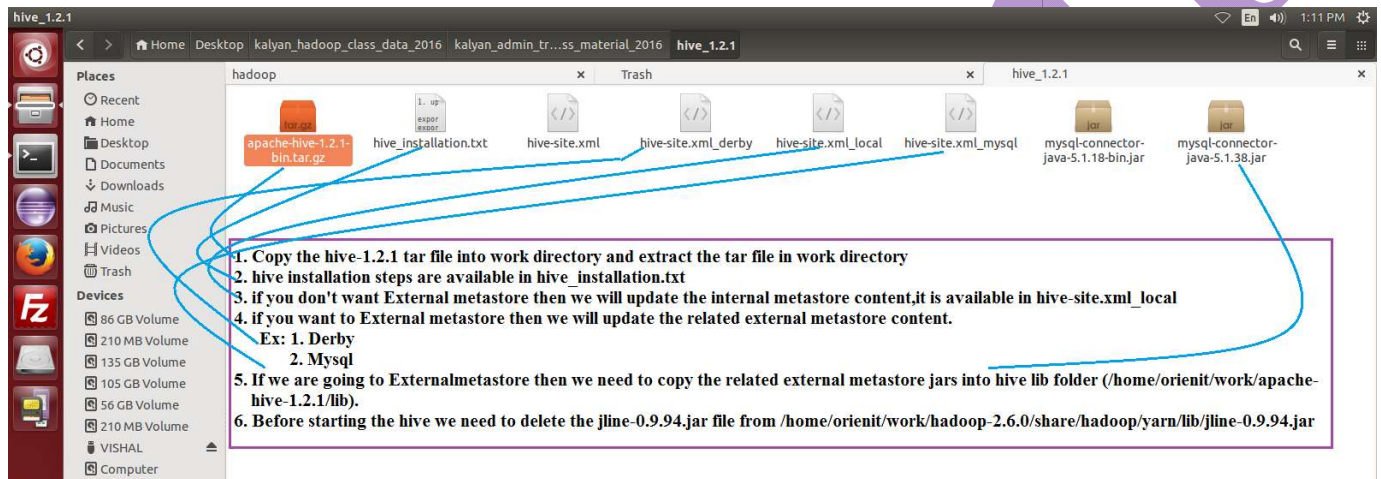
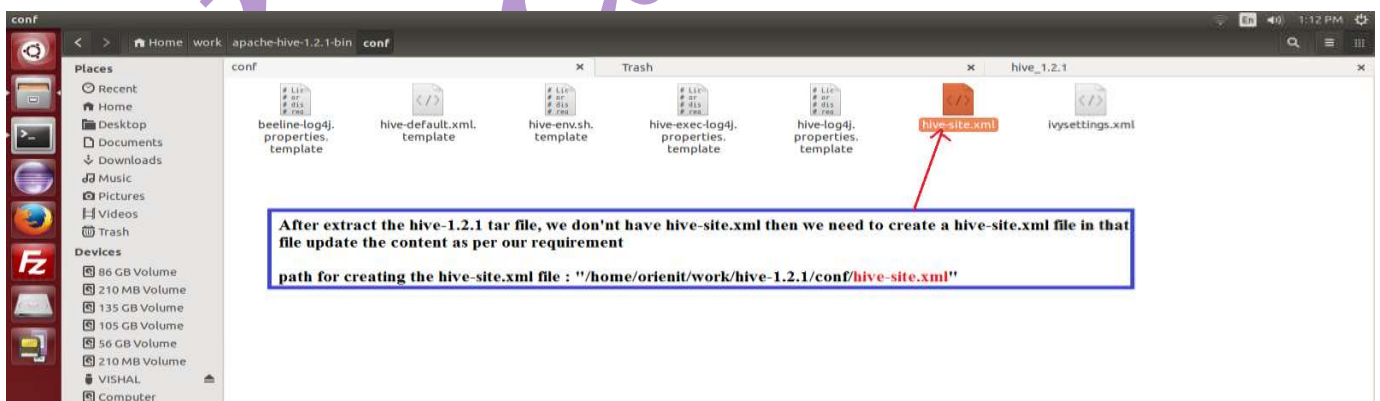


HIVE-1.2.1 Version Installation Steps

1. Download the hive-1.2.1 tar file from [Apache Mirrors](#)
2. Hive need always metastore db
3. Hive supports 2 types of Installations
 - 1) Local /Internal metastore (Embedded Derby)
 - 2) Remote /External metastore (Derby / MySql / Oracle / Mssql)
4. Download the required files for external metastore db.
5. Follow the inside screen shot steps.



6. Create the **hive-site.xml** file in **\$HIVE_HOME/conf** folder for to configure the hive. Follow the inside screen shot steps.



7. If we want install internal metastore then we will write the below screen shot content in **hive-site.xml**.
8. What is importance of two properties, please verify in screen shot.

```
1 <?xml version="1.0"?>
2 <?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
3 <configuration>
4 <property>
5   <name>hive.metastore.warehouse.dir</name>
6   <value>/home/orienit/work/warehouse</value>
7 </property>
8 <property>
9   <name>hive.metastore.local</name>
10  <value>true</value>
11 </property>
12 <property>
13   <name>javax.jdo.option.ConnectionURL</name>
14   <value>jdbc:derby::databaseName=/home/hadoop/work/metastore_db;create=true</value>
15 </property>
16 </configuration>
```

If you don't install the external metastore, hive will take care of internal metastore.
Internal metastore : Embedded database.
In this case the second property we make as true.

Internal metastore is also required as ConnectionURL, here we need write the connectionurl for internal metastore

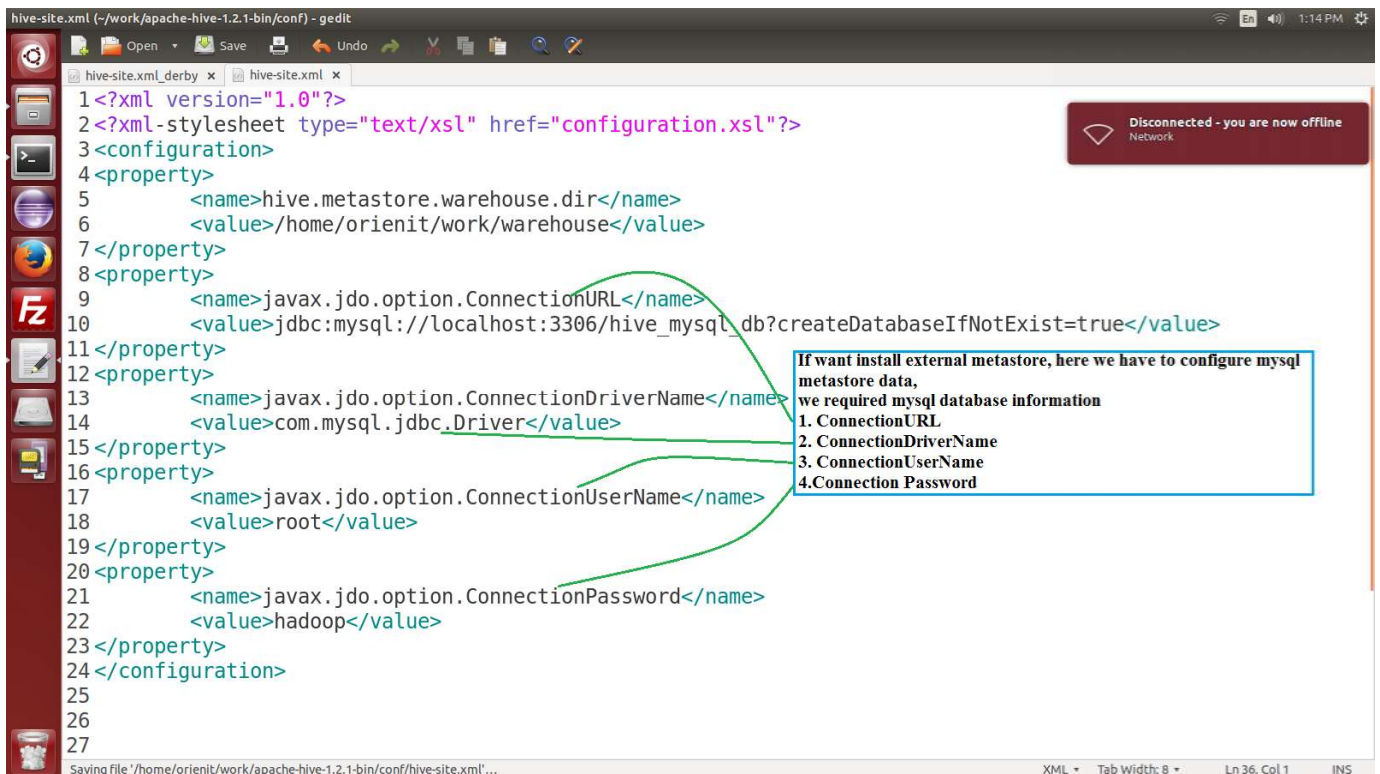
9. If we want to install external metastore then we will write the below external metastore content in **hive-site.xml**.
10. In this case i am using **Derby** as external metastore, then I have updated derby information in **hive-site.xml**
11. What is importance of three properties, please verify in screen shot.

```
1 <?xml version="1.0"?>
2 <?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
3 <configuration>
4 <property>
5   <name>hive.metastore.warehouse.dir</name>
6   <value>/home/orienit/work/warehouse</value>
7 </property>
8 <property>
9   <name>javax.jdo.option.ConnectionURL</name>
10  <value>jdbc:derby://localhost:1527/spark_derby;create=true</value>
11 </property>
12 <property>
13   <name>javax.jdo.option.ConnectionDriverName</name>
14   <value>org.apache.derby.jdbc.ClientDriver</value>
15 </property>
16 </configuration>
```

These property for to store the data, if we don't have to mention path at the time of creating the tables / database then it will stored in by default path that is /home/orienit/work/warehouse

-->When we install the external metastore then we need to update of related content to external metastore data in hive-site.xml file.
--> when we want to connect the any database we required database information
1.ConnectionURL of Database
2.ConnectionDriverName of Database
3.UserName of Database
4.Password of Database

12. If we want use **MySQL** database as external metastore then we will write the mysql database content in **hive-site.xml** file
13. Follow the below screen shot information.

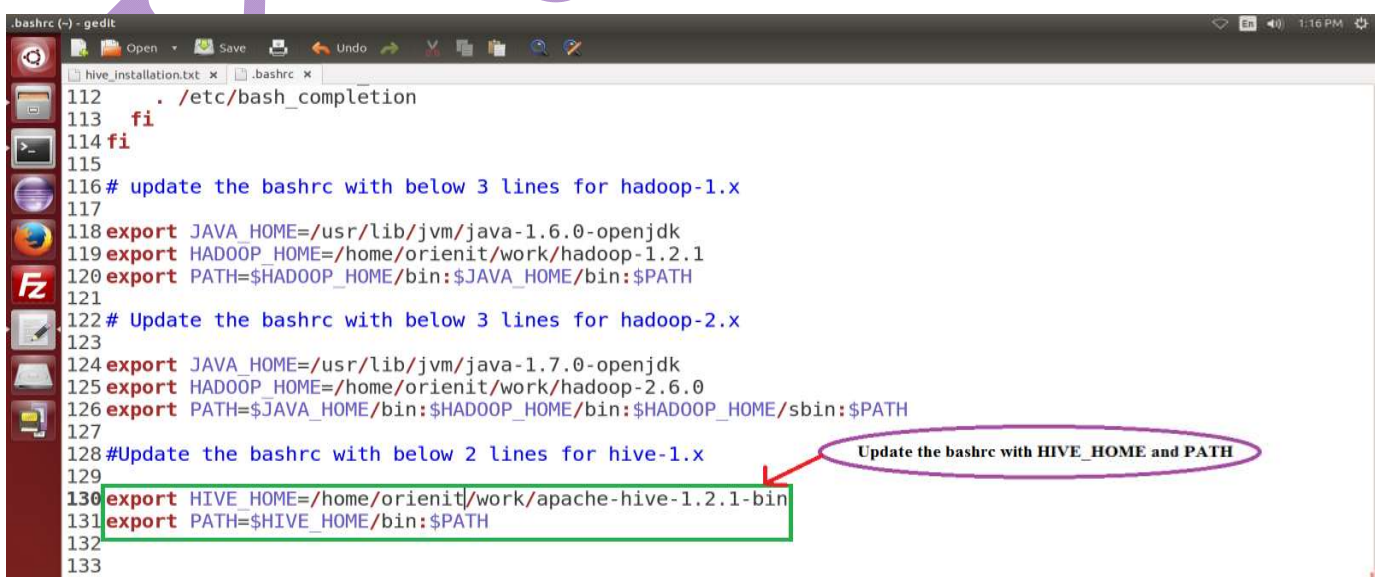


```
1<?xml version="1.0"?>
2<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
3<configuration>
4<property>
5  <name>hive.metastore.warehouse.dir</name>
6  <value>/home/orienit/work/warehouse</value>
7</property>
8<property>
9  <name>javax.jdo.option.ConnectionURL</name>
10 <value>jdbc:mysql://localhost:3306/hive_mysql_db?createDatabaseIfNotExist=true</value>
11</property>
12<property>
13  <name>javax.jdo.option.ConnectionDriverName</name>
14  <value>com.mysql.jdbc.Driver</value>
15</property>
16<property>
17  <name>javax.jdo.option.ConnectionUserName</name>
18  <value>root</value>
19</property>
20<property>
21  <name>javax.jdo.option.ConnectionPassword</name>
22  <value>hadoop</value>
23</property>
24</configuration>
25
26
27
```

If want install external metastore, here we have to configure mysql metastore data, we required mysql database information

1. ConnectionURL
2. ConnectionDriverName
3. ConnectionUserName
4. Connection Password

14. Open the **~/.bashrc** file and update the hive information, see below screen shot information.



```
112 . /etc/bash_completion
113 fi
114 fi
115
116 # update the bashrc with below 3 lines for hadoop-1.x
117
118 export JAVA_HOME=/usr/lib/jvm/java-1.6.0-openjdk
119 export HADOOP_HOME=/home/orienit/work/hadoop-1.2.1
120 export PATH=$HADOOP_HOME/bin:$JAVA_HOME/bin:$PATH
121
122 # Update the bashrc with below 3 lines for hadoop-2.x
123
124 export JAVA_HOME=/usr/lib/jvm/java-1.7.0-openjdk
125 export HADOOP_HOME=/home/orienit/work/hadoop-2.6.0
126 export PATH=$JAVA_HOME/bin:$HADOOP_HOME/bin:$HADOOP_HOME/sbin:$PATH
127
128 #Update the bashrc with below 2 lines for hive-1.x
129
130 export HIVE_HOME=/home/orienit/work/apache-hive-1.2.1-bin
131 export PATH=$HIVE_HOME/bin:$PATH
132
133
```

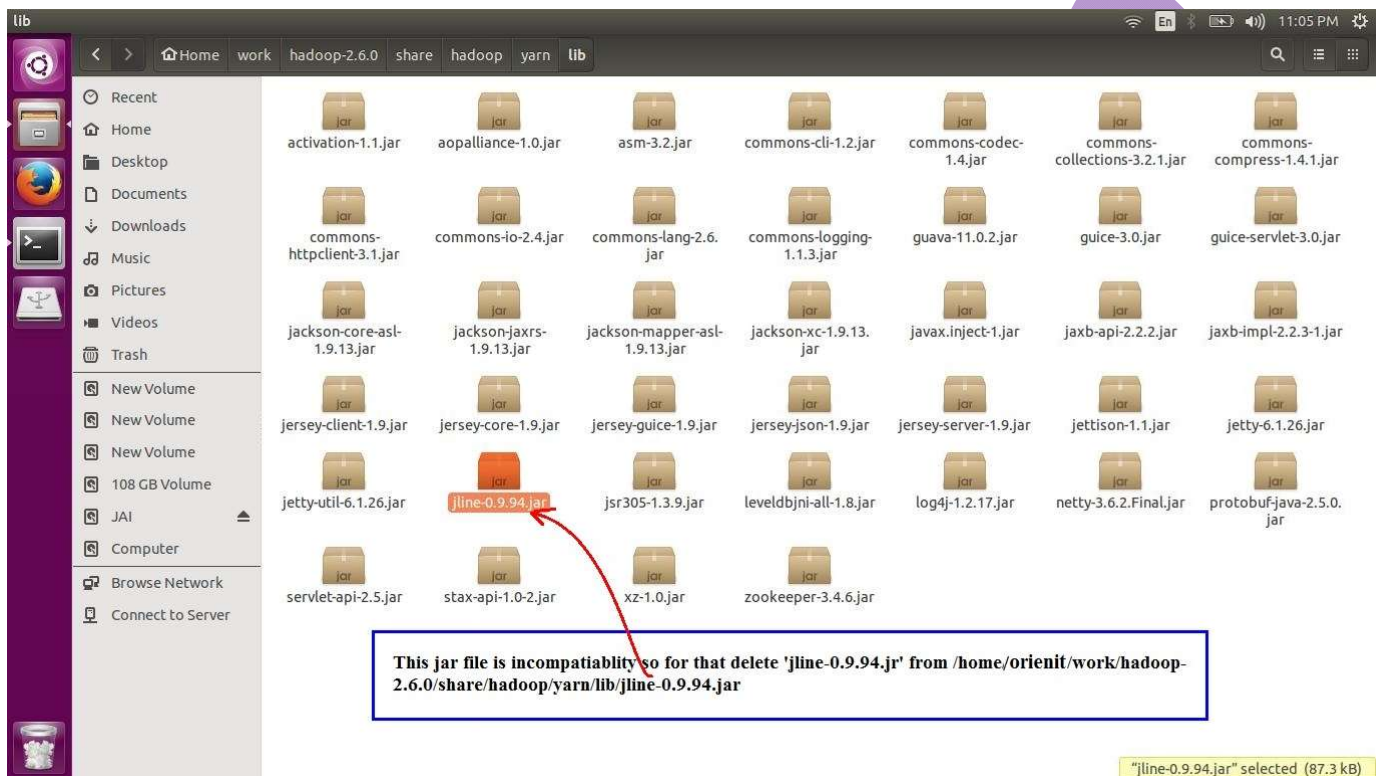
Update the bashrc with HIVE_HOME and PATH

15. Hive configuration is correct or not. Please verify through below command.

```
orientit@Kalyan:~$ echo $HIVE_HOME
/home/orientit/work/apache-hive-1.2.1-bin
orientit@Kalyan:~$
```

This command for to display the path, if your configuration is correct then path will be displayed otherwise it won't displayed.

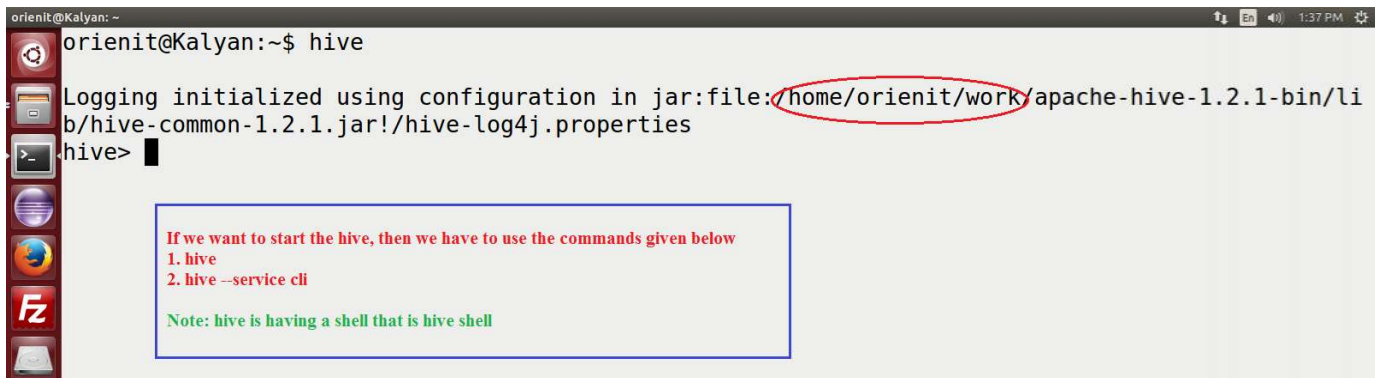
16. Delete the **jline-0.9.94.jar** from below specified path, because incompatibility issue



17. Copy the **external metastore db** related **client connector jar** file into **/home/orientit/work/apache-hive-1.2.1-bin/lib** folder



18. If we want to start the hive, you can execute the below command (hive).



```
orienit@Kalyan: ~$ hive
Logging initialized using configuration in jar:file:/home/orienit/work/apache-hive-1.2.1-bin/lib/hive-common-1.2.1.jar!/hive-log4j.properties
hive>
```

If we want to start the hive, then we have to use the commands given below

1. hive
2. hive --service cli

Note: hive is having a shell that is hive shell

19. Verify the hive functionality working or not using below command (show databases;)
20. If we want to stop the hive, you can execute the below command (exit;)