## flink相关的下载包

https://flink.apache.org/downloads.html

# 编译flink 配套hadoop包

主要为了编译flink-shaded-hadoop-3-uber-3.0.0-cdh6.3.2-10.0.jar包

#### 根目录porm.xml添加标签

```
2 cprofile>
3 <id>vendor-repos</id>
4 <activation>
5 cproperty>
6 <name>vendor-repos</name>
7 
8 </activation>
9 <!-- Add vendor maven repositories -->
10 <repositories>
11 <!-- Cloudera -->
12 <repository>
13 <id>cloudera-releases</id>
14 <url>https://repository.cloudera.com/artifactory/cloudera-repos</url>
15 <releases>
16
   <enabled>true</enabled>
17 </releases>
18 <snapshots>
  <enabled>false</enabled>
  </snapshots>
20
  </repository>
21
  <!-- Hortonworks -->
   <repository>
23
  <id>HDPReleases</id>
24
25
   <name>HDP Releases</name>
    <url>https://repo.hortonworks.com/content/repositories/releases/</url>
    <snapshots><enabled>false</enabled></snapshots>
27
    <releases><enabled>true</enabled></releases>
   </repository>
29
```

```
<repository>
31 <id>HortonworksJettyHadoop</id>
   <name>HDP Jetty
32
   <url>https://repo.hortonworks.com/content/repositories/jetty-hadoop</ur>
33
1>
34
   <snapshots><enabled>false</enabled></snapshots>
   <releases><enabled>true</enabled></releases>
35
   </repository>
36
   <!-- MapR -->
   <repository>
38
   <id>mapr-releases</id>
40
  <url>https://repository.mapr.com/maven/</url>
   <snapshots><enabled>false</enabled></snapshots>
   <releases><enabled>true</enabled></releases>
42
43 </repository>
44 </repositories>
45 </profile>
```

修改工程flink-shaded-10.0中porm.xml相关的版本,设计到cdh中的hadoop zookeeper 等版本均需要修改

```
<parent>
   <groupId>org.apache.flink</groupId>
   <artifactId>flink-shaded</artifactId>
    <version>10.0</version>
    <relativePath>..</relativePath>
</parent>
<artifactId>flink-shaded-hadoop-3-parent</artifactId>
<name>flink-shaded-hadoop-3-parent</name>
<packaging>pom</packaging>
<version>10.0</version>
cproperties>
   <!-- never use this in the parent module; otherwise it
       not be done since the parent reference in child mod
       cannot be resolved -->
   <hadoop.version>3.0.0</hadoop.version>
   <avro.version>1.8.2</avro.version>
   <slf4j.version>1.7.15</slf4j.version>
   <log4j.version>1.2.17</log4j.version>
    <zookeeper.version>3.4.5</zookeeper.version>
    <findbugs.version>1.3.9</findbugs.version>
</properties>
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```

#### #编译jar包

mvn -T2C clean install -DskipTests -Pvendor-repos -Dhadoop.version=3.0.0-cdh6.3.2 -Dscala-2.12 -Drat.skip=true

#### 包依赖报错

包依赖报错,阿里的镜像没有hadoop高版本的包,修改进行到maven官网重新安装 [WARNING] The requested profile "vendor-repos" could not be activated because it does not exist.

[ERROR] Failed to execute goal on project flink-shaded-hadoop-3: Could not resolve dependencies for project org.apache.flink:flink-shaded-hadoop-3:jar:3.0.0-cdh6.3.2-10.0: The following artifacts could not be resolved: org.apache.hadoop:hadoop-common:jar:3.0.0-cdh6.3.2, org.apache.hadoop:hadoop-hdfs:jar:3.0.0-cdh6.3.2, org.apache.hadoop:hadoop-mapreduce-client-core:jar:3.0.0-cdh6.3.2, org.apache.hadoop:hadoop-yarn-client:jar:3.0.0-cdh6.3.2, org.apache.hadoop:hadoop-yarn-common:jar:3.0.0-cdh6.3.2: Failure to find org.apache.hadoop:hadoop-common:jar:3.0.0-cdh6.3.2 in

http://maven.aliyun.com/nexus/content/repositories/central/ was cached in the local repository, resolution will not be reattempted until the update interval of alimaven has elapsed or updates are forced -> [Help 1]

#### peer not authenticated

#### 添加官方镜像,可能是网络,或者认证的原因

Failed to execute goal on project flink-shaded-jackson-module-jsonSchema: Could not resolve dependencies for project org. apache. flink:flink-shaded-jackson-module-jsonSchema:jar:2.10.1-10.0: Failed to collect dependencies for [com. fasterxml. jackson. core:jackson-core:jar:2.10.1 (compile), com. fasterxml. jackson. core:jackson-annotations:jar:2.10.1 (compile), com. fasterxml. jackson. core:jackson-databind:jar:2.10.1 (compile), com. fasterxml. jackson. module:jackson-module-jsonSchema:jar:2.10.1 (compile)]: Failed to read artifact descriptor for com. fasterxml. jackson. core:jackson-core:jar:2.10.1: Could not transfer artifact com. fasterxml. jackson:jackson-base:pom:2.10.1 from/to mapr-releases

https://repository.mapr.com/maven/): peer not authenticated

#### 最后会打印编译到的目录

[INFO] Installing /home/my/flink-shaded-10.0/flink-shaded-hadoop-3-parent/flink-shaded-hadoop-3-uber/target/flink-shaded-hadoop-3-uber-3.0.0-cdh6.3.2-10.0.jar to /root/.m2/repository/org/apache/flink/flink-shaded-hadoop-3-uber/3.0.0-cdh6.3.2-10.0/flink-shaded-hadoop-3-uber-3.0.0-cdh6.3.2-10.0.jar

#### # jar包目录

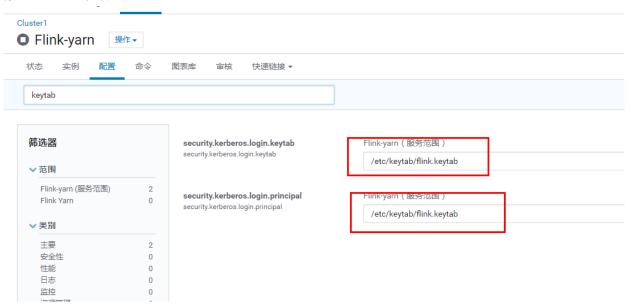
/root/.m2/repository/org/apache/flink/

### Flink1.10编译(可选)

建议直接下载flink-1.10.0-bin-scala\_2.12.tgz包参考 https://blog.csdn.net/mhtc5052/article/details/104560570 # mvn clean install -DskipTests -Dfast -Drat.skip=true - Dhaoop.version=3.0.0-cdh6.3.1 -Pvendor-repos -Dinclude-hadoop - Dscala-2.12 -T2C

# cdh上关闭kerberos安全

需要配置security.kerberos.login.keytab和security.kerberos.login.principal两个参数才能正正常启动。如未启动kerberos,则在CDH中添加FLINK服务时请清空这两个参数的内容清空这两个参数



org.apache.flink.configuration.IllegalConfigurationException: Kerberos login configuration is invalid; keytab is unreadable

```
- Error while running the Flink Yarn session.

org.apache.flink.configuration.llegalConfiguration(securityConfiguration.validate(SecurityConfiguration.java:139)
at org.apache.flink.runtime.security.SecurityConfiguration.validate(SecurityConfiguration.java:139)
at org.apache.flink.runtime.security.SecurityConfiguration.validate(SecurityConfiguration.java:139)
at org.apache.flink.runtime.security.SecurityConfiguration.validate(SecurityConfiguration.java:139)
at org.apache.flink.runtime.security.SecurityConfiguration.vality(SecurityConfiguration.java:71)

The program finished with the following exception:

org.apache.flink.configuration.llegalConfigurationException: Kerberos login configuration is invalid; keytab is unreadable at org.apache.flink.runtime.security.SecurityConfiguration.validate(SecurityConfiguration.java:139)
at org.apache.flink.runtime.security.SecurityConfiguration.validate(SecurityConfiguration.java:139)
at org.apache.flink.runtime.security.SecurityConfiguration.valityConfiguration.java:71)
at org.apache.flink.vantime.security.SecurityConfiguration.valityConfiguration.java:71)
```

# 安装成功最后可能需要重启Cloudera Management

### **Service**

需要重启,否则状态未知



# python 环境和依赖

#设置python镜像

/opt/anaconda3/bin/pip config set global.index-url

https://mirrors.aliyun.com/pypi/simple/

#安装基础包

/opt/anaconda3/bin/pip install pyflink apache-flink /opt/anaconda3/bin/pip install PyHDFS==0.2.1

- #修改默认python为python3, flink不支持python2
- #删除软连接

rm -f /usr/bin/python

# 创建软连接

In -s /opt/anaconda3/bin/python3.6 /usr/bin/python