

Hbase安装部署

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0. Refs

<https://dblab.xmu.edu.cn/blog/2442/>

1. 下载Hbase

<https://archive.apache.org/dist/hbase/>

认准hbase-2.2.2-bin.tar.gz

2. 安装配置Hbase

先解压

```
sudo tar -zxvf ~/Downloads/hbase-2.2.2-bin.tar.gz -C /usr/local
# 改个名字
cd /usr/local
sudo mv ./hbase-2.2.2 ./hbase
```

授予权限

```
cd /usr/local
sudo chown -R hadoop ./hbase
```

3. 配置环境变量

和之前的一起整合了以下，现在整个环境变量配置变成了这样：

```
export JAVA_HOME=/usr/lib/jvm/jdk1.8.0_162
export JRE_HOME=${JAVA_HOME}/jre
export HADOOP_HOME=/usr/local/hadoop
export HBASE_HOME=/usr/local/hbase

#export CLASSPATH=.:${JAVA_HOME}/lib:${JRE_HOME}/lib
export PATH=${JAVA_HOME}/bin:$PATH:$HADOOP_HOME/sbin:$HADOOP_HOME/bin

export HADOOP_INSTALL=$HADOOP_HOME
export HADOOP_MAPRED_HOME=$HADOOP_HOME
export HADOOP_COMMON_HOME=$HADOOP_HOME
export HADOOP_HDFS_HOME=$HADOOP_HOME
export YARN_HOME=$HADOOP_HOME
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/lib/native

export IDEA_HOME=~/.Applications/idea
alias idea='$IDEA_HOME/bin/idea.sh'
```

记得要

```
source ~/.bashrc
```

4. 检查是否安装成功

hbase version

```
hadoop@hadoop:~$ hbase version
/usr/local/hadoop/libexec/hadoop-functions.sh: line 2360: HADOOP_ORG.APACHE.HADO
OP.HBASE.UTIL.GETJAVAPROPERTY_USER: invalid variable name
/usr/local/hadoop/libexec/hadoop-functions.sh: line 2455: HADOOP_ORG.APACHE.HADO
OP.HBASE.UTIL.GETJAVAPROPERTY_OPTS: invalid variable name
Error: Could not find or load main class org.apache.hadoop.hbase.util.GetJavaPro
perty
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/local/hadoop/share/hadoop/common/lib/slf4
j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/local/hbase/lib/client-facing-thirdparty/
slf4j-log4j12-1.7.25.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]
HBase 2.2.2
Source code repository git://6ad68c41b902/opt/hbase-rm/output/hbase revision=e65
13a76c91cceda95dad7af246ac81d46fa2589
Compiled by hbase-rm on Sat Oct 19 10:10:12 UTC 2019
From source with checksum 4d23f97701e395c5d34db1882ac5021b
```

5. Hbase伪分布式配置

在/usr/local/hbase/conf下

hbase-env.sh

```
export JAVA_HOME=/usr/lib/jvm/jdk1.8.0_162
export HBASE_CLASSPATH=/usr/local/hbase/conf
export HBASE_MANAGES_ZK=true
```

hbase-site.xml

```
<configuration>
  <property>
    <name>hbase.rootdir</name>
    <value>hdfs://localhost:9000/hbase</value>
  </property>
  <property>
    <name>hbase.cluster.distributed</name>
    <value>true</value>
  </property>
</configuration>
```

```
</property>
<property>
  <name>hbase.unsafe.stream.capability.enforce</name>
  <value>false</value>
</property>
</configuration>
```

6. 测试运行Hbase

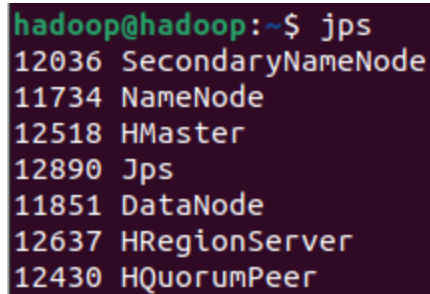
先连本机，再把hdfs点起来

```
ssh localhost
cd /usr/local/hadoop
./sbin/start-dfs.sh
```

再把Hbase点起来

```
cd /usr/local/hbase
bin/start-hbase.sh
```

jps后应该如下



```
hadoop@hadoop:~$ jps
12036 SecondaryNameNode
11734 NameNode
12518 HMaster
12890 Jps
11851 DataNode
12637 HRegionServer
12430 HQuorumPeer
```

尝试一下进入shell

```
bin/hbase shell
```

```

hadoop@hadoop:~$ hbase shell
/usr/local/hadoop/libexec/hadoop-functions.sh: line 2360: HADOOP_ORG.APACHE.HADO
OP.HBASE.UTIL.GETJAVAPROPERTY_USER: invalid variable name
/usr/local/hadoop/libexec/hadoop-functions.sh: line 2455: HADOOP_ORG.APACHE.HADO
OP.HBASE.UTIL.GETJAVAPROPERTY_OPTS: invalid variable name
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/local/hadoop/share/hadoop/common/lib/slf4
j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/local/hbase/lib/client-facing-thirdparty/
slf4j-log4j12-1.7.25.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]
2024-03-26 06:53:37,995 WARN [main] util.NativeCodeLoader: Unable to load nativ
e-hadoop library for your platform... using builtin-java classes where applicabl
e
hBase Shell
Use "help" to get list of supported commands.
Use "exit" to quit this interactive shell.
For Reference, please visit: http://hbase.apache.org/2.0/book.html#shell
Version 2.2.2, re6513a76c91cceda95dad7af246ac81d46fa2589, Sat Oct 19 10:10:12 UT
C 2019
Took 0.0176 seconds
hbase(main):001:0> hadoop@hadoop:~$ vim ~/.bashrc

```

如果你想退出hbase

记得先

```
stop-hbase.sh
```

再

```
stop-dfs.sh
```