一. 安装

- 1. hive安装: brew install hive 2. mysql安装: brew install mysql
- 3. 启动mysql: bash mysql.server start

二. 元数据库配置

Hive默认用derby作为元数据库。这里我们用mysql来存储元数据,下面作一些初始化配置

- 1. 登录mysql: mysql-u root
- 2. 创建数据库: create database metastore;
- 3. 创建新的用户: create user 'hive'@'localhost' identified by '123456';
- 4. 修改用户权限: grant select,insert,update,delete,alter,create,index,references on metastore.* to 'hive'@'localhost';
- 5. 刷新权限: flush privileges;

三. 配置Hive

- 1. 进入Hive的安装目录,创建hive-site.xml文件
 - 1). cd /usr/local/Cellar/hive/2.1.1/libexec/conf
 - 2). cp hive-default.xml.template hive-site.xml
- 2. 修改hive-site.xml文件,找到以下对应的property并修改其值
 - 1). 修改jdbc连接配置

```
property>
 <name>javax.jdo.option.ConnectionURL</name>
 <value>jdbc:mysql://localhost/metastore?useSSL=true</value>
 <description>
    JDBC connect string for a JDBC metastore.
   To use SSL to encrypt/authenticate the connection, provide database-specific SSL flag in the connection URL.
   For example, jdbc:postgresql://myhost/db?ssl=true for postgres database.
 </description>
</property>
```

2). 修改idbc driver名称

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

3). 修改mysql连接user

```
<property>
  <name>javax.jdo.option.ConnectionUserName
  <value>hive</value>
  <description>Username to use against metastore database</description>
 /propertv>
  4). 修改mysql连接password
cpropertv>
  <name>javax.jdo.option.Connection@assword
  <value>123456</value>
```

<description>password to use against metastore database</description>

</property>

```
5). 修改本地配置目录
<name>hive.exec.scratchdir</name>
  <value>/Users/zj-db0972/hive</value>
  <description>HDFS root scratch dir for Hive jobs which gets created with write all (733) permission. For each
sername> is created, with ${hive.scratch.dir.permission}.</description>
</property>
<name>hive.exec.local.scratchdir
  <value>/Users/zj-db0972/hive</value>
  <description>Local scratch space for Hive jobs</description>
</property>
<name>hive.downloaded.resources.dir
  <value>/Users/zj-db0972/hive</value>
  <description>Temporary local directory for added resources in the remote file system.</description>
</property>
```

6). 配置log输出路径

```
<name>hive.querylog.location
 <value>/Users/zj-db0972/hive</value>
 <description>Location of Hive run time structured log file</description>
</property>
```

```
<name>hive.server2.logging.operation.log.location
 <value>/Users/zj-db0972/hive</value>
 <description>Top level directory where operation logs are stored if logging functionality is enabled</description>
</property>
```

7). 配置warehouse

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

四. 拷贝mysql-connector到hive

给Hive的lib目录下拷贝一个mysql-connector

- 1). curl -L 'http://www.mysql.com/get/Downloads/Connector-J/mysql-connector-java-5.1.42.tar.gz/from/http://mysql.he.net/'; | tar xz
- 2). cp mysql-connector-java-5.1.42/mysql-connector-java-5.1.42-bin.jar /usr/local/Cellar/hive/2.1.1/libexec/lib/

五. 初始化元数据库

- 1. 初始化metastore库: schematool -initSchema -dbType mysql
- 2. 登录mysql: mysql-u hive -p123456
- 3. 使用metastore数据库: use metastore
- 4. 查看表: show tables

六. HDFS创建目录

- 1. HDFS上建立/tmp和/usr/hive/warehouse目录,并赋予组用户写权限,配置Hive默认的数据文件存放目录
 - a. hadoop dfs -mkdir hdfs://localhost:9000/tmp
 - b. hadoop dfs -mkdir -p hdfs://localhost:9000/user/hive/warehouse
 - c. hadoop dfs -chmod g+w hdfs://localhost:9000/tmp
 - d. hadoop dfs -chmod g+w hdfs://localhost:9000/user/hive/warehouse

七. 启动服务

- 1. 启动metastore服务
 - hive —service metastore &
- 2. 启动hiverserver2服务

hive --service hiveserver2