Prepear

Hadoop 2.6.5

HBase 1.2.4

Download

```
1.  # https://archive.apache.org/dist/hbase/
2.  wget https://archive.apache.org/dist/hbase/1.2.4/hbase-1.2.4-bin.tar.gz
```

unzip

```
1.  tar -zxvf hbase-1.2.4-bin.tar.gz
```

Profile

vim ~/.bashrc

```
1.  export SOFT_BASE_PATH=/opt/soft
2.  export HADOOP_BASE_PATH=$SOFT_BASE_PATH
3.  export HADOOP_HOME=$HADOOP_BASE_PATH/hadoop-2.6.5
4.  # append hbase env setting
5.  export HBASE_HOME=$HADOOP_BASE_PATH/hbase-1.2.4-bin
6.  export PATH=$PATH:$HADOOP_HOME/bin:$HBASE_HOME/bin
```

load profile

```
1.  source ~/.bashrc
```

Deploy

hbase-env.sh

```
1.  cp $HBASE_HOME/conf/hbase-env.sh $HBASE_HOME/conf/hive-env.sh.bak
2.  vim $HBASE_HOME/conf/hbase-env.sh
```

```
1.  # backup
2.  export JAVA_HOME=/usr/lib/jvm/java-8-oracle/
3.  export HBASE_HEAPSIZE=4G
4.  # 设置为本机Hadoop安装目录下的conf目录（即{HADOOP_HOME}/conf）
5.  export HADOOP_BASE_PATH=/opt/soft
6.  export HADOOP_HOME=${HADOOP_BASE_PATH}/hadoop-2.6.5
7.  export HBASE_CLASSPATH=${HADOOP_HOME}/conf
8.  # 使用自带的zookeeper
9.  export HBASE_MANAGES_ZK=true
10. # 不用HBase管理Zookeeper集群
11. # export HBASE_MANAGES_ZK=false
```

hbase-site.xml

```
1.  # backup
2.  cp $HBASE_HOME/conf/hbase-site.xml $HBASE_HOME/conf/hbase-site.xml.bak
3.  vim $HBASE_HOME/conf/hbase-site.xml
```

```
1.  <configuration>
2.      <property>
3.          <name>hbase.rootdir</name>
4.          <value>hdfs://hadoop-ubuntu-01:9000/hbase</value>
5.      </property>
6.      <property>
7.          <name>hbase.cluster.distributed</name>
8.          <value>true</value>
9.      </property>
10.     <!-- HMaster相关参数 -->
11.     <property>
12.         <name>hbase.master.info.bindAddress</name>
13.         <value>0.0.0.0</value>
14.         <description>HBase Master Web UI的绑定地址，默认0.0.0.0</description>
15.     </property>
16.     <property>
17.         <name>hbase.master.info.port</name>
18.         <value>16010</value>
19.         <description>HBase Master Web UI端口，-1表示不运行Web UI</description>
20.     </property>
21.     <property>
22.         <name>hbase.zookeeper.property.dataDir</name>
23.         <value>/home/xenron/Documents/hbase/zookeeper</value>
24.     </property>
25. </configuration>
```

Start & Shutdown

```
1.  $HBASE_HOME/bin/start-hbase.sh
```

```
1.    jps
2.    # HMaster
3.    # HRegionServer
4.    # HQuorumPeer
```

```
1.    $HBASE_HOME/bin/stop-hbase.sh
```

Shell

```
1.    $HBASE_HOME/bin/hbase shell
```

```
1.    hbase(main):001:0> create 'member','member_id','address','info'
2.    hbase(main):002:0> list
3.    hbase(main):003:0> describe 'member'
4.    hbase(main):003:0> desc 'member'
5.    hbase(main):004:0> exit
```

```
xenron@xenron-XPS-8700-Ubuntu-14: ~/.ssh
xenron@xenron-XPS-8700-Ubuntu-14:~/.ssh$ $HBASE_HOME/bin/hbase shell
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/opt/soft/hbase-1.2.2/lib/slf4j-log4j12-1.7.5.
jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/opt/soft/hadoop-2.6.4/share/hadoop/common/lib
/slf4j-log4j12-1.7.5.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 Shell; enter 'help<RETURN>' for list of supported commands.
Type "exit<RETURN>" to leave the HBase Shell
Version 1.2.2, r3f671c1ead70d249ea4598f1bbcc5151322b3a13, Fri Jul  1 08:28:55 CD
T 2016

hbase(main):001:0> create 'member','member_id','address','info'
0 row(s) in 1.3680 seconds

=> Hbase::Table - member
hbase(main):002:0> list
TABLE
member
1 row(s) in 0.0130 seconds

=> ["member"]
hbase(main):003:0> describe 'member'
```

HBase Master Web UI

Master: hadoop-ubuntu... ×

192.168.101.205:16010/master-status   C   Q Search

A_Life ▾ B_Frequent ▾ C_Company ▾ D_Study ▾ E_Japan_Tokyo ▾ Y_Other ▾ Z_Log ▾ Z_SortOut ▾ G Google_CN Google_JP 百度 Most Visited ▾ Getting Started よく見るページ ▾ Firefox を使いこなそう

APACHE HBASE   Home   Table Details   Local Logs   Log Level   Debug Dump   Metrics Dump   HBase Configuration

Master hadoop-ubuntu-01

Region Servers

Base Stats   Memory   Requests   Storefiles   Compactions

ServerName	Start time	Version	Requests Per Second	Num. Regions
hadoop-ubuntu-01,16201,1474524398623	Thu Sep 22 15:06:38 JST 2016	1.2.2	4	3
Total:1			4	3

Backup Masters

ServerName	Port	Start Time
Total:0		

Tables

User Tables   System Tables   Snapshots

1 table(s) in set. [Details]

Namespace	Table Name	Online Regions	Offline Regions	Failed Regions	Split Regions	Other Regions	Description
default	member	1	0	0	0	0	'member', {NAME => 'address'}, {NAME => 'info'}, {NAME => 'member_id'}

Tasks

Show All Monitored Tasks   Show non-RPC Tasks   Show All RPC Handler Tasks   Show Active RPC Calls   Show Client Operations   View as JSON

Start Time	Description	State	Status
Thu Sep 22 15:07:21 JST 2016	Doing distributed log split in [hdfs://hadoop-ubuntu-01:9000/hbase/WALs/hadoop-ubuntu-01,16201,1474523754437-splitting] for serverName=[hadoop-ubuntu-01,16201,1474523754437]	COMPLETE (since 4sec ago)	finished splitting (more than or equal to) 0 bytes in 0 log files in [hdfs://hadoop-ubuntu-01:9000/hbase/WALs/hadoop-ubuntu-01,16201,1474523754437-splitting] in 2ms (since 4sec ago)