

大数据技术-第八章：Hive数据仓库 Hive格式化和启动



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01

初始化Hive元数据



➤ 初始化Hive元数据

(1) 将MySQL数据库驱动文件/opt/software/mysql-connector-java-5.1.48.jar拷贝到Hive安装目录的/usr/local/src/hive/lib目录下。

```
[hadoop@master ~]$ cp /opt/software/mysql-connector-java-5.1.48.jar  
/usr/local/src/hive/lib/
```

(2) 启动Hadoop相关进程。

```
[hadoop@master ~]$ start-all.sh
```

» 初始化Hive元数据

分布在master、slave1、slave2三个节点执行JPS命令检查Hadoop进程运行是否正常。

需要关注进程ID号每次启动会发生变化。

```
[hadoop@master ~]$ jps # master节点
```

```
1152 NameNode
```

```
1472 ResourceManager
```

```
1330 SecondaryNameNode
```

```
2025 Jps
```

```
[root@slave1 ~]# su - hadoop # slave1节点
```

```
[hadoop@slave1 ~]$ jps
```

```
1173 NodeManager
```

```
1322 Jps
```

```
1069 DataNode
```

```
[root@slave2 ~]# su - hadoop # slave2节点
```

```
[hadoop@slave2 ~]$ jps
```

```
1076 DataNode
```

```
1317 Jps
```

```
1180 NodeManager
```

» 初始化Hive元数据

(4) 初始化Hive元数据。

使用schematool升级元数据，将Hive的元数据重新写入MySQL数据库中。

```
[hadoop@master ~]$ schematool -initSchema -dbType mysql
```

```
Metastore connection URL:
```

```
jdbc:mysql://master:3306/hive?createDatabaseIfNotExist=true&useSSL=false
```

```
Metastore Connection Driver : com.mysql.jdbc.Driver
```

```
Metastore connection User: root
```

```
Starting metastore schema initialization to 2.0.0
```

```
Initialization script hive-schema-2.0.0.mysql.sql
```

```
Initialization script completed
```

```
schemaTool completed
```

以上命令结果显示schemaTool completed，则表示Hive元数据写入MySQL数据库成功。

02

启动Hive



» 启动Hive

(1) 在系统的任意目录下，执行hive命令即可启动Hive组件。

```
[hadoop@master ~]$ hive
```

```
Logging initialized using configuration in jar:file:/usr/local/src/hive/lib/hive-common-2.0.0.jar!/hive-log4j.properties
```

```
SLF4J: Class path contains multiple SLF4J bindings.
```

```
SLF4J: Found binding in [jar:file:/usr/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
```

```
SLF4J: Found binding in [jar:file:/usr/local/src/hive/lib/hive-jdbc-2.0.0-standalone.jar!/org/slf4j/impl/StaticLoggerBinder.class]
```

```
SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings for an explanation.
```

```
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
```

```
hive>
```

(2) 执行exit命令退出Hive命令行状态。

```
hive> exit;
```


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