

## Hadoop1.x程序升级到Hadoop2.x需要的依赖库

根据官方文档（Apache Hadoop MapReduce - Migrating from Apache Hadoop 1.x to Apache Hadoop 2.x : [http://hadoop.apache.org/docs/r2.2.0/hadoop-mapreduce-client/hadoop-mapreduce-client-core/MapReduce\\_Compatibility\\_Hadoop1\\_Hadoop2.html](http://hadoop.apache.org/docs/r2.2.0/hadoop-mapreduce-client/hadoop-mapreduce-client-core/MapReduce_Compatibility_Hadoop1_Hadoop2.html)）所述，Hadoop 2.x是对Hadoop1.x程序兼容的，由于Hadoop2.x对Hadoop1.x做了重大的结构调整，很多程序依赖库被拆分了，所以以前（Hadoop1.x）的依赖库不再可用（不是说API不可用，而是api存放的包不一样），如果需要在Hadoop2.X上面编译，请用下面的依赖库：

```
<dependencies>
  <dependency>
    <groupId>org.apache.hadoop</groupId>
    <artifactId>hadoop-mapreduce-client-core</artifactId>
    <version>2.2.0</version>
  </dependency>
  <dependency>
    <groupId>org.apache.hadoop</groupId>
    <artifactId>hadoop-common</artifactId>
    <version>2.2.0</version>
  </dependency>
  <dependency>
    <groupId>org.apache.hadoop</groupId>
    <artifactId>hadoop-mapreduce-client-common</artifactId>
    <version>2.2.0</version>
  </dependency>
  <dependency>
    <groupId>org.apache.hadoop</groupId>
    <artifactId>hadoop-mapreduce-client-jobclient</artifactId>
    <version>2.2.0</version>
  </dependency>
</dependencies>
```

记得加上

```
<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-mapreduce-client-common</artifactId>
  <version>2.2.0</version>
</dependency>
<dependency>
  <groupId>org.apache.hadoop</groupId>
```

```
<artifactId>hadoop-mapreduce-client-jobclient</artifactId>  
<version>2.2.0</version>  
</dependency>
```

否则运行程序的时候将会出现一下的异常：

```
Exception in thread "main" java.io.IOException: Cannot initialize Cluster.  
Please check your configuration for mapreduce.framework.name and the  
correspond server addresses.  
at org.apache.hadoop.mapreduce.Cluster.initialize(Cluster.java:120)  
at org.apache.hadoop.mapreduce.Cluster.<init>(Cluster.java:82)  
at org.apache.hadoop.mapreduce.Cluster.<init>(Cluster.java:75)  
at org.apache.hadoop.mapred.JobClient.init(JobClient.java:465)  
at org.apache.hadoop.mapred.JobClient.<init>(JobClient.java:444)  
at org.apache.hadoop.mapred.JobClient.runJob(JobClient.java:826)  
at com.wyp.hadoop.MaxTemperature.main(MaxTemperature.java:41)  
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)  
at sun.reflect.NativeMethodAccessorImpl.invoke  
    (NativeMethodAccessorImpl.java:57)  
at sun.reflect.DelegatingMethodAccessorImpl.invoke  
    (DelegatingMethodAccessorImpl.java:43)  
at java.lang.reflect.Method.invoke(Method.java:606)  
at com.intelij.rt.execution.application.AppMain.main(AppMain.java:120)
```

一个简单的Mapreduce程序请参见[《编写简单的Mapreduce程序并部署在Hadoop2.2.0上运行》](#)

如果你不是用Maven管理依赖的类库，你可以分别在\${HADOOP\_HOME}/share/hadoop/common和\${HADOOP\_HOME}/share/hadoop/mapreduce目录里面以下几个依赖库，分别是hadoop-mapreduce-client-core-2.2.0.jar、hadoop-common-2.2.0.jar、hadoop-mapreduce-client-common-2.2.0.jar、hadoop-mapreduce-client-jobclient-2.2.0.jar和上面的四个依赖正好对应。

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