Hive installation on ubuntu

1. Install MySql

   sudo apt-get update

   sudo apt-get install mysql-server

   sudo apt-get install libmysql-java

2. Download Hive and extract it
3. Modify and apply .bashrc file to set HIVE_HOME and update PATH
4. Create link to driver JAR

ln -s /usr/share/java/mysql-connector-java.jar $HIVE_HOME/lib/mysql-connector-java.jar

5. Set metastore schema on mysql

   mysql -u root -p

   CREATE USER 'hive'@'%' IDENTIFIED BY 'hive';

   CREATE DATABASE metastore;

   Use metastore;

   GRANT all on metastore.* to 'hive'@localhost identified by 'hive';

   source $HIVE_HOME/scripts/metastore/upgrade/mysql/hive-schema-X.X.X.mysql.sql

6. Modify hive-site.xml as following:

   ```
   <configuration>
   <property>
   <name>javax.jdo.option.ConnectionURL</name>
   <value>jdbc:mysql://localhost/metastore?createDatabaseIfNotExist=true</value>
   <description>MySql connection for metastore</description>
   </property>

   <property>
   <name>hive.metastore.warehouse.dir</name>
   <value>/user/hive/warehouse</value>
   <description>location of default database for the warehouse</description>
   </property>

   <property>
   <name>javax.jdo.option.ConnectionDriverName</name>
   <value>com.mysql.jdbc.Driver</value>
   <description>Driver class name for a JDBC metastore</description>
   </property>

   <property>
   <name>javax.jdo.option.ConnectionUserName</name>
   <value>hive</value>
   ```

```
        <description>Hive metastore user name for connecting to mysql</description>
        </property>

        <property>
        <name>javax.jdo.option.ConnectionPassword</name>
        <value>hive</value>
        <description>Hive metastore password for connecting to mysql</description>
        </property>

        <property>
        <name>javax.jdo.PersistenceManagerFactoryClass</name>
        <value>org.datanucleus.api.jdo.JDOPersistenceManagerFactory</value>
        <description>class implementing the jdo persistence</description>
        </property>

        </configuration>
```

7. Set HDFS directory
   ```
   hdfs dfs -mkdir -p /user/hive/warehouse
   hdfs dfs -mkdir /tmp
   hdfs dfs -chmod g+w /user/hive/warehouse
   hdfs dfs -chmod g+w /tmp
   ```

Reference:

https://www.digitalocean.com/community/tutorials/how-to-install-mysql-on-ubuntu-16-04