ASSIGNMENT

Task1: Spark-Hive Integration

Sol: Step1: copy the hive-site.xml file from \$HIVE-HOME conf folder to \$SPARK-HOME conf folder

→ cp /home/acadgild/install/hive/apache-hive-2.3.2-bin/conf/hive-site.xml /home/acadgild/install/spark/spark-2.2.1-bin-hadoop2.7/conf

Step2: edit the hive-site.xml file

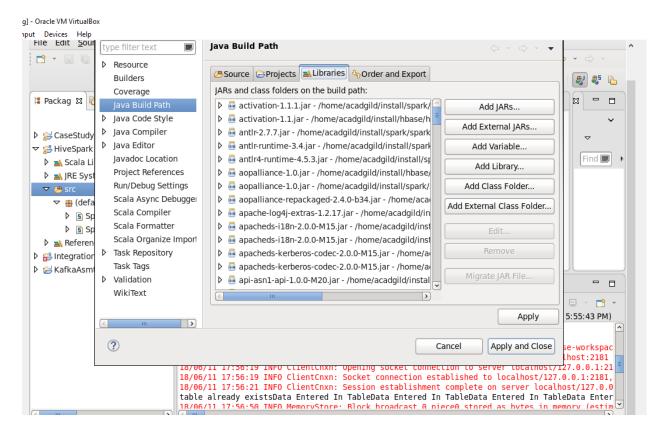
- → vi hive-site.xml
- → enter the following property tags in configuration
- → <pr

```
<name>hive.metastore.uris</name>
  <value>thrift://localhost:9083</value>
  <description>password for connecting to mysql server</description>
```

acadgild@localhost:~/install/spark/spark-2.2.1-bin-hadoop2.7/conf

```
</property>
property>
 <name>javax.jdo.option.ConnectionPassword</name>
 <value>Root@123</value>
</property>
property>
 <name>datanucleus.autoCreateSchema</name>
 <value>true</value>
</property>
property>
 <name>datanucleus.fixedDatastore
 <value>true</value>
</property>
cproperty>
<name>datanucleus.autoCreateTables
<value>True</value>
</property>
property>
 <name>hive.metastore.uris
 <value>thrift://localhost:9083</value>
 <description>password for connecting to mysql server</description>
</property>
```

Step4: Add the jar files from spark and hbase folders

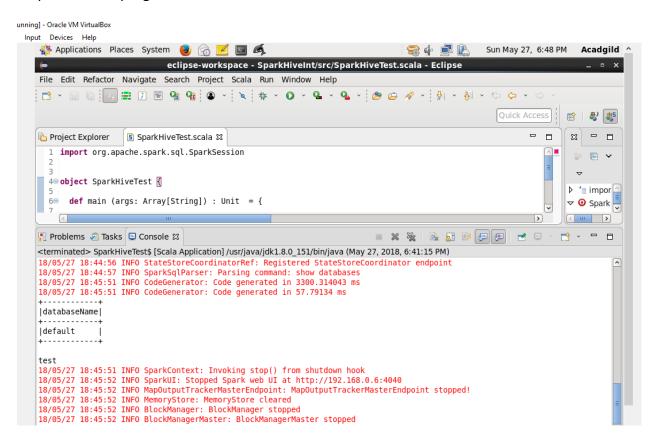


Step5: start hive server2

→ Hive –service metastore

```
🧬 acadgild@localhost:
 [acadgild@localhost ~]$ hive --service metastore
2018-06-11 17:49:45: Starting Hive Metastore Server
 /home/acadgild/install/hive/apache-hive-2.3.2-bin/bin/ext/metastore.sh: line 29:
export: `-Dproc_metastore -Dlog4j.configurationFile=hive-log4j2.properties -Djava.util.logging.config.file=/home/acadgild/install/hive/apache-hive-2.3.2-bin
/conf/parquet-logging.properties ': not a valid identifier SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-
bin/lib/log4j-slf4j-impl-2.6.2.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory] 2018-06-11T17:49:54,399 INFO [main] org.apache.hadoop.hive.conf.HiveConf - Found configuration file file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/conf/
2018-06-11T17:50:01,387 INFO [main] org.apache.hadoop.hive.metastore.HiveMetaSto
re - STARTUP MSG:
 STARTUP_MSG: Starting HiveMetaStore
STARTUP MSG:
                        host = localhost/127.0.0.1
STARTUP_MSG:
STARTUP_MSG:
                        version = 2.3.2
STARTUP_MSG: classpath = /home/acadgild/install/hive/apache-hive-2.3.2-bin/con f:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/accumulo-core-1.6.0.jar:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/accumulo-fate-1.6.0.jar:/h
ome/acadgild/install/hive/apache-hive-2.3.2-bin/lib/accumulo-start-1.6.0.jar:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/accumulo-trace-1.6.0.jar:/hom
e/acadgild/install/hive/apache-hive-2.3.2-bin/lib/activation-1.1.jar:/home/acadg
ild/install/hive/apache-hive-2.3.2-bin/lib/aether-api-0.9.0.M2.jar:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/aether-connector-file-0.9.0.M2.jar:/hom
e/acadgild/install/hive/apache-hive-2.3.2-bin/lib/aether-connector-okhttp-0.0.9.
jar:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/aether-impl-0.9.0.M2.j
ar:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/aether-spi-0.9.0.M2.jar
```

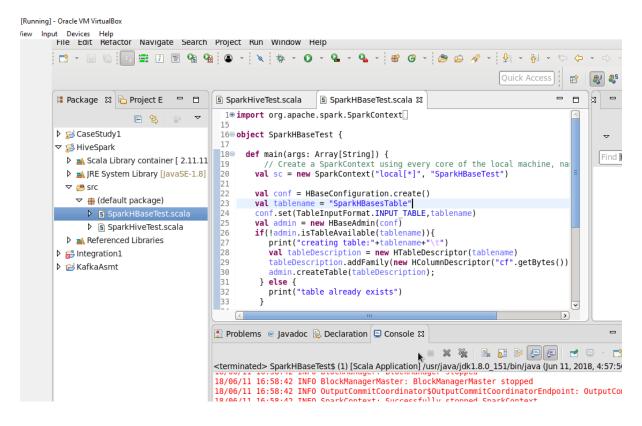
Step6: Run the program



Task2: Spark-Hbase Integration

Sol: Step1: Add the code to same scala project.

→ SparkHbaseTest.scala // program file



Step2: Run the program.

Step3: In Putty -> cd install/hbase/hbase-1.2.6/bin

./start-hbase.sh // start hbase

hbase shell // start hbase shell

scan "SparkHbasesTable"

```
hbase(main):001:0> scan "SparkHBasesTable"
ROW
                             COLUMN+CELL
                             column=cf:column1, timestamp=1528716512101, value=value1
column=cf:column1, timestamp=1528716512269, value=value10
 row1
 row2
                             column=cf:column1, timestamp=1528716512180, value=value2
 row3
                             column=cf:column1, timestamp=1528716512194, value=value3
                             column=cf:column1, timestamp=1528716512204, value=value4 column=cf:column1, timestamp=1528716512209, value=value5 column=cf:column1, timestamp=1528716512214, value=value6
 row4
 row5
 row6
 row7
                             column=cf:column1, timestamp=1528716512227, value=value7
                             column=cf:column1, timestamp=1528716512242, value=value8
 row8
                             column=cf:column1, timestamp=1528716512259, value=value9
 row9
10 row(s) in 1.3850 seconds
hbase(main):002:0>
```