

# hadoop2.2+hbase0.96+hive0.12

# 安装整合详细高可靠文档及经验总结

本文链接: http://www.aboutyun.com/thread-7890-1-1.html

#### 问题导读:

- 1.hadoop 的安装需要安装哪些如那件?
- 2.hadoop 与 hbase 整合需要注意哪些问题?
- 3.hive 与 hbase 的通信包是哪个?



网上这个文档非常流行,但是感觉缺乏一些细节的指导,除非对 Linux 和 hadoop 有一定的 认 识 。 否 则 新 手 很 难 从 这 些 文 档 中 安 装 成 功 。 这 里 重 新 实 践 了 一 下 , hadoop2.2 ,hbase0.96,hive0.12 的安装及他们的整合,这里整理一下。

### 1.首先 hadoop2.2 的安装

hadoop2.2 完全分布式最新高可靠安装文档

http://www.aboutyun.com/thread-7684-1-1.html

这个文档里面包含了很多的知识:

包括 ssh 无密码互通, jdk 的安装,以及 shell 脚本的编写,当然还有文档的配置。相信新手可以通过这个文档安装成功。

#### 2.hbase 0.96 整合到 hadoop2.2

hbase 0.96 整合到 hadoop2.2 三个节点全分布式安装高可靠文档

#### http://www.aboutyun.com/thread-7746-1-1.html

这个的整合需要注意权限及包的整合,一些临时目录,最好都建立好,而不是让系统建立,同时建立的时候不要放到系统默认文件夹,这个可能重启就会产生问题,导致缺少 hmaster 或则其他进程。还有个问题,有的同学安装完毕之后,hmaster 或则 regionserver 起来之后接着宕机,是因为文件夹的权限问题,最好临时目录等都放到 hbase 的安装目录中。同时还需要注意 hbase 与 hadoop 版本要一致,否则会出问题。下面帖子可以参考:hadoop2.2.0+hbase0.94.18 出现问题

#### 3.hbase 0.96 与 hive0.12 整合

hbase0.96 与 hive0.12 整合高可靠文档及问题总结 http://www.aboutyun.com/thread-7881-1-1.html

这个的整合遇到不少问题,与其 hadoop,hbase 不一样的地方是它有一个客户端和服务器端,这样导致很多新手问这个问题,到底是否需要每台电脑都需要安装 mysql。这个是不需要的,mysql 只需要安装在服务器端就可以了。这两个整合涉及到了两个包,还是比较重要的,包括:

mysql 的连接包 mysql-connector-java-5.1.10-bin.jar,

还有就是 hbase 与 hive 的通信包

hive-hbase-handler-0.13.0.jar

这两个包都需要复制到 hive 安装目录的 lib 文件夹下,并且注意他们之间版本要匹配。

这里面对他们的整合做一个简单的描述和总结,更详细的内容,可以查看文档。

### 对于 hadoop2.2 的安装可参考:

hadoop2.2 完全分布式最新高可靠安装文档

http://www.aboutyun.com/thread-7684-1-1.html

#### hbase 0.96 整合到 hadoop2.2 可参考:

hbase 0.96 整合到 hadoop2.2 三个节点全分布式安装高可靠文档 http://www.aboutyun.com/thread-7746-1-1.html

下文详细讲解了 hbase0.96 及 hive0.12 的整合文档: 链接地址为: http://www.aboutyun.com/thread-7881-1-1.html

hbase0.96 与 hive0.12 整合高可靠文档及问题总结

#### 问题导读:

- 1.hive 安装是否需要安装 mysql?
- 2.hive 是否分为客户端和服务器端?
- 3.hive 的元数据库有哪两种?
- 4.hive 与 hbase 整合的关键是什么?
- 5.hive 的安装是否必须安装 hadoop?
- 6.hive 与 hbase 整合需要做哪些准备工作?



网上有很多资料,看到大部分都是一致的,看到一篇国外的文章,原来都是翻译的,并没有 经过实践。这里记录一下实践的过程。

#### 本篇是在:

hadoop2.2 完全分布式最新高可靠安装文档

hbase 0.96 整合到 hadoop2.2 三个节点全分布式安装高可靠文档

#### 基础上的一个继续:

因为 derby 数据库使用的局限性,我们采用 mysql 作为元数据库。

derby 存在什么缺陷

- 1.derby 不能多个客户端登录
- 2.derby 登录必须在相同目录下,否则可能会找不到所创建的表。

比如在/hive 目录下启动 hive 程序,那么所创建的表就会存储在/hive 下面保存。如果在/home 下面,所创建的表就会在/home 下面保存。这样导致初学者摸不着头脑。如果还不是不太明白可以,可以参考

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hive 使用 derby 作为元数据库找达到所创建表的原因

http://www.aboutyun.com/thread-7803-1-1.html

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下面我们开始安装:

#### 1.下载 hivehive

链接: http://pan.baidu.com/s/1eQw0o50 密码: mgy6

#### 2. 安装:

tar zxvf hive-0.12.0.tar.gz 重命令名为: hive 文件夹 达到如下效果:

aboutyun@master:/usr\$ ls
bin games hbase hive.tar.gz jdk1.7 local share tmp
dfs hadoop hive include lib sbin src

#### 3. 替换 jar 包, 与 hbase0.96 和 hadoop2.2 版本一致

由于我们下载的 hive 是基于 hadoop1.3 和 hbase0.94 的,所以必须进行替换,因为我们的 hbse0.96 是基于 hadoop2.2 的,所以我们必须先解决 hive 的 hadoop 版本问题,目前我们从官网下载的 hive 都是用 1.几的版本编译的,因此我们需要自己下载源码来用 hadoop2.X 的版本重新编译 hive,这个过程也很简单,只需要如下步骤:

### (1) 进入/usr/hive/lib

```
aboutyun@master:/usr/hive/lib$ ls
antlr-runtime-3.4.jar
avro-1.7.1.jar
avro-mapred-1.7.1.jar
bonecp-0.7.1.RELEASE.jar
commons-codec-1.4.jar
commons-codec-1.6.jar
commons-codec-1.6.jar
commons-compress-1.4.1.jar
commons-configuration-1.6.jar
commons-lang-2.4.jar
commons-logging-1.1.jar
commons-logging-1.1.jar
commons-logging-3.2.1.jar
datanucleus-api-jdo-3.2.1.jar
datanucleus-core-3.2.2.jar
```

上面只是截取了一部分:

#### (2) 同步 hbase 的版本

先 cd 到 hive0.12.0/lib 下,将 hive-0.12.0/lib 下 hbase-0.94 开头的那两个 jar 包删掉,然后从/home/hadoop/hbase-0.96.0-hadoop2/lib 下 hbase 开头的包都拷贝过来

find /usr/hbase/hbas/lib -name "hbase\*.jar"|xargs -i cp {} ./

```
aboutyun@master:/usr/hive/lib$ find /usr/hbase/hbas/lib -name "hbase*.jar"|xargs
-i cp {} ./
```

#### (3) 基本的同步完成了

重点检查下 zookeeper 和 protobuf 的 jar 包是否和 hbase 保持一致,如果不一致,拷贝 protobuf.\*\*.jar 和 zookeeper-3.4.5.jar 到 hive/lib 下。

#### (4) 用 mysql 当原数据库,

找一个 mysql 的 jdbcjar 包 mysql-connector-java-5.1.10-bin.jar 也拷贝到 hive-0.12.0/lib 下

可以通过下面命令来查找是否存在

aboutyun@master:/usr/hive/lib\$ find -name mysql-connector-java\*
./mysql-connector-java-5.1.10.jar

如果不存在则下载:

链接: http://pan.baidu.com/s/1qdCDoGi 密码: 80yl

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注意 mysgl-connector-java-5.1.10-bin.jar

修改权限为 777 (chmod 777 mysql-connector-java-5.1.10-bin.jar)

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还有,看一下 hbase 与 hive 的通信包是否存在:

aboutyun@master:/usr/hive/lib\$ find -name hive-hbase-handler\*
./hive-hbase-handler-0.13.0-SNAPSHOT.jar

可以通过下面命令:

aboutyun@master:/usr/hive/lib\$ find -name hive-hbase-handler\* ./hive-hbase-handler-0.13.0-SNAPSHOT.jar 不存在则下载:

链接: http://pan.baidu.com/s/1gd9p0Fh 密码: 94g1

### 4. 安装 mysql

- Ubuntu 采用 apt-get 安装
- sudo apt-get install mysql-server
- 建立数据库 hive
- create database hivemeta
- 创建 hive 用户,并授权
- grant all on hive.\* to hive@'%' identified by 'hive';
- flush privileges;

对于 musql 的安装不熟悉,可以参考:

Ubuntu 下面卸载以及安装 mysql

http://www.aboutyun.com/thread-7788-1-1.html

上面命令解释一下:

- sudo apt-get install mysql-server 安装数据服务器,如果想尝试通过其他客户端远程连接, 则还需要安装 mysql-client
- create database hivemeta

这个使用来存储 hive 元数据, 所创建的数据库

• grant all on hive.\* to hive@'%' identified by 'hive'; 这个是授权,还是比较重要的,否则 hive 客户端远程连接会失败

里面的内容不要照抄:需要根据自己的情况来修改。上面的用户名和密码都为 hive。

如果连接不成功尝试使用 root 用户

- grant all on hive.\* to 'root'@'%'identified by '123';
- flush privileges;

4. 修改 hive-site 文件配置:

```
aboutyun@master:/usr/hive/conf$ ls
file:
                                     hive-log4j.properties.template
hive-default.xml.template
                                     hive-site-back.xml
                                     hive-site-locahostValue.xml
hive-env.sh
hive-env.sh.template
                                     hive-site-worng.xml
hive-exec-log4j.properties.template hive-site.xml
hive-log4i properties
aboutyun@master:/usr/hive/conf$ sudo nano hive-site.xml
[sudo] password for aboutyun:
aboutyun@master:/usr/hive/conf$
```

#### 下面配置需要注意的是:

(1) 使用的是 mysql 的 root 用户,密码为 123,如果你是用的 hive,把用户名和密码 该为 hive 即可:

#### (2) hdfs 新建文件并授予权限

#### 对于上面注意

```
bin/hadoop fs -mkdir /hive/warehouse
bin/hadoop fs -mkdir /hive/scratchdir
bin/hadoop fs -chmod g+w /hive/warehouse
bin/hadoop fs -chmod g+w /hive/scratchdir
```

#### (3) hive.aux.jars.path 切忌配置正确

不能有换行或则空格。特别是换行,看到很多文章都把他们给分开了,这对很多新手是一个很容易掉进去的陷阱。

- 1. cproperty>
- 2. <name>hive.aux.jars.path</name>
- 3. <value>file:///usr/hive/lib/hive-hbase-handler-0.13.0-SNAPSHOT.jar,fi
  le:///usr/hive/lib/protobuf-java-2.5.0.jar,file:///usr/hive/lib/hbase-c
  lient-0.96.0-hadoop2.jar,file:///usr/hive/lib/hbase-common-0.96.0-hadoo
  p2.jar,file:///usr/hive/lib/zookeeper-3.4.5.jar,file:///usr/hive/lib/gu
  ava-11.0.2.jar</value>
- 4. </property>

上面问题解决,把下面内容放到 hive-site 文件即可

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18. cproperty>

这里介绍两种配置方式,一种是远程配置,一种是本地配置。最好选择远程配置

#### 远程配置

1. <configuration> 2. cproperty> <name>hive.metastore.warehouse.dir</name> 4. <value>hdfs://master:8020/hive/warehouse</value> 5. 6. <property> 7. <name>hive.exec.scratchdir</name> <value>hdfs://master:8020/hive/scratchdir</value> 8. 9. </property> 10. cproperty> 11. <name>hive.querylog.location</name> 12. <value>/usr/hive/logs</value> 13. </property> 14. <property> 15. <name>javax.jdo.option.ConnectionURL</name> 16. <value>jdbc:mysql://172.16.77.15:3306/hiveMeta?createDatabaseIfNotExi st=true</value> 17. </property>

- 19. <name>javax.jdo.option.ConnectionDriverName</name>
- 20. <value>com.mysql.jdbc.Driver</value>
- 21. </property>
- 22. <property>
- 23. <name>javax.jdo.option.ConnectionUserName</name>
- 24. <value>hive</value>
- 25. </property>
- 26. <property>
- 27. <name>javax.jdo.option.ConnectionPassword</name>
- 28. <value>hive</value>
- 29. </property>
- 30. cproperty>
- 31. <name>hive.aux.jars.path</name>
- 32. <value>file:///usr/hive/lib/hive-hbase-handler-0.13.0-SNAPSHOT.jar,fi
  le:///usr/hive/lib/protobuf-java-2.5.0.jar,file:///usr/hive/lib/hbase-c
  lient-0.96.0-hadoop2.jar,file:///usr/hive/lib/hbase-common-0.96.0-hadoo
  p2.jar,file:///usr/hive/lib/zookeeper-3.4.5.jar,file:///usr/hive/lib/gu
  ava-11.0.2.jar</value>
- 33. </property>
- 34. <property>
- 35. <name>hive.metastore.uris</name>
- 36. <value>thrift://172.16.77.15:9083
- 37. </property>
- 38. </configuration>

#### 本地配置:

- 1. <configuration>
- 2. cproperty>
- 3. <name>hive.metastore.warehouse.dir</name>
- 4. <value>/user/hive\_remote/warehouse</value>
- 5.

```
6.
7. cproperty>
8. <name>hive.metastore.local</name>
9. <value>true</value>
10. 

11.
12. <property>
13. <name>javax.jdo.option.ConnectionURL</name>
14. <value>jdbc:mysql://localhost/hive_remote?createDatabaseIfNotExist=tr
   ue</value>
15. </property>
16.
17. cproperty>
18. <name>javax.jdo.option.ConnectionDriverName</name>
19. <value>com.mysql.jdbc.Driver</value>
20. </property>
21.
22. <property>
23. <name>javax.jdo.option.ConnectionUserName</name>
24. <value>root</value>
25. </property>
26.
27. cproperty>
28. <name>javax.jdo.option.ConnectionPassword</name>
29. <value>123</value>
30. 
31. </configuration>
```

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### 5. 修改其它配置:

1.修改 hadoop 的 hadoop-env.sh(否则启动 hive 汇报找不到类的错误)

```
# Set HADOOP_HOME to point to a specific hadoop install directory export HADOOP_HOME=/usr/hadoop

# Hive Configuration Directory can be controlled by: export HIVE_CONF_DIR=/usr/hive/conf
```

2.修改\$HIVE\_HOME/bin 的 hive-config.sh,增加以下三行

```
# processes --config option from command line
#
export JAVA_HOME=/usr/jdk1.7
export HIVE_HOME=/usr/hive
export HADOOP_HOME=/usr/hadoop
```

\*\*\*\*\*\*\*\*\*\*\*\*\*

首先说一些遇到的各种问题

1.遇到的问题

#### 问题 1: 元数据库未启动

这里首先概括一下,会遇到的问题。首先需要启动元数据库,通过下面命令:

- (1) hive --service metastore
- (2) hive --service metastore -hiveconf hive.root.logger=DEBUG,console

#### 注释:

-hiveconf hive.root.logger=DEBUG,console 命令的含义是进入 debug 模式,便于寻找错误

如果不启用元数据库, 而是使用下面命令

1. hive

你会遇到下面错误

```
1. Exception in thread "main" java.lang.RuntimeException:
         java.lang.RuntimeException: Unable to instantiate
         org.apache.hadoop.hive.metastore.HiveMetaStoreClient
2.
         org.apache.hadoop.hive.ql.session.SessionState.start(SessionState.java:
         295)
                               at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:679)
3.
                               at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:623)
4.
                               at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
5.
                               at
6.
         sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.ja
         va:57)
                               at
7.
          \verb|sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAcces)) | | | | | | | | | | | | | 
         rImpl.java:43)
8.
                               at java.lang.reflect.Method.invoke(Method.java:606)
9.
                               at org.apache.hadoop.util.RunJar.main(RunJar.java:212)
10. Caused by: java.lang.RuntimeException: Unable to instantiate
         org.apache.hadoop.hive.metastore.HiveMetaStoreClient
11.
         org.apache.hadoop.hive.metastore.MetaStoreUtils.newInstance(MetaStoreUt
         ils.java:1345)
12.
         org.apache.hadoop.hive.metastore.RetryingMetaStoreClient.<init>(Retryin
         gMetaStoreClient.java:62)
13.
         org.apache.hadoop.hive.metastore.RetryingMetaStoreClient.getProxy(Retry
ingMetaStoreClient.java:72)
```

```
14.
   org.apache.hadoop.hive.ql.metadata.Hive.createMetaStoreClient(Hive.java
   :2420)
15.
   org.apache.hadoop.hive.ql.metadata.Hive.getMSC(Hive.java:2432)
   org.apache.hadoop.hive.ql.session.SessionState.start(SessionState.java:
   289)
         ... 7 more
17.
18. Caused by: java.lang.reflect.InvocationTargetException
          at sun.reflect.NativeConstructorAccessorImpl.newInstanceO(Native
19.
   Method)
20.
           at
   sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructor
   AccessorImpl.java:57)
21.
          at
   sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingCon
   structorAccessorImpl.java:45)
22.
   java.lang.reflect.Constructor.newInstance(Constructor.java:526)
23.
           at
   org.apache.hadoop.hive.metastore.MetaStoreUtils.newInstance(MetaStoreUt
  ils.java:1343)
24.
          ... 12 more
25. Caused by: MetaException(message:Could not connect to meta store using any
   of the URIs provided. Most recent failure:
   org.apache.thrift.transport.TTransportException:
26.
27.
28. java.net.ConnectException: Connection refused
29. at org.apache.thrift.transport.TSocket.open(TSocket.java:185)
```

```
30.
   org.apache.hadoop.hive.metastore.HiveMetaStoreClient.open(HiveMetaStore
   Client.java:288)
31.
           at
   org.apache.hadoop.hive.metastore.HiveMetaStoreClient.<init>(HiveMetaSto
   reClient.java:169)
32.
           at sun.reflect.NativeConstructorAccessorImpl.newInstanceO(Native
   Method)
33.
           at
   sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructor
   AccessorImpl.java:57)
34.
          at
   sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingCon
   structorAccessorImpl.java:45)
           at
35.
   java.lang.reflect.Constructor.newInstance(Constructor.java:526)
36.
           at
   org.apache.hadoop.hive.metastore.MetaStoreUtils.newInstance(MetaStoreUt
   ils.java:1343)
37.
           at
   org.apache.hadoop.hive.metastore.RetryingMetaStoreClient.<init>(Retryin
   gMetaStoreClient.java:62)
38.
           at
   org.apache.hadoop.hive.metastore.RetryingMetaStoreClient.getProxy(Retry
   ingMetaStoreClient.java:72)
39.
   org.apache.hadoop.hive.ql.metadata.Hive.createMetaStoreClient(Hive.java
   :2420)
40.
org.apache.hadoop.hive.ql.metadata.Hive.getMSC(Hive.java:2432)
```

```
41.
         org.apache.hadoop.hive.ql.session.SessionState.start(SessionState.java:
         289)
                               at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:679)
42.
43.
                               at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:623)
44.
                               at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
45.
         sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.ja
         va:57)
                              at
46.
         \verb|sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAcces)) | | | | | | | | | | | | | 
         rImpl.java:43)
                               at java.lang.reflect.Method.invoke(Method.java:606)
47.
                               at org.apache.hadoop.util.RunJar.main(RunJar.java:212)
48.
49. Caused by: java.net.ConnectException: Connection refused
50.
                               at java.net.PlainSocketImpl.socketConnect(Native Method)
51.
                               at
         java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java
         :339)
52.
                               at
         java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketIm
         pl.java:200)
53.
                               at
         java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:1
         82)
54.
                               at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)
                               at java.net.Socket.connect(Socket.java:579)
55.
                               at org.apache.thrift.transport.TSocket.open(TSocket.java:180)
56.
57.
                               ... 19 more
58.)
```

```
59. at
    org.apache.hadoop.hive.metastore.HiveMetaStoreClient.open(HiveMetaStore
    Client.java:334)
60. at
    org.apache.hadoop.hive.metastore.HiveMetaStoreClient.<init>(HiveMetaSto
    reClient.java:169)
61. ... 17 more
```

#### 问题 2: 元数据库启动状态是什么样子的

```
aboutyun@slave1:~$ hive --service metastore
Starting Hive Metastore Server
14/05/27 20:14:51 INFO Configuration.deprecation: mapred.input.dir.recursive is
deprecated. Instead, use mapreduce.input.fileinputformat.input.dir.recursive
14/05/27 20:14:51 INFO Configuration.deprecation: mapred.max.split.size is depre
cated. Instead, use mapreduce.input.fileinputformat.split.maxsize
14/05/27 20:14:51 INFO Configuration.deprecation: mapred.min.split.size is depre
cated. Instead, use mapreduce.input.fileinputformat.split.minsize
14/05/27 20:14:51 INFO Configuration.deprecation: mapred.min.split.size.per.rack
is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.per.r
14/05/27 20:14:51 INFO Configuration.deprecation: mapred.min.split.size.per.node
is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.per.n
ode
14/05/27 20:14:51 INFO Configuration.deprecation: mapred.reduce.tasks is depreca
ted. Instead, use mapreduce.job.reduces
14/05/27 20:14:51 INFO Configuration.deprecation: mapred.reduce.tasks.speculativ
e.execution is deprecated. Instead, use mapreduce.reduce.speculative
```

- 1. hive --service metastore
- 2. Starting Hive Metastore Server
- 3. 14/05/27 20:14:51 INFO Configuration.deprecation: mapred.input.dir.recursive is deprecated. Instead, use mapreduce.input.fileinputformat.input.dir.recursive
- 4. 14/05/27 20:14:51 INFO Configuration.deprecation: mapred.max.split.size is deprecated. Instead, use mapreduce.input.fileinputformat.split.maxsize
- 5. 14/05/27 20:14:51 INFO Configuration.deprecation: mapred.min.split.size is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize

- 6. 14/05/27 20:14:51 INFO Configuration.deprecation: mapred.min.split.size.per.rack is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.per.rack
- 7. 14/05/27 20:14:51 INFO Configuration.deprecation: mapred.min.split.size.per.node is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.per.node
- 8. 14/05/27 20:14:51 INFO Configuration.deprecation: mapred.reduce.tasks is deprecated. Instead, use mapreduce.job.reduces
- 9. 14/05/27 20:14:51 INFO Configuration.deprecation: mapred.reduce.tasks.speculative.execution is deprecated. Instead, use mapreduce.reduce.speculative

刚开始遇到这种情况,我知道是因为可能没有配置正确,这个耗费了很长时间,一直没有找 到正确的解决方案。当再次执行

#### hive --service metastore

ies hive>

命令的时候报 4083 端口被暂用: 报错如下红字部分。表示 9083 端口已经被暂用,也就是说客户端已经和主机进行了通信,当我在进行输入 hive 命令的时候,进入下面图 1 界面

```
aboutyun@master:~$ hive
14/05/27 20:22:36 INFO Configuration.deprecation: mapred.input.dir.recursiv
eprecated. Instead, use mapreduce.input.fileinputformat.input.dir.recursive
14/05/27 20:22:36 INFO Configuration.deprecation: mapred.max.split.size is
ated. Instead, use mapreduce.input.fileinputformat.split.maxsize
14/05/27 20:22:36 INFO Configuration.deprecation: mapred.min.split.size is
ated. Instead, use mapreduce.input.fileinputformat.split.minsize
14/05/27 20:22:36 INFO Configuration.deprecation: mapred.min.split.size.per
is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.p
14/05/27 20:22:36 INFO Configuration.deprecation: mapred.min.split.size.per
is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.p
14/05/27 20:22:36 INFO Configuration.deprecation: mapred.reduce.tasks is de
ed. Instead, use mapreduce.job.reduces
14/05/27 20:22:36 INFO Configuration.deprecation: mapred.reduce.tasks.specu
.execution is deprecated. Instead, use mapreduce.reduce.speculative
Logging initialized using configuration in file:/usr/hive/conf/hive-log4j.p
```

图 1

```
1. Could not create ServerSocket on address 0.0.0.0/0.0.0.0:9083.
2.
                              at
         org.apache.thrift.transport.TServerSocket.<init>(TServerSocket.java:93)
3.
                              at
         org.apache.thrift.transport.TServerSocket.<init>(TServerSocket.java:75)
4.
                              at
         org.apache.hadoop.hive.metastore.TServerSocketKeepAlive.<init>(TServerS
         ocketKeepAlive.java:34)
5.
                              at
         org.apache.hadoop.hive.metastore.HiveMetaStore.startMetaStore(HiveMetaS
        tore.java:4291)
6.
                              at
         org.apache.hadoop.hive.metastore.HiveMetaStore.main(HiveMetaStore.java:
         4248)
                              at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
7.
         sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.ja
        va:57)
                              at
         \verb|sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.invoke(DelegatingMethodAcces)) | | | | | | | | | | | | | 
         rImpl.java:43)
10.
                              at java.lang.reflect.Method.invoke(Method.java:606)
11.
                              at org.apache.hadoop.util.RunJar.main(RunJar.java:212)
12. Exception in thread "main"
         org.apache.thrift.transport.TTransportException: Could not create
         ServerSocket on address 0.0.0.0/0.0.0:9083.
13.
                        at
         org.apache.thrift.transport.TServerSocket.<init>(TServerSocket.java:93)
14.
                              at
org.apache.thrift.transport.TServerSocket.<init>(TServerSocket.java:75)
```

```
15.
   org.apache.hadoop.hive.metastore.TServerSocketKeepAlive.<init>(TServerS
   ocketKeepAlive.java:34)
16.
           at
   org.apache.hadoop.hive.metastore.HiveMetaStore.startMetaStore(HiveMetaS
   tore.java:4291)
17.
           at
   org.apache.hadoop.hive.metastore.HiveMetaStore.main(HiveMetaStore.java:
           at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
18.
19.
           at
   sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.ja
   va:57)
20.
           at
   sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccesso
   rImpl.java:43)
21.
           at java.lang.reflect.Method.invoke(Method.java:606)
           at org.apache.hadoop.util.RunJar.main(RunJar.java:212)
```

对于端口的暂用,可以采用下面命令杀掉进程

1. netstat -ap|grep 4083

上面主要的作用是查出暂用端口的进程id,然后使用下面命令杀掉进程即可

1. kill -9 进程号

详细可以查看下面内容:

使用配置 hadoop 中常用的 Linux 命令

### 问题 3: hive.aux.jars.path 配置中含有看换行或则空格,报错如下

#### 错误表现 1: /usr/hive/lib/hbase-client-0.96.0-

hadoop2.jar

整个路径错位,导致系统不能识别,这个错位,其实就是换行。

1.

```
2. FAILED: Execution Error, return code 1 from
   org.apache.hadoop.hive.ql.exec.mr.MapRedTask
3.
4.
5. java.io.FileNotFoundException: File does not exist:
   hdfs://hydra0001/opt/module/hive-0.10.0-cdh4.3.0/lib/hive-builtins-0.10
   .0-cdh4.3.0.jar
6. 2014-05-24 19:32:06,563 ERROR exec.Task
   (SessionState.java:printError(440)) - Job Submission failed with exception
   'java.io.FileNotFoundException(File
   file:/usr/hive/lib/hbase-client-0.96.0-
7. hadoop2.jar does not exist)'
8. java.io.FileNotFoundException: File
   file:/usr/hive/lib/hbase-client-0.96.0-
9. hadoop2.jar does not exist
10.
           at
   org.apache.hadoop.fs.RawLocalFileSystem.getFileStatus(RawLocalFileSyste
   m.java:520)
11.
           at
   org.apache.hadoop.fs.FilterFileSystem.getFileStatus(FilterFileSystem.ja
   va:398)
           at org.apache.hadoop.fs.FileUtil.copy(FileUtil.java:337)
12.
           at org.apache.hadoop.fs.FileUtil.copy(FileUtil.java:289)
13.
14.
           at
   org.apache.hadoop.mapreduce.JobSubmitter.copyRemoteFiles(JobSubmitter.j
   ava:139)
15.
   org.apache.hadoop.mapreduce.JobSubmitter.copyAndConfigureFiles(JobSubmi
   tter.java:212)
16.
           at
   org.apache.hadoop.mapreduce.JobSubmitter.copyAndConfigureFiles(JobSubmi
tter.java:300)
```

```
17.
   org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter
   .java:387)
           at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1268)
18.
19.
           at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1265)
20.
           at java.security.AccessController.doPrivileged(Native Method)
21.
           at javax.security.auth.Subject.doAs(Subject.java:415)
22.
           a†
   org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformati
   on.java:1491)
23.
           at org.apache.hadoop.mapreduce.Job.submit(Job.java:1265)
24.
           at org.apache.hadoop.mapred.JobClient$1.run(JobClient.java:562)
           at org.apache.hadoop.mapred.JobClient$1.run(JobClient.java:557)
25.
           at java.security.AccessController.doPrivileged(Native Method)
26.
27.
           at javax.security.auth.Subject.doAs(Subject.java:415)
28.
           at
   org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformati
   on.java:1491)
29.
           at
   org.apache.hadoop.mapred.JobClient.submitJobInternal(JobClient.java:557
   )
30.
           at
   org.apache.hadoop.mapred.JobClient.submitJob(JobClient.java:548)
31.
           at
   org.apache.hadoop.hive.ql.exec.mr.ExecDriver.execute(ExecDriver.java:42
   4)
32.
           at
   org.apache.hadoop.hive.ql.exec.mr.MapRedTask.execute(MapRedTask.java:13
   6)
33.
           at
org.apache.hadoop.hive.ql.exec.Task.executeTask(Task.java:152)
```

```
34.
   org.apache.hadoop.hive.ql.exec.TaskRunner.runSequential(TaskRunner.java
           at org.apache.hadoop.hive.ql.Driver.launchTask(Driver.java:1481)
35.
36.
           at org.apache.hadoop.hive.ql.Driver.execute(Driver.java:1258)
37.
   org.apache.hadoop.hive.ql.Driver.runInternal(Driver.java:1092)
38.
           at org.apache.hadoop.hive.ql.Driver.run(Driver.java:932)
           at org.apache.hadoop.hive.ql.Driver.run(Driver.java:922)
39.
40.
           at
   org.apache.hadoop.hive.cli.CliDriver.processLocalCmd(CliDriver.java:268
41.
           at
   org.apache.hadoop.hive.cli.CliDriver.processCmd(CliDriver.java:220)
42.
           at
   org.apache.hadoop.hive.cli.CliDriver.processLine(CliDriver.java:422)
43.
           at
   org.apache.hadoop.hive.cli.CliDriver.executeDriver(CliDriver.java:790)
44.
           at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:684)
           at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:623)
45.
           at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
46.
47.
           at
   sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.ja
   va:57)
48.
           at
   sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccesso
   rImpl.java:43)
           at java.lang.reflect.Method.invoke(Method.java:606)
49.
50.
           at org.apache.hadoop.util.RunJar.main(RunJar.java:212)
51.
52.
```

```
53. 2014-05-24 19:32:06,571 ERROR ql.Driver
    (SessionState.java:printError(440)) - FAILED: Execution Error, return code
    1 from org.apache.hadoop.hive.ql.exec.mr.MapRedTask
```

#### 错误表现 2:

上面看那上去很整洁,但是如果直接复制到配置文件中,就会产生下面错误。

```
1. Caused by: java.net.URISyntaxException: Illegal character in scheme name
   at index 0:
2. file:///usr/hive/lib/protobuf-java-2.5.0.jar
           at java.net.URI$Parser.fail(URI.java:2829)
3.
           at java.net.URI$Parser.checkChars(URI.java:3002)
4.
         at java.net.URI$Parser.checkChar(URI.java:3012)
5.
         at java.net.URI$Parser.parse(URI.java:3028)
6.
           at java.net.URI.<init>(URI.java:753)
7.
           at org.apache.hadoop.fs.Path.initialize(Path.java:203)
8.
9.
          ... 37 more
```

```
10. Job Submission failed with exception
    'java.lang.IllegalArgumentException(java.net.URISyntaxException: Illegal character in scheme name at index 0:
11. file:///usr/hive/lib/protobuf-java-2.5.0.jar)'
12. FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.mr.MapRedTask
```



# 验证 hive 与 hbase 的整合:

一、启动 hbase 与 hive 启动 hbase

1. hbase shell

复制代码

```
aboutyun@master:~$ start-hbase.sh slave1: starting zookeeper, logging to /usr/hbase/bin/../logs/hbase-aboutyukeeper-slave1.out slave2: starting zookeeper, logging to /usr/hbase/bin/../logs/hbase-aboutyukeeper-slave2.out master: starting zookeeper, logging to /usr/hbase/bin/../logs/hbase-aboutyukeeper-master.out starting master, logging to /usr/hbase/bin/../logs/hbase-aboutyun-master-master.out slave2: starting regionserver, logging to /usr/hbase/bin/../logs/hbase-aboutyun-slave2.out slave1: starting regionserver, logging to /usr/hbase/bin/../logs/hbase-aboutyun-slave1.out
```

#### 启动 hive

(1)启动元数据库

```
aboutyun@master:~$ hive --service metastore
Starting Hive Metastore Server
14/05/28 13:37:58 INFO Configuration.deprecation: mapred.input.dir.recursiv
deprecated. Instead, use mapreduce.input.fileinputformat.input.dir.recursiv
14/05/28 13:37:58 INFO Configuration.deprecation: mapred.max.split.size is
cated. Instead, use mapreduce.input.fileinputformat.split.maxsize
14/05/28 13:37:58 INFO Configuration.deprecation: mapred.min.split.size is
cated. Instead, use mapreduce.input.fileinputformat.split.minsize
14/05/28 13:37:58 INFO Configuration.deprecation: mapred.min.split.size.per
is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.
14/05/28 13:37:58 INFO Configuration.deprecation: mapred.min.split.size.per
is deprecated. Instead, use mapreduce.input.fileinputformat.split.minsize.
ode
14/05/28 13:37:58 INFO Configuration.deprecation: mapred.reduce.tasks is de
ted. Instead, use mapreduce.job.reduces
14/05/28 13:37:58 INFO Configuration.deprecation: mapred.reduce.tasks.specu
e.execution is deprecated. Instead, use mapreduce.reduce.speculative
```

```
1. CREATE TABLE hbase_table_1(key int, value string) STORED BY
   'org.apache.hadoop.hive.hbase.HBaseStorageHandler' WITH SERDEPROPERTIES
   ("hbase.columns.mapping" = ":key,cf1:val") TBLPROPERTIES
   ("hbase.table.name" = "xyz");
```

上面的含义是在 hive 中建表 hbase\_table\_1,通过 org.apache.hadoop.hive.hbase.HBaseStorageHandler 这个类映射,在 hbase 建立与之对应的 xyz 表。

(1) 执行这个语句之前: 首先查看 hbase 与 hive:

### hbase 为空:

```
hbase(main):023:0> list
TABLE
0 row(s) in 0.0940 seconds
=> []
hbase(main):024:0>
```

```
hive> show tables;
OK
Time taken: 0.039 seconds
```

#### (2) 执行

```
1. CREATE TABLE hbase_table_1(key int, value string) STORED BY
   'org.apache.hadoop.hive.hbase.HBaseStorageHandler' WITH SERDEPROPERTIES
   ("hbase.columns.mapping" = ":key,cf1:val") TBLPROPERTIES
   ("hbase.table.name" = "xyz");
```

```
hive> CREATE TABLE hbase_table_1(key int, value string) STORED BY 'org.apache.ha
doop.hive.hbase.HBaseStorageHandler' WITH SERDEPROPERTIES ("hbase.columns.mappin
g" = ":key,cf1:val") TBLPROPERTIES ("hbase.table.name" = "xyz");
OK
Time taken: 3.776 seconds
```

#### (3) 对比发生变化

hbase 显示新建表 xyz

```
hbase(main):024:0> list

xyz

1 row(s) in 0.0690 seconds

=> ["xyz"]
```

hive 显示新建表 hbase\_table\_1

```
hive> show tables;

OK

nbase_table_1

rime taken. v.022 seconds, Fetched: 1 row(s)

hive>
```

### 三、验证整合,在 hbase 插入表

#### (1) 通过 hive 添加数据

在 hbase 中插入一条记录:

```
1. put 'xyz','10001','cf1:val','www.aboutyun.com'
复制代码
```

```
hbase(main):027:0> put 'xyz','10001','cf1:val','www.aboutyun.com'
```

分别查看 hbase 与 hive 表发生的变化:

(1) hbase 变化

```
hbase(main):029:0> scan 'xyz'
ROW COLUMN+CELL
10001 column=cf1:val, timestamp=1401258963479, value=1
1 row(s) in 0.0530 seconds
```

#### (2) hive 变化

```
hive> select * from hbase_table_1;
OK
10001 www.aboutyun.com
Time taken: 3.498 seconds, Fetched: 1 row(s)
hive>
```

#### (2) 通过 hbase 添加数据

对于网上流行的通过 pokes 表,插入这里没有执行成功,通过网上查询,可能是 hive0.12 的一个 bug.详细可以查看:

```
    INSERT OVERWRITE TABLE hbase_table_1 SELECT * FROM pokes;
    Total MapReduce jobs = 1
    Launching Job 1 out of 1
    Number of reduce tasks is set to 0 since there's no reduce operator
    java.lang.IllegalArgumentException: Property value must not be null
    at
        com.google.common.base.Preconditions.checkArgument(Preconditions.java:8
        8)
    at org.apache.hadoop.conf.Configuration.set(Configuration.java:810)
```

```
8. at org.apache.hadoop.conf.Configuration.set(Configuration.java:792)
9. at
   org.apache.hadoop.hive.ql.exec.Utilities.copyTableJobPropertiesToConf(U
   tilities.java:1996)
10. at
   org.apache.hadoop.hive.ql.exec.FileSinkOperator.checkOutputSpecs(FileSi
   nkOperator.java:864)
11. at
   org.apache.hadoop.hive.ql.io.HiveOutputFormatImpl.checkOutputSpecs(Hive
   OutputFormatImpl.java:67)
12. at
   org.apache.hadoop.mapreduce.JobSubmitter.checkSpecs(JobSubmitter.java:4
   58)
13. at
   org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter
   .java:342)
14. at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1268)
15. at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1265)
16. at java.security.AccessController.doPrivileged(Native Method)
17. at javax.security.auth.Subject.doAs(Subject.java:415)
18. at
   org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformati
   on.java:1491)
19. at org.apache.hadoop.mapreduce.Job.submit(Job.java:1265)
20. at org.apache.hadoop.mapred.JobClient$1.run(JobClient.java:562)
21. at org.apache.hadoop.mapred.JobClient$1.run(JobClient.java:557)
22. at java.security.AccessController.doPrivileged(Native Method)
23. at javax.security.auth.Subject.doAs(Subject.java:415)
24. at
   org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformati
 on.java:1491)
```

```
25. at
   org.apache.hadoop.mapred.JobClient.submitJobInternal(JobClient.java:557
26. at org.apache.hadoop.mapred.JobClient.submitJob(JobClient.java:548)
27. at
   org.apache.hadoop.hive.ql.exec.mr.ExecDriver.execute(ExecDriver.java:42
   4)
28. at
   org.apache.hadoop.hive.ql.exec.mr.MapRedTask.execute(MapRedTask.java:13
   6)
29. at org.apache.hadoop.hive.ql.exec.Task.executeTask(Task.java:152)
30. at
   org.apache.hadoop.hive.ql.exec.TaskRunner.runSequential(TaskRunner.java
   :65)
31. at org.apache.hadoop.hive.ql.Driver.launchTask(Driver.java:1481)
32. at org.apache.hadoop.hive.ql.Driver.execute(Driver.java:1258)
33. at org.apache.hadoop.hive.ql.Driver.runInternal(Driver.java:1092)
34. at org.apache.hadoop.hive.ql.Driver.run(Driver.java:932)
35. at org.apache.hadoop.hive.ql.Driver.run(Driver.java:922)
36. at
   org.apache.hadoop.hive.cli.CliDriver.processLocalCmd(CliDriver.java:268
   )
37. at org.apache.hadoop.hive.cli.CliDriver.processCmd(CliDriver.java:220)
38. at org.apache.hadoop.hive.cli.CliDriver.processLine(CliDriver.java:422)
39. at
   org.apache.hadoop.hive.cli.CliDriver.executeDriver(CliDriver.java:790)
40. at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:684)
41. at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:623)
42. at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
43. at
   sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.ja
  va:57)
```

```
44. at
    sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccesso
    rImpl.java:43)
45. at java.lang.reflect.Method.invoke(Method.java:606)
46. at org.apache.hadoop.util.RunJar.main(RunJar.java:212)
47. Job Submission failed with exception
    'java.lang.IllegalArgumentException(Property value must not be null)'
48. FAILED: Execution Error, return code 1 from
    org.apache.hadoop.hive.ql.exec.mr.MapRedTask
```

网上找了很多资料,这个可能是一个 bug, 在 hive0.13.0 已经修复。详细见:

https://issues.apache.org/jira/browse/HIVE-5515

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