Hive安装部署



















MySQL安装



离线安装mysql

执行命令:

```
rpm -ivh --nodeps mysql-5.1.73-5.el6_6.x86_64.rpm
rpm -ivh --nodeps mysql-server-5.1.73-5.el6_6.x86_64.rpm
rpm -ivh --nodeps mysql-devel-5.1.73-5.el6_6.x86_64.rpm
```

在线安装mysql

执行命令:

yum -y install mysql mysql-server mysql-devel

MySQL安装



```
开机启动: chkconfig mysqld on
启动mysqld服务: service mysqld start
登陆mysql:mysql -u root
初始化密码:
   use mysql;
   update user set password=password('root') where user='root';
   exit;
   service mysqld restart
开启远程连接: grant all PRIVILEGES on *.* to root@'%' identified by 'root';
   service mysqld restart
登录mysql: mysql -u root -p
```

MySQL安装



> 创建数据库

```
mysql -u root -p112233
CREATE DATABASE hive;
```

> 创建用户并授权

创建linux用户

useradd hive passwd hive

在 mysql 界面输入以下命令:

```
CREATE USER 'hive' IDENTIFIED BY 'hive';
grant all privileges on *.* to 'hive' identified by 'hive';
flush privileges;
```



先决条件

已经安装好hadoop(这里我们使用的是2.7.3)

下载Hive安装包

当前Hive可到apache官网下载,选择的是hive-1.2.1。运行:

wget http://www-us.apache.org/dist/hive/hive-1.2.1/apache-hive-1.2.1-bin.tar.gz

然后将其解压到Hadoop所在的目录: /usr/local/下。

解压: tar -vxf apache-hive-1.2.1-bin.tar.gz

重命名: mv apache-hive-1.2.1-bin hive

上传mysql驱动jar包至/usr/local/hive/lib目录下



> 配置环境变量

```
export HADOOP_HOME=/usr/local/hadoop
export HADOOP_CONF_HOME=$HADOOP_HOME/etc/hadoop/
export HIVE_HOME=/usr/local/hive
export HIVE_CONF_DIR=/usr/local/hive/conf
export PATH=$PATH:$HIVE_HOME/bin:$HADOOP_HOME/bin
source /etc/profile 使刚刚的配置生效
```

▶ 配置文件重命名

在运行 Hive 之前需要使用以下命令修改配置文件:

```
[root@master conf]# cd /usr/local/hive/conf/
[root@master conf]# cp hive-env.sh.template hive-env.sh
[root@master conf]# cp hive-default.xml.template hive-site.xml
[root@master conf]# cp hive-log4j.properties.template hive-log4j.properties
[root@master conf]# cp hive-exec-log4j.properties.template hive-exec-log4j.properties
```

修改 hive-env. sh

```
export HADOOP_HOME=/usr/local/hadoop
export HIVE_CONF_DIR=/usr/local/hive/conf
```

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> 创建临时目录

```
cd /usr/local/hive/
mkdir -p tmp/resources
```

▶ 创建hdfs目录

```
hadoop fs -mkdir -p /tmp/hive
hadoop fs -mkdir -p /user/hive/warehouse
```

新建用户组并将hdfs下的/user/hive/目录的权限、所属主与所属组分别赋权

```
groupadd hadoop
usermod -G hadoop hive
hadoop fs -chown -R hive:hadoop /user/hive/warehouse
hadoop fs -chown -R hive:hadoop /tmp/hive/
hadoop fs -chmod 755 /user/hive/warehouse
hadoop fs -chmod 777 /tmp/hive/
```



修改 hive-site.xml

```
vim hive-site.xml # 编辑配置文件
        property>
           <name>javax. jdo. option. ConnectionURL
           <value>jdbc:mysql://mysqlIP地址:3306/hive?createDatabaseIfNotExit=true</value>
         <description>JDBC connect string for a JDBC metastore</description>
        </property>
        property>
           <name>javax.jdo.option.ConnectionDriverName
           <value>com. mysql. jdbc. Driver</value>
           <description>Driver class name for a JDBC metastore</description>
        </property>
        property>
           <name>javax. jdo. option. ConnectionUserName
           <value>root</value>
           <description>Username to use against metastore database/description>
        </property>
        property>
           <name>javax. jdo. option. ConnectionPassword
           <value>112233
           <description>password to use against metastore database/description>
        </property>
```



```
property>
   <name>hive.exec.local.scratchdir
   <value>/usr/local/hive/tmp</value>
   <description>Local scratch space for Hive jobs</description>
</property>
property>
   <name>hive.downloaded.resources.dir
   <value>/usr/local/hive/tmp/resources</value>
   <description>Temporary local directory for added resources in the remote file system. </description>
</property>
property>
<name>hive.metastore.warehouse.dir
<value>/user/hive/warehouse
<description>location of default database for the warehouse/description>
</property>
property>
<name>hive.exec.scratchdir</name>
<value>/tmp/hive</value>
<description>HDFS root scratch dir for Hive jobs which gets created with write all (733) permission./description>
```





测试hive是否可用

输入hive命令 show databases;

```
Logging initialized using configuration in jar:file:/usr/loc
hive> show databases;
OK
default
Time taken: 1.173 seconds, Fetched: 1 row(s)
```

进入mysql查看hive库。 mysql -u root -proot use hive show tables; patabase char

```
Database changed
mysql> show tables;

1 Tables_in_hive

1 BUCKETING_COLS

1 CDS

1 COLUMNS_V2

1 DATABASE_PARAMS

1 DBS

2 FUNCS

3 FUNCS

4 FUNC_RU

5 GLOBAL_PRIVS

5 PARTITIONS

7 PARTITION_KEYS

8 PARTITION_KEY_VALS

9 PARTITION_FARAMS

9 PARTITION_PARAMS

9 PART_OOL_STATS

1 ROLES

1 SDS

1 SD_PARAMS

1 SEQUENCE_TABLE

1 SERDES

1 SERDE_PARAMS

1 SKEWED_COL_VALUE_LOC_MAP

1 SKEWED_STRING_LIST

1 SKEWED_STRING_LIST

1 SKEWED_STRING_LIST

1 SKEWED_VALUES

1 SORT_COLS

1 TAB_COL_STATS

1 TAB_C
```

Hive的访问方式



➤ Hive-cli

≥2.JDBC

启动hiveserver2:hive --service hiveserver2 --hiveconf hive.server2.thrift.port=10000

```
[root@hadoop conf]# beeline
Beeline version 1.2.1 by Apache Hive
beeline> !connect jdbc:hive2://hadoop:10000/default
```

4.Web接口

- ✓ HWI(hie web interface):参照: http://www.cnblogs.com/xing901022/p/5827165.html
- ✓ HUE

THANKS



