Exp. No : 5

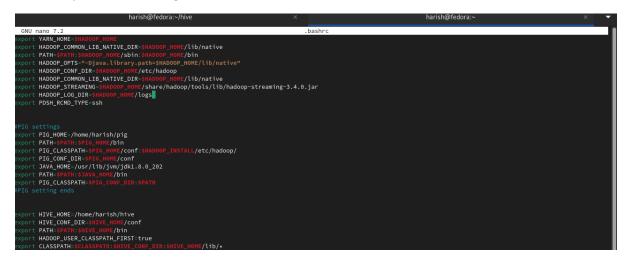
HIVE Installation

1. Download and Extract apache hive 3.1.2

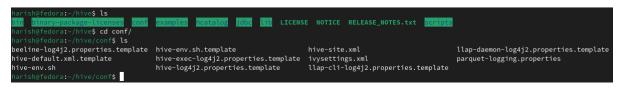
```
harish@fedora:~/hive$ ls

bin binary-package-licenses conf examples hcatalog idbc lib LICENSE NOTICE RELEASE_NOTES.txt scripts
harish@fedora:~/hive$
```

2. Update HIVE Configurations in .bashrc



3. Change directory to apache-hive-3.1.2-bin/conf



4. Create hive-env.sh

harish@fedora:~/hive/conf

```
if [ "$SERVICE" = "cli" ]; then
if [ -z "$DEBUG" ]; then
export HADOOP_OPTS="$HADOOP_OPTS -XX:NewRatio=12 -Xms10m -XX:MaxHeapFreeRatio=40 -XX:MinHeapFreeRatio
else
export HADOOP_OPTS="$HADOOP_OPTS -XX:NewRatio=12 -Xms10m -XX:MaxHeapFreeRatio=40 -XX:MinHeapFreeRatio
fi

The heap size of the jvm stared by hive shell script can be controlled via:
export HADOOP_HEAPSIZE=1024

Larger heap size may be required when running queries over large number of files or partitions.
By default hive shell scripts use a heap size of 256 (MB). Larger heap size would also be
appropriate for hive server.

Set HADOOP_HOME to point to a specific hadoop install directory
HADOOP_HOME=${bin}/../../hadoop

Hive Configuration Directory can be controlled by:
export HIVE_CONF_DIR=

Folder containing extra libraries required for hive compilation/execution can be controlled by:
export HIVE_AUX_JARS_PATH=

EXPORT HADOOP_HOME=/home/harish/hadoop
EXPORT HIVE_CONF_DIR=/home/harish/hive/conf
```

5. Install and Change mysql root password

```
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.39 Source distribution
Copyright (c) 2000, 2024, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> SELECT user, host, plugin FROM mysql.user WHERE user = 'root';
| root | localhost | mysql_native_password |
1 row in set (0.00 sec)
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH 'mysql_native_password' BY 'hayag
Query OK, 0 rows affected (0.62 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.12 sec)
mysql>
```

6. Create and configure hive-site.xml

```
GNU nano 7.2
                                      hive-site.xml
<name>javax.jdo.option.ConnectionURL</name>
:value>jdbc:mysql://localhost/metastore?createDatabaseIfNotExist=true</value>
<name>javax.jdo.option.ConnectionDriverName</name>
(value>com.mysql.cj.jdbc.Driver</value>
<name>javax.jdo.option.ConnectionUserName</name>
(value>root</value>
<name>javax.jdo.option.ConnectionPassword</name>
<value>hayagreevan</value>
cname>datanucleus.autoCreateSchema</name>
 value>true</value>
<name>datanucleus.fixedDatastore</name>
(value>true</value>
<name>datanucleus.autoCreateTables
<value>True</value>
^G Help
              ^O Write Out
                            ^W Where Is
                                          ^K Cut
                                                         ^T Execute
                                                                       ^C Location
  Exit
                                             Paste
                               Replace
```

7. Download and Move mysql java connector to apache-hive-3.1.2-bin/lib

8. Execute schematool -initSchema -dbType mysql

9. Start hive

```
narish@fedora:~/hive/lib$ hive
which: no hbase in (/home/harish/.local/bin:/home/harish/bin:/
rish/pig/bin:/usr/lib/jvm/jdk1.8.0_202/bin:/home/harish/hive/b
me/harish/hive/bin)
Hive Session ID = 72f6d993-0190-4d45-bd88-71acc8c52db4

Logging initialized using configuration in jar:file:/home/hari
Hive Session ID = 6d0c44f6-0f4e-4f77-8b7b-783351811c7d
Hive-on-MR is deprecated in Hive 2 and may not be available ir
ases.
hive>
```