# MySQL安装

● 卸载centos7自带的mariadb

```
1 #查看是否有进程2 rpm -qa | grep mariadb3 #如果有卸载4 rpm -e 查看到的进程名字 --nodeps5 #再次查看6 rpm -qa | grep mariadb
```

#### ● 安装mysql

```
1 #下载mysql
2 wget https://dev.mysql.com/get/Downloads/MySQL-8.0/mysql-8.0.27-1.el8.x86_64.rpm-
  bundle.tar
 #创建文件夹
  mkdir /usr/local/mysql
  #进入创建的文件夹 把安装包解压
  cd /usr/local/mysql
  tar -zxvf 压缩包路径 解压路径
  #然后安装
   rpm -ivh mysql-community-common-8.0.27-1.el8.x86 64.rpm --nodeps --force
   rpm -ivh mysql-community-libs-8.0.27-1.el8.x86 64.rpm --nodeps --force
   rpm -ivh mysql-community-client-8.0.27-1.el8.x86 64.rpm --nodeps --force
   rpm -ivh mysql-community-server-8.0.27-1.el8.x86_64.rpm --nodeps --force
   #初始化MySQL
   mysqld --initialize;
   #更改所属组
   chown mysql:mysql /var/lib/mysql -R;
   #启动服务
   systemctl start mysqld.service;
   #设置自动启动
   systemctl enable mysqld;
   #会临时生成一个密码,如果没看到则可以通过
   cat /var/log/mysqld.log | grep password
   #登录MySQL
   mysql -uroot -p
   #修改密码,此时密码是root可以改
   ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY '123456';
   #退出然后重新登录
   #进行远程访问的授权
```

```
create user 'root'@'%' identified with mysql_native_password by 'root';
grant all privileges on *.* to 'root'@'%' with grant option;
flush privileges;

#修改加密规则, MySql8.0 版本 和 5.0 的加密规则不一样, 而现在的可视化工具只支持旧的加密方式。
ALTER USER 'root'@'localhost' IDENTIFIED BY 'root' PASSWORD EXPIRE NEVER;
flush privileges;
#安装完成

#修改密码5.0版本

SET PASSWORD FOR 'root'@'%' = PASSWORD('123456');
```

## Hive安装

- 上传安装包解压
- 解决Hive与Hadoop之间huava版本差异

```
cd /export/server/apache-hive-3.1.2-bin/
rm -rf lib/guava-19.0.jar
cp /export/server/hadoop-3.3.0/share/hadoop/common/lib/guava-27.0-jre.jar
/export/server/apache-hive-3.1.2-bin/lib/
```

### 修改配置文件

o hive-env.sh

```
cd /export/server/apache-hive-3.1.2-bin/conf
mv hive-env.sh.template hive-env.sh

vim hive-env.sh

export HADOOP_HOME=/export/server/hadoop-3.3.0

export HIVE_CONF_DIR=/export/server/apache-hive-3.1.2-bin/conf
export HIVE_AUX_JARS_PATH=/export/server/apache-hive-3.1.2-bin/lib
```

hive-site.xml

```
vim hive-site.xml

configuration>

<!-- 存储元数据mysql相关配置 -->

vproperty>

name>javax.jdo.option.ConnectionURL</name>

value>jdbc:mysql://node1:3306/hive3?
createDatabaseIfNotExist=true&amp;useSSL=false</value>
```

```
</property>
   cproperty>
       <name>javax.jdo.option.ConnectionDriverName</name>
       <value>com.mysql.jdbc.Driver</value>
   </property>
   cproperty>
       <name>javax.jdo.option.ConnectionUserName</name>
       <value>root</value>
   </property>
   cproperty>
       <name>javax.jdo.option.ConnectionPassword</name>
       <value>hadoop</value>
   </property>
   <!-- H2S运行绑定host -->
   cproperty>
       <name>hive.server2.thrift.bind.host</name>
       <value>node1</value>
   </property>
   <!-- 远程模式部署metastore metastore地址 -->
   cproperty>
       <name>hive.metastore.uris</name>
       <value>thrift://node1:9083</value>
   </property>
34
   <!-- 关闭元数据存储授权 -->
   cproperty>
       <name>hive.metastore.event.db.notification.api.auth</name>
       <value>false</value>
   </property>
   </configuration>
```

- 上传mysql jbdc驱动到hive安装lib下
  - 1 根据MySQL版本驱动版本放入
- 在hdfs创建hive存储目录

```
hadoop fs -mkdir /tmp
hadoop fs -mkdir -p /user/hive/warehouse
hadoop fs -chmod g+w /tmp
hadoop fs -chmod g+w /user/hive/warehouse
```

## • 初始化元数据

```
cd /export/server/apache-hive-3.1.2-bin/

bin/schematool -initSchema -dbType mysql -verbos

#手动创建74张表
```

### 启动hive

o 1.启动metastore服务

```
1 #三种方式,一般用第三种
2 #前台启动 关闭ctrl+c
3 /export/server/apache-hive-3.1.2-bin/bin/hive --service metastore
4
5 #前台启动开启debug日志
6 /export/server/apache-hive-3.1.2-bin/bin/hive --service metastore --hiveconf hive.root.logger=DEBUG,console
7
8 #后台启动 进程挂起 关闭使用jps+ kill -9
9 nohup /export/server/apache-hive-3.1.2-bin/bin/hive --service metastore &
```

o 2.启动hiveserver2服务

```
nohup /export/server/apache-hive-3.1.2-bin/bin/hive --service hiveserver2 &

#注意 启动hiveserver2需要一定的时间 不要启动之后立即beeline连接 可能连接不上
```

- 3.beeline客户端连接
  - o 拷贝node1安装包到beeline客户端机器上
  - 1 #如果在本机安装的则忽略
  - 2 scp -r /export/server/apache-hive-3.1.2-bin/ node3:/export/server/

## Hive的客户端

● Hive的第一代客户端

- ==bin/hive==
- o 直接访问metastore服务
- 0 配置

#### o 弊端:

- 第一代客户端属于shell脚本客户端性能友好安全方面存在不足 Hive已经不推荐使用官方建议使用第二代客户端beeline
- Hive的第二代客户端
  - bin/beeline
  - o 无法访问metastore服务,只能够访问==Hiveserver2服务==。
  - 使用

```
# 拷贝node1上 hive安装包到beeline客户端机器上(node3)

scp -r /export/server/apache-hive-3.1.2-bin/ node3:/export/server/

#1、在安装hive的服务器上 首先启动metastore服务 再启动hiveserver2服务

nohup /export/server/apache-hive-3.1.2-bin/bin/hive --service metastore & nohup /export/server/apache-hive-3.1.2-bin/bin/hive --service hiveserver2 & #2、在任意机器(如node3)上使用beeline客户端访问

[root@node3 ~]# /export/server/apache-hive-3.1.2-bin/bin/beeline beeline>! connect jdbc:hive2://node1:10000 #jdbc访问HS2服务

Connecting to jdbc:hive2://node1:10000: root #用户名 要求具备HDFS读写权限

Enter password for jdbc:hive2://node1:10000: #密码可以没有
```

#### ● 错误

```
1 Error: Could not open client transport with JDBC Uri: jdbc:hive2://node1:10000:
2 Failed to open new session: java.lang.RuntimeException:
3 org.apache.hadoop.ipc.RemoteException(org.apache.hadoop.security.authorize.Authorization Exception):
4 User: root is not allowed to impersonate root (state=08S01,code=0)
```

#### 0 修改

```
1在hadoop的配置文件core-site.xml中添加如下属性:2<property>3<name>hadoop.proxyuser.root.hosts</name>4<value>*</value>5<property>6<property>7<name>hadoop.proxyuser.root.groups</name>8<value>*</value>9</property>
```

#### 1

- 错误解决:Hive3执行insert插入操作 statstask异常
  - o 现象
- 1 在执行insert + values操作的时候 虽然最终执行成功,结果正确。但是在执行日志中会出现如下的错误信息。

```
Moving data to directory hdfs://node1:8020/user/hive/warehouse/t_1/.hive-staging_hive_2020-11-09_14-09-06_874204851885-1/-ext-10000
Loading data to table default.t 1
FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.StatsTask
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 5.54 sec HDFS Read: 15118 HDFS Write: 237 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 540 msec
hive> select count(*) from t_1;
```

。 开启hiveserver2执行日志。 查看详细信息

```
1 2020-11-09 00:37:48,963 WARN [5ce14c58-6b36-476a-bab8-89cba7dd1706 main]
2 metastore.RetryingMetaStoreClient: MetaStoreClient lost connection. Attempting to reconnect (1 of 1)
3 after 1s. setPartitionColumnStatistics
4
5 ERROR [5ce14c58-6b36-476a-bab8-89cba7dd1706 main] exec.StatsTask: Failed to run stats task
```

```
INFO [5cel4c58-6b36-4/6a-bab8-89cba/ddl706 main] metastore.HiveMetaStoreClient: Opened a connection to metastor is INFO [5cel4c58-6b36-476a-bab8-89cba7ddl706 main] metastore.HiveMetaStoreClient: Connected to metastore. Observed in the connected is metastore. Observed in the connected in the connected is metastore. Observed in the connected in the connected
```

- 是 ==此错误并不影响最终的插入语句执行成功==。
- 分析原因和解决

o statstask是一个hive中用于统计插入等操作的状态任务 其返回结果如下

- o 此信息类似于计数器 用于告知用户插入数据的相关信息 但是不影响程序的正常执行。
- Hive新版本中 这是一个issues 临时解决方式如下
- <a href="https://community.cloudera.com/t5/Support-Questions/Hive-Metastore-Connection-Failure-then-Retry/td-p/151661">https://community.cloudera.com/t5/Support-Questions/Hive-Metastore-Connection-Failure-then-Retry/td-p/151661</a>

Re: Hive Metastore Connection Failure then Retry 

ndembla Cloudera Employee
Created 09-16-2016 01:08 PM

@Kirk Haslbeck Currently there is open issue with aggregating date column statistics for partitioned tables.
https://issues.apache.org/jira/browse/HIVE-14773

When hive client queries the metastore db for date column statistics, it runs into a NPE. This may show up as increased lag time in Tez because it takes longer for DAG execution to kick in.

To workaround this, you can delete the column statistics for the data column from PART\_COL\_STATS in the metastore db.

View solution in original post

Reply

- 。 ==在mysql metastore中删除 PART COL STATS这张表即可==。
- Hive 连接 schemaTool -initSchema 报 mysql 连接 1045 错误

```
1 # 更新一下所有域访问的 root对应的密码
2 use mysql;
3 UPDATE user SET Password = PASSWORD('123456') where USER='root';
4 FLUSH PRIVILEGES;
5 exit;
```

hive连接不上查看日志可能是安全模式,关闭即可

1 hdfs dfsadmin -safemode forceExit

hive连接不上查看日志提示server.HiveServer2: Error starting HiveServer2 on attempt 23, will retry in 60000ms

查看日志其中显示

2022-02-09T09:27:03,331 INFO [main] server. Hive Server 2: HS2 interactive HA not enabled. Starting tez sessions..

2022-02-09T09:27:03,331 INFO [main] server.HiveServer2: Starting/Reconnecting tez sessions..

显示HS2 interactive HA没有开启,就导致了开启tez session。那么我们进行如下配置开启HS2 interactive HA:

在hive中的修改hive-site.xml,将下面value改为true