#### Step 1: Installing Hive

The following steps are required for installing Hive on your system. Let us assume the Hive archive is downloaded onto the /Downloads directory.

#### **Extracting and verifying Hive Archive**

The following command is used to verify the download and extract the hive archive:

\$ tar zxvf apache-hive-0.14.0-bin.tar.gz \$ ls

On successful download, you get to see the following response:

apache-hive-0.14.0-bin apache-hive-0.14.0-bin.tar.gz

## Copying files to /usr/local/hive directory

We need to copy the files from the super user "su -". The following commands are used to copy the files from the extracted directory to the /usr/local/hive" directory.

\$ su passwd:

# cd /home/user/Download

# mv apache-hive-0.14.0-bin /usr/local/hive
# exit

#### **Setting up environment for Hive**

You can set up the Hive environment by appending the following lines to ~/.bashrc file:

```
export HIVE_HOME=/usr/local/hive export PATH=$PATH:$HIVE HOME/bin
```

The following command is used to execute ~/.bashrc file.

\$ source ~/.bashrc

## Step 2 Installing Mysql

Installation of mysql-server

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Checking the mysql-server and its process

**Using sudo apt-get install mysql-server** command, we can download mysql server Install MySQL as shown in the screenshot

Installing MySQL <u>Java</u> Connector. This is for java dependencies and connection purpose **sudo apt-get install libmysql-java** 

Creating soft link for connector in Hive lib directory. This is for soft link between Java and MySql.

ln -s /usr/share/java/mysql-connector-java.jar \$HIVE\_HOME/lib/mysql-connector-java.jar

Configuring MySql storage in Hive

- Type MySql –u root –p followed by password
- Here –u represents root username, p denotes password
- After entering the above command, the user has to enter valid password and then click enter
- Then it will enter into MySql shell mode

Creating username and password for MySql, granting privileges.

```
mysql> CREATE USER 'hiveuser'@'%' IDENTIFIED BY 'hivepassword';
mysql> GRANT all on *.* to 'hiveuser'@localhost identified by 'hivepassword';
mysql> flush privileges;
```

#### Configuring Hive

To configure Hive with Hadoop, you need to edit the **hive-env.sh** file, which is placed in the **\$HIVE\_HOME/conf** directory. The following commands redirect to Hive **config** folder and copy the template file:

\$ cd \$HIVE\_HOME/conf \$ cp hive-env.sh.template hive-env.sh

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Edit the **hive-env.sh** file by appending the following line:

export HADOOP\_HOME=/usr/local/hadoop

## Step 3:configure hive.xml present in conf directory of Hive folder

```
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.jdbc.Driver</value>
property>
<name>javax.jdo.option.ConnectionUserName</name>
<value><<username>></value>
property>
<name>javax.jdo.option.ConnectionPassword</name>
<value><<password>></value>
property>
<name>hive.metastore.local</name>
<value>true</value>
</configuration>
```

Step 4: Configuring Metastore of Hive using Mysql

Download mysql-connector-java-3.1.14.tar.gz,extract it and then copy the mysql-connector-java-3.1.14.bin.jar to the lib directory in HIVE\_HOME

Add the following properties to the core-site.xml in HADOOP HOME/etc/hadoop

property>

Now initialize the hive metastore as mysql by the following command

schematool -initSchema -dbType mysql

If it is successful then you are good to go!

## Step 5: Verifying Hive Installation

Before running Hive, you need to create the /tmp folder and a separate Hive folder in HDFS. Here, we use the /user/hive/warehouse folder. You need to set write permission for these newly created folders as shown below:

chmod g+w

Now set them in HDFS before verifying Hive. Use the following commands:

```
$ $HADOOP_HOME/bin/hadoop fs -mkdir /tmp
```

\$\$HADOOP HOME/bin/hadoop fs -mkdir /user/hive/warehouse

\$ \$HADOOP HOME/bin/hadoop fs -chmod g+w /tmp

\$\$HADOOP\_HOME/bin/hadoop fs -chmod g+w /user/hive/warehouse

The following commands are used to verify Hive installation:

```
$ cd $HIVE_HOME
$ bin/hive
```

On successful installation of Hive, you get to see the following response:

 $Logging\ initialized\ using\ configuration\ in\ jar: file:/home/hadoop/hive-0.9.0/lib/hive-common-0.9.0. jar!/hive-log4j.properties$ 

Hive history file=/tmp/hadoop/hive job log hadoop 201312121621 1494929084.txt

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hive>
The following sample command is executed to display all the tables:
hive> show tables; OK Time taken: 2.798 seconds hive>