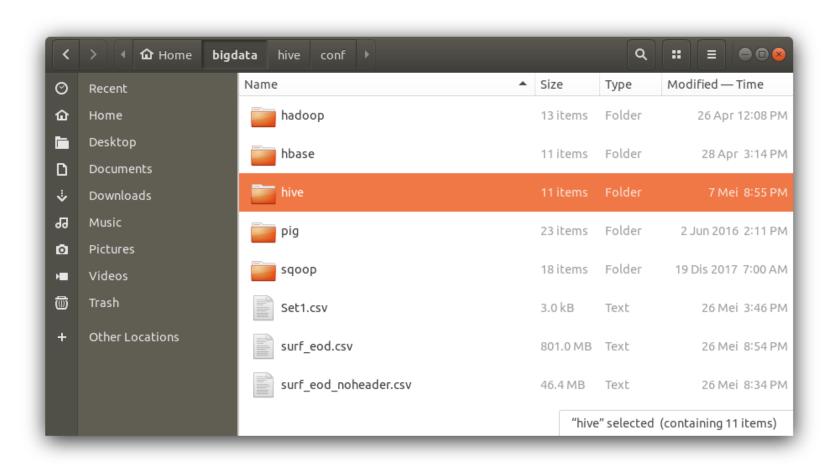
```
File Edit View Search Terminal Help
(base) zulkanh@elitebook:~$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
Starting namenodes on [localhost]
zulkanh@localhost's password:
localhost: starting namenode, logging to /home/zulkanh/bigdata/hadoop/logs/hadoop-zulkanh-namenode-elitebook.out
zulkanh@localhost's password:
localhost: starting datanode, logging to /home/zulkanh/bigdata/hadoop/logs/hadoop-zulkanh-datanode-elitebook.out
Starting secondary namenodes [0.0.0.0]
zulkanh@0.0.0.0's password:
0.0.0.0: starting secondarynamenode, logging to /home/zulkanh/bigdata/hadoop/logs/hadoop-zulkanh-secondarynamenode-elitebook.out
starting yarn daemons
starting resourcemanager, logging to /home/zulkanh/bigdata/hadoop/logs/yarn-zulkanh-resourcemanager-elitebook.out
zulkanh@localhost's password:
localhost: starting nodemanager, logging to /home/zulkanh/bigdata/hadoop/logs/yarn-zulkanh-nodemanager-elitebook.out
(base) zulkanh@elitebook:~$ jps
12273 SecondaryNameNode
11921 NameNode
12436 ResourceManager
12644 Jps
7576 RunJar
12601 NodeManager
12079 DataNode
(base) zulkanh@elitebook:~$
```

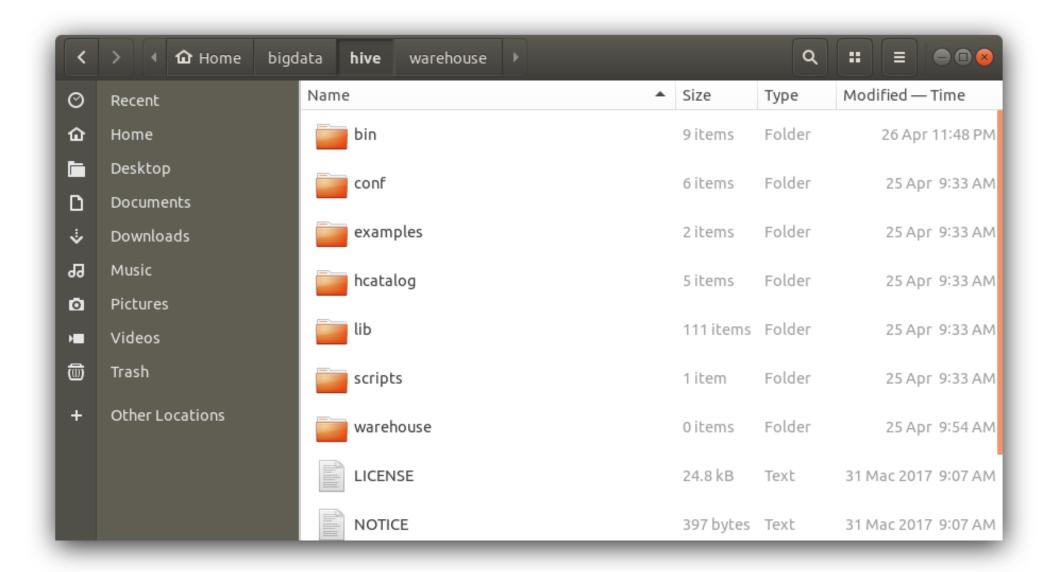






Step 4: Installing Hive. ...



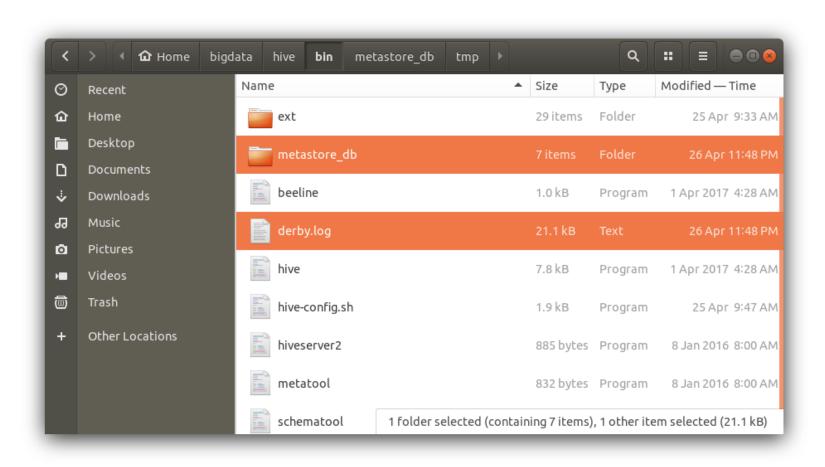


Step 5: Configuring Hive. ...

```
hive-config.sh
         Æ
 Open ▼
        HIVE_CONF_DIR=$confdir
    --auxpath)
        shift
        HIVE_AUX_JARS_PATH=$1
        shift
        ;;
        break;
        ;;
  esac
done
# Allow alternate conf dir location.
HIVE_CONF_DIR="${HIVE_CONF_DIR:-$HIVE_HOME/conf}"
export HIVE_CONF_DIR=$HIVE_CONF_DIR
export HIVE_AUX_JARS_PATH=$HIVE_AUX_JARS_PATH
# Default to use 256MB
export HADOOP_HEAPSIZE=${HADOOP_HEAPSIZE:-256}
export HADOOP_HOME=/home/zulkanh/bigdata/hadoop
                                       sh ▼ Tab Width: 8 ▼
                                                              Ln 72, Col 48
                                                                              INS
```

```
.bashrc
          Ð
                                                                           Open ▼
                                                                 Save
    else
        \export PATH="/home/zulkanh/anaconda3/bin:$PATH"
    fi
fi
unset __conda_setup
# <<< conda init <<<
# bigdata/hadoop
export PATH=$PATH:/home/zulkanh/bigdata/hadoop/bin
export PATH=$PATH:/home/zulkanh/bigdata/hadoop/sbin
# bigdata/sqoop
export PATH=$PATH:/home/zulkanh/bigdata/sqoop/bin
# bigdata/hbase
export PATH=$PATH:/home/zulkanh/bigdata/hbase/bin
#bigdata/hive
export PATH=$PATH:/home/zulkanh/bigdata/hive/bin
#bigdata/pig
export PATH=$PATH:/home/zulkanh/bigdata/pig/bin
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64/jre/
                                       sh ▼ Tab Width: 8 ▼
                                                            Ln 147, Col 49
                                                                              INS
```

Step 6: Downloading and Installing Apache Derby. ...



Step 7: Configuring Metastore of Hive. ...

```
hive-site.xml
 Open ▼
   <value>true</value>
 </property>
 cproperty>
   <name>hive.metastore.warehouse.dir
   <value>${test.build.data}/sqoop/warehouse</value>
 </property>
 cproperty>
   <name>hive.metastore.uris</name>
   <value></value>
 </property>
 property>
   <name>javax.jdo.option.ConnectionURL</name>
 </property>
   <value>org.apache.derby.jdbc.EmbeddedDriver</value>
 </property>
 operty>
   <name>hive.querylog.location
   <value>${test.build.data}/sqoop/logs</value>
 </property>
</configuration>
                                    XML ▼ Tab Width: 8 ▼
                                                           Ln 42, Col 14
                                                                            INS
```

Step 8: Verifying Hive Installation. ...

```
File Edit View Search Terminal Help
(base) zulkanh@elitebook:~$ hive;
Logging initialized using configuration in jar:file:/home/zulkanh/bigdata/hive/l
ib/hive-common-1.2.2.jar!/hive-log4j.properties
hive> create database wqd7005;
Time taken: 1.095 seconds
hive> show databases;
OK
default
wqd7005
wqd7007
Time taken: 0.315 seconds, Fetched: 3 row(s)
hive>
```