# Create jar with dependency

|  |
| --- |
| <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-shade-plugin</artifactId>  <configuration>  <createDependencyReducedPom>true</createDependencyReducedPom>  </configuration>  <executions>  <execution>  <phase>package</phase>  <goals>  <goal>shade</goal>  </goals>  <configuration>  <transformers>  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ServicesResourceTransformer"* />  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ManifestResourceTransformer"*>  </transformer>  </transformers>  </configuration>  </execution>  </executions>  </plugin> |

Add plugin elements as defined above in pom.xml file

Note: if pluginmanager element is defined over plugin, delete it

Now do Maven install it will create two jars :- with dependency and without dependency

Full pom.xml example

|  |
| --- |
| <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>com.cloudera.test</groupId>  <artifactId>UseHCat</artifactId>  <version>0.0.1-SNAPSHOT</version>  <name>hcatalog-examples</name>  <url>http://maven.apache.org</url>  <properties>  <hadoop.version>2.5.0-cdh5.2.0</hadoop.version>  <hcatalog.version>0.13.1-cdh5.2.0</hcatalog.version>  </properties>  <build>    <plugins>  <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-shade-plugin</artifactId>  <configuration>  <createDependencyReducedPom>true</createDependencyReducedPom>  </configuration>  <executions>  <execution>  <phase>package</phase>  <goals>  <goal>shade</goal>  </goals>  <configuration>  <transformers>  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ServicesResourceTransformer"* />  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ManifestResourceTransformer"*>  </transformer>  </transformers>  </configuration>  </execution>  </executions>  </plugin>  <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-compiler-plugin</artifactId>  <version>2.3.2</version>  <configuration>  <source>1.6</source>  <target>1.6</target>  </configuration>  </plugin>    </plugins>    </build>  <repositories>  <repository>  <id>cloudera-releases</id>  <url>https://repository.cloudera.com/artifactory/cloudera-repos</url>  <releases>  <enabled>true</enabled>  </releases>  <snapshots>  <enabled>false</enabled>  </snapshots>  </repository>  </repositories>  <dependencies>  <dependency>  <groupId>junit</groupId>  <artifactId>junit</artifactId>  <version>4.8.1</version>  <scope>test</scope>  </dependency>  <dependency>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-client</artifactId>  <version>${hadoop.version}</version>  <scope>provided</scope>  </dependency>  <dependency>  <groupId>org.apache.hive.hcatalog</groupId>  <artifactId>hive-hcatalog-core</artifactId>  <version>${hcatalog.version}</version>  <scope>compile</scope>  <exclusions>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-annotations</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-auth</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-archives</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-hdfs</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-app</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-core</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-hs</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-jobclient</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-shuffle</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-client</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-api</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-nodemanager</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-resourcemanager</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-web-proxy</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-tests</artifactId>  </exclusion>  </exclusions>  </dependency>  </dependencies>  </project> |

# Add specific repository in pom

Add repository id and url in pom.xml file

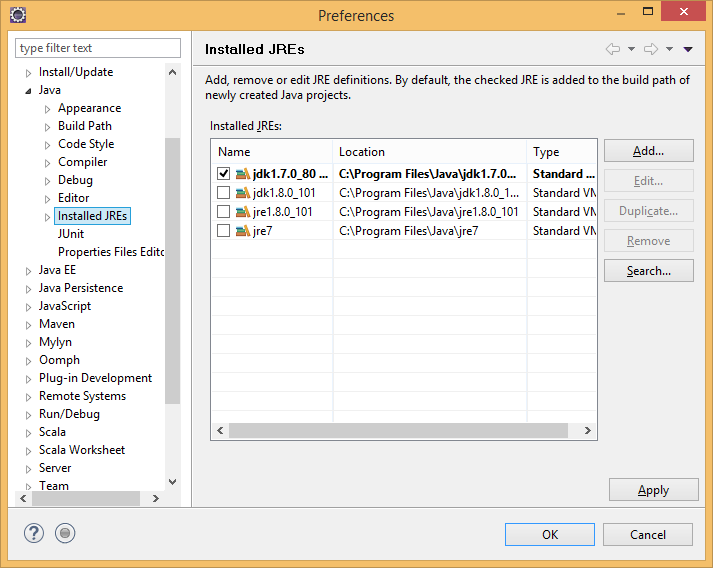
|  |
| --- |
| <project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"*>  <modelVersion>4.0.0</modelVersion>  <groupId>org.cybage.kafka</groupId>  <artifactId>KafkaProject</artifactId>  <version>0.0.1-SNAPSHOT</version>  <repositories>  <repository>  <id>confluent</id>  <url>http://packages.confluent.io/maven/</url>  </repository>  </repositories>  <dependencies>  <!-- <dependency>  <groupId>org.apache.kafka</groupId>  <artifactId>kafka\_2.11</artifactId>  <version>0.10.1.1</version>  </dependency>  <dependency>  <groupId>org.apache.avro</groupId>  <artifactId>avro</artifactId>  <version>1.8.1</version>  </dependency>  <dependency>  <groupId>org.apache.avro</groupId>  <artifactId>avro-tools</artifactId>  <version>1.8.1</version>  </dependency>  -->  <dependency>  <groupId>io.confluent</groupId>  <artifactId>kafka-avro-serializer</artifactId>  <version>3.1.2</version>  </dependency>  <dependency>  <groupId>org.apache.kafka</groupId>  <artifactId>kafka\_2.11</artifactId>  <version>0.10.1.1</version>  </dependency>  <dependency>  <groupId>org.apache.avro</groupId>  <artifactId>avro</artifactId>  <version>1.8.1</version>  </dependency>  </dependencies>  <build>  <plugins>  <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-shade-plugin</artifactId>  <configuration>  <createDependencyReducedPom>true</createDependencyReducedPom>  </configuration>  <executions>  <execution>  <phase>package</phase>  <goals>  <goal>shade</goal>  </goals>  <configuration>  <transformers>  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ServicesResourceTransformer"* />  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ManifestResourceTransformer"*>  <mainClass>org.cybage.esplus.ingestion.topology.Extract</mainClass>  </transformer>  </transformers>  </configuration>  </execution>  </executions>  </plugin>  </plugins>  </build>  </project> |

# Unable to locate the javac compiler

|  |
| --- |
| [ERROR] Unable to locate the Javac Compiler in:  [ERROR] C:\Program Files\Java\jre7\..\lib\tools.jar |

If encountered issue like mentioned above

Set default jre to jdk under windows >> preference



# Copy dependencies jars in separate folder

Add below plugin in pom.xml this will copy dependencies jar under jars folder

|  |
| --- |
| <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-dependency-plugin</artifactId>  <version>2.4</version>  <executions>  <execution>  <id>copy-dependencies</id>  <phase>package</phase>  <goals>  <goal>copy-dependencies</goal>  </goals>  <configuration>  <outputDirectory>${project.build.directory}/jars</outputDirectory>  <overWriteReleases>false</overWriteReleases>  <overWriteSnapshots>false</overWriteSnapshots>  <overWriteIfNewer>true</overWriteIfNewer>  </configuration>  </execution>  </executions>  </plugin> |

Full pom.xml

|  |
| --- |
| <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>com.cloudera.test</groupId>  <artifactId>UseHCat</artifactId>  <version>0.0.1-SNAPSHOT</version>  <name>hcatalog-examples</name>  <url>http://maven.apache.org</url>  <properties>  <hadoop.version>2.5.0-cdh5.2.0</hadoop.version>  <hcatalog.version>0.13.1-cdh5.2.0</hcatalog.version>  </properties>  <build>    <plugins>  <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-shade-plugin</artifactId>  <configuration>  <createDependencyReducedPom>true</createDependencyReducedPom>  </configuration>  <executions>  <execution>  <phase>package</phase>  <goals>  <goal>shade</goal>  </goals>  <configuration>  <transformers>  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ServicesResourceTransformer"* />  <transformer  implementation=*"org.apache.maven.plugins.shade.resource.ManifestResourceTransformer"*>  </transformer>  </transformers>  </configuration>  </execution>  </executions>  </plugin>  <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-compiler-plugin</artifactId>  <version>2.3.2</version>  <configuration>  <source>1.6</source>  <target>1.6</target>  </configuration>  </plugin>  <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-dependency-plugin</artifactId>  <version>2.4</version>  <executions>  <execution>  <id>copy-dependencies</id>  <phase>package</phase>  <goals>  <goal>copy-dependencies</goal>  </goals>  <configuration>  <outputDirectory>${project.build.directory}/jars</outputDirectory>  <overWriteReleases>false</overWriteReleases>  <overWriteSnapshots>false</overWriteSnapshots>  <overWriteIfNewer>true</overWriteIfNewer>  </configuration>  </execution>  </executions>  </plugin>  </plugins>    </build>  <repositories>  <repository>  <id>cloudera-releases</id>  <url>https://repository.cloudera.com/artifactory/cloudera-repos</url>  <releases>  <enabled>true</enabled>  </releases>  <snapshots>  <enabled>false</enabled>  </snapshots>  </repository>  </repositories>  <dependencies>  <dependency>  <groupId>junit</groupId>  <artifactId>junit</artifactId>  <version>4.8.1</version>  <scope>test</scope>  </dependency>  <dependency>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-client</artifactId>  <version>${hadoop.version}</version>  <scope>provided</scope>  </dependency>  <dependency>  <groupId>org.apache.hive.hcatalog</groupId>  <artifactId>hive-hcatalog-core</artifactId>  <version>${hcatalog.version}</version>  <scope>compile</scope>  <exclusions>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-annotations</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-auth</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-archives</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-hdfs</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-app</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-core</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-hs</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-jobclient</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-mapreduce-client-shuffle</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-client</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-api</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-common</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-nodemanager</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-resourcemanager</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-web-proxy</artifactId>  </exclusion>  <exclusion>  <groupId>org.apache.hadoop</groupId>  <artifactId>hadoop-yarn-server-tests</artifactId>  </exclusion>  </exclusions>  </dependency>  </dependencies>  </project> |