# Exp: 5

# **Installation of Hive**

# Aim:

To Download and install Hive, Understanding Startup scripts, Configuration files.

# **Procedure:**

# Step 1: Download and extract it

Download the Apache hive and extract it use tar, the commands given below:

\$wgethttps://downloads.apache.org/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz

\$ tar -xvf apache-hive-3.1.2-bin.tar.gz

# Step 2: Place different configuration properties in Apache Hive

In this step, we are going to do two things o Placing Hive Home path in bashrc file

\$nano .bashrc

And append the below lines in it

```
export HIVE_HOME="/home/haresh/apache-hive-3.1.2-bin"
export HIVE_CONF_DIR=$HIVE_HOME/conf
export PATH=$PATH:$HIVE_HOME/bin
export HADOOP_USER_CLASSPATH_FIRST=true
```

2. Exporting Hadoop path in Hive-config.sh (To communicate with the Hadoop eco system we are defining Hadoop Home path in hive config field) Open the hiveconfig.sh as shown in below \$cd apache-hive-3.1.2-bin/bin

\$cp hive-env.sh.template hive-env.sh

\$nano hive-env.sh

Append the below commands on it

export HADOOP HOME=/home/Hadoop/Hadoop

export HIVE CONF DIR=/home/Hadoop/apache-hive-3.1.2/conf

```
export HADOOP_HOME=$HADOOP_HOME
export HIVE_CONF_DIR=$HIVE_CONF_DIR
```

Step 3: Install mysql

```
$nano hive-site.xml
Append these lines into it
Replace root as your username of MySQL
Replaceyour new password as with your password of MySQL
<configuration>
property>
<name>javax.jdo.option.ConnectionURL</name>
<value>jdbc:mysql://localhost/metastore?createDatabaseIfNotExist=true</value>
property>
<name>javax.jdo.option.ConnectionDriverName</name>
<value>com.mysql.cj.jdbc.Driver</value>
property>
<name>javax.jdo.option.ConnectionUserName</name>
<value>root</value>
property>
<name>javax.jdo.option.ConnectionPassword</name>
<value>your new password</value>
</property>
property>
<name>datanucleus.autoCreateSchema</name>
<value>true</value>
property>
<name>datanucleus.fixedDatastore</name>
<value>true</value>
property>
```

<name>datanucleus.autoCreateTables</name>

<value>True</value>

</configuration>

### **Step 5: Setup MySQL java connector:**

First, you'll need to download the MySQL Connector/J, which is the JDBC driver for

MySQL. You can download it from the below link

https://drive.google.com/file/d/1QFhB7Kvcat7a4LzDRe6GcmZva1yAxKz-

/view?usp=drive link

Copy the downloaded MySQL Connector/J JAR file to the Hive library directory. By default, the Hive library directory is usually located at/path/to/apache-hive-3.1.2/lib/on Ubuntu. Use the following command to copy the JAR file:

\$sudo cp /path/to/mysql-connector-java-8.0.15.jar /path/to/apache-hive-3.1.2/lib/

Replace /path/to/ with the actual path to the JAR file.

#### **Step 6:Initialize the Hive Metastore Schema:**

Run the following command to initialize the Hive metastore schema:

\$\$HIVE HOME/bin/schematool -initSchema -dbTypemysql **Step** 

### 7: Start hive:

You can test Hive by running the Hive shell: Copy code hive You should be able to run Hive queries, and metadata will be stored in your MySQL database.

\$hive

```
sbores@fedora:-/hive/conf$ par hive-site.xml
SLF43: Class path contains multiple SLF44 bindings.
SLF43: Found binding in [jar:ffle:/home/osboxes/hive/Lib/Log4]-slf4j-impl-2.10.0.jar!/org/slf4j/impl/Staticlogger@inder.class]
SLF43: Found binding in [jar:ffle:/home/osboxes/hadoop/share/hadoop/common/Lib/slf4j-reload4j-1.7.36.jar!/org/slf4j/impl/Staticlogger@inder.class]
SLF43: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF43: Actual binding is of type [org.apache.logging.slf4j.log4]coggerFactory]
Metastore connection URL: jddo::mysql://localhost/metastore/createDatabaseIfNotExist=true&serverTimezone=UTC&useSSL-false&allowPublicKey@etrieval=true
Metastore Connection User: root
Starting metastore schema initialization to 3.1.0
Initialization script hive-schema-3.1.0.mysql.sql
```

# **Result:**

Thus, the Apache Hive installation is completed successfully.