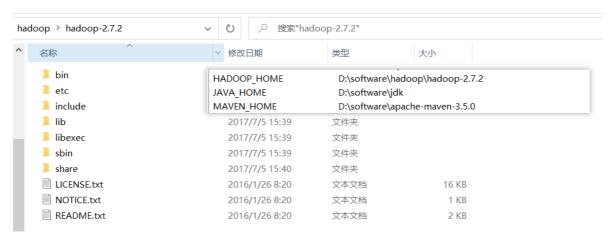
# HDFS客户端操作---开发环境准备

### 步骤一:编译对应HadoopJar包,配置Hadoop变量



## 步骤二: 创建Maven工程, 导入pom依赖

```
<dependencies>
       <dependency>
           <groupId>junit
           <artifactId>junit</artifactId>
           <version>RELEASE</version>
       </dependency>
       <dependency>
           <groupId>org.apache.logging.log4j
           <artifactId>log4j-core</artifactId>
           <version>2.8.2
       </dependency>
       <dependency>
           <groupId>org.apache.hadoop</groupId>
           <artifactId>hadoop-common</artifactId>
           <version>2.7.2</version>
       </dependency>
       <dependency>
           <groupId>org.apache.hadoop</groupId>
           <artifactId>hadoop-client</artifactId>
           <version>2.7.2</version>
       </dependency>
       <dependency>
           <groupId>org.apache.hadoop</groupId>
           <artifactId>hadoop-hdfs</artifactId>
           <version>2.7.2</version>
       </dependency>
</dependencies>
```

### 步骤三: 创建日志文件

在resources目录下创建log4j.properties,输入如下信息

```
log4j.rootLogger=INFO, stdout
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d %p [%c] - %m%n
log4j.appender.logfile=org.apache.log4j.FileAppender
log4j.appender.logfile.File=target/spring.log
log4j.appender.logfile.layout=org.apache.log4j.PatternLayout
log4j.appender.logfile.layout.ConversionPattern=%d %p [%c] - %m%n
```

### 步骤四: 创建HDFSClient类

```
public class HDFSClient{

@Test
public void testMkdirs() throws IOException, InterruptedException,
URISyntaxException{

// 1 获取文件系统
Configuration configuration = new Configuration();

// 2 连接集群
FileSystem fs = FileSystem.get(new URI("hdfs://hadoop102:9000"),
configuration, "zhutiansama");

// 3 创建目录
fs.mkdirs(new Path("/1108/daxian/banzhang"));

// 4 关闭资源
fs.close();
}
}
```

客户端去操作HDFS时,是有一个用户身份的。默认情况下,HDFS客户端API会从JVM中获取一个参数来作为自己的用户身份: -DHADOOP\_USER\_NAME=zhutiansama, zhutiansama为用户名称。至此Hadoop的Win开发环境搭建完成,大家可以通过API去操作Hadoop啦【有问题都可以私聊我WX: focusbigdata,或者关注我的公众号: FocusBigData,注意大小写】