



链滴

# 【bigdata】3.idea 连接虚拟机 Hadoop 集群

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原文链接: <https://ld246.com/article/1679387336013>

来源网站: [链滴](#)

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# 1.windows配置Hadoop环境

1.Linux环境下解压hadoop-2.6.5的tar包

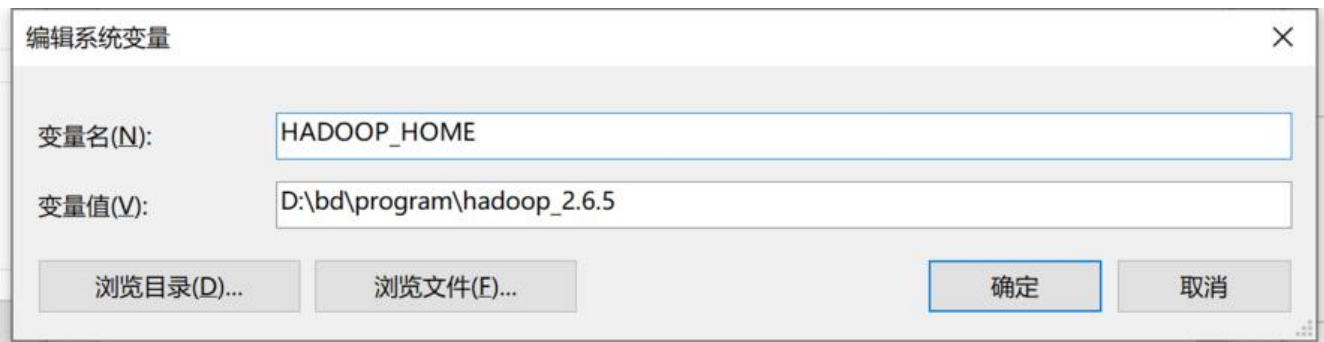
`tar -zxvf hadoop-2.6.5.tar.gz`, 复制解压包到windows的任意目录下

2.下载winutils,copy相应版本bin目录下的winutils.exe和hadoop.dll到解压的Hadoop目录下

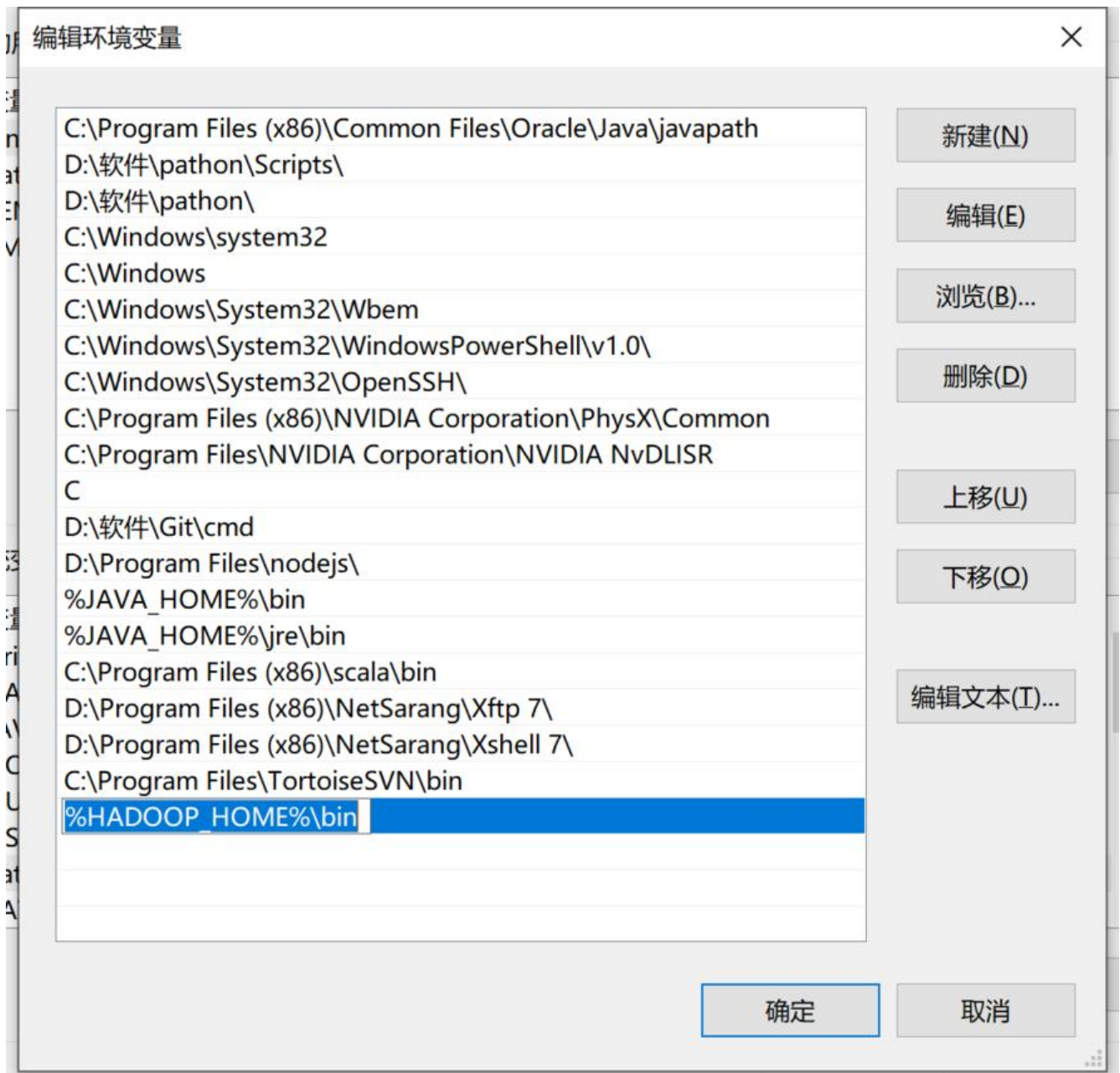
3.复制hadoop.dll到C:\Windows\System32目录下

4.配置环境变量

4.1配置hadoop\_home



4.2Path路径添加hadoop\_home/bin



## 2.maven项目配置Hadoop

### 1.pom文件

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd
maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>demo</groupId>
  <artifactId>demo</artifactId>
  <version>1.0-SNAPSHOT</version>
  <dependencies>
    <dependency>
```

```
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>
    <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-client</artifactId>
  <version>2.6.5</version>
</dependency>
<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-common</artifactId>
  <version>2.6.5</version>
</dependency>

<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-mapreduce-client-common</artifactId>
  <version>2.6.5</version>
</dependency>

<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-mapreduce-client-core</artifactId>
  <version>2.6.5</version>
</dependency>
<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-mapreduce-client-jobclient</artifactId>
  <version>2.6.5</version>
</dependency>
<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-hdfs</artifactId>
  <version>2.6.5</version>
</dependency>

</dependencies>

<repositories>
  <repository>
    <id>apache</id>
    <url>http://maven.apache.org</url>
  </repository>
</repositories>

<build>
  <plugins>
    <plugin>
      <groupId>org.scala-tools</groupId>
      <artifactId>maven-scala-plugin</artifactId>
```

```

    <version>2.15.2</version>
    <executions>
      <execution>
        <goals>
          <goal>compile</goal>
          <goal>testCompile</goal>
        </goals>
      </execution>
    </executions>
  </plugin>

  <plugin>
    <artifactId>maven-compiler-plugin</artifactId>
    <version>3.6.0</version>
    <configuration>
      <source>1.8</source>
      <target>1.8</target>
    </configuration>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-assembly-plugin</artifactId>
    <version>2.3</version>
    <configuration>
      <descriptorRefs>
        <descriptorRef>jar-with-dependencies</descriptorRef>
      </descriptorRefs>
    </configuration>
  </plugin>

  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-surefire-plugin</artifactId>
    <version>2.19</version>
    <configuration>
      <skip>true</skip>
    </configuration>
  </plugin>

</plugins>
<defaultGoal>compile</defaultGoal>
</build>

</project>

```

## 2.配置日志文件log4j.properties

```

log4j.rootLogger=debug,stdout,R
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%5p - %m%n
log4j.appender.R=org.apache.log4j.RollingFileAppender
log4j.appender.R.File=mapreduce_test.log
log4j.appender.R.MaxFileSize=1MB

```

```
log4j.appender.R.MaxBackupIndex=1
log4j.appender.R.layout=org.apache.log4j.PatternLayout
log4j.appender.R.layout.ConversionPattern=%p %t %c - %m%n
log4j.logger.com.codefutures=DEBUG
```

3.拷贝Hadoop集群下的配置文件（core-site.xml、hdfs.site.xml）到maven项目的resource目录下

4.配置HADOOP\_USER\_NAME

```
System.setProperty("HADOOP_USER_NAME", "root");
```