



MAVEN2 TOOL

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Plugin and archetype for Maven2

Brillien provides its own plugin and archetype to help development. Using these, one can create and manage a project that is compatible with Brillien. This includes creating the project structure, interpreting and building the source code, and publishing it into an available Brillien distribution.

Installing the archetype and the plugin

Download the necessary files, which are available in Brillien's SVN repository (*source/maven* folder), or by clicking on the Maven2 tools link on the Brillien website. After the download, the *brillien-archetype* and the *brillien-maven-plugin* folders contain the Maven2 tools which have to be installed. The following command in both of these folders have to be executed:

```
mvn install
```

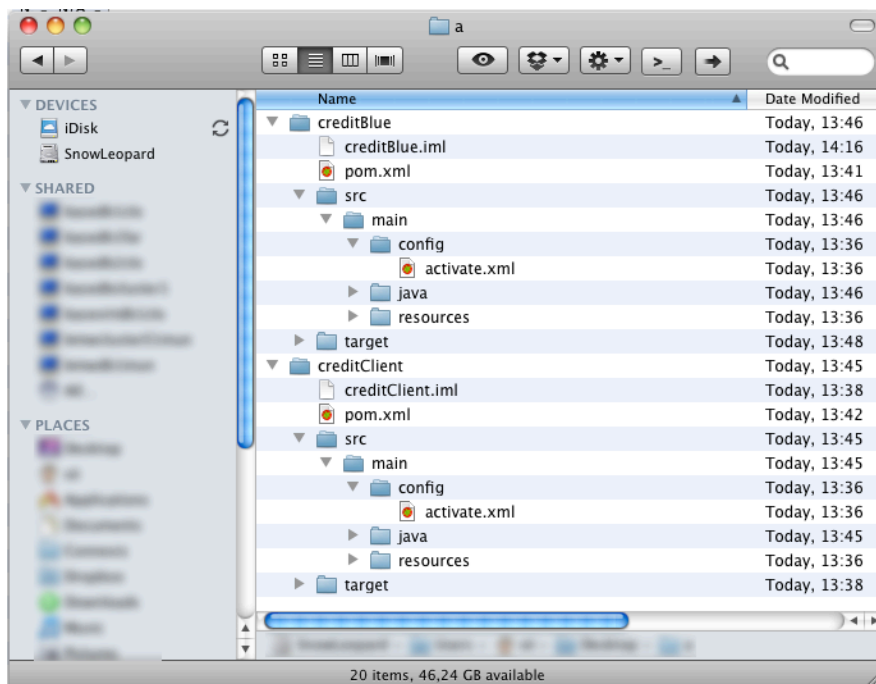
After the successful installation, you can start using these tools.

Starting a new project

In case of a Brillien-based development, the Maven2 *archetype* creates the appropriate project structure and creates the necessary *pom.xml*. You can define a new Brillien project with the following operation:

```
mvn archetype:create
-DgroupId=[your project's group id]
-DartifactId=[your project's artifact id]
-DarchetypeGroupId=com.vii.brillien
-DarchetypeArtifactId=brillien-archetype
-DarchetypeVersion=1.0.01
```

You have to specify the *groupId* and the *artifactId*. After the execution, you'll get a folder structure just like this (source: user's manual of Brillien, Tutorial 0):



The development of the project can be started with any IDE which supports Maven2. The *pom.xml* file of the project contains the following:

```
<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/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme.product</groupId>
  <artifactId>product</artifactId>
  <version>1.0-SNAPSHOT</version>
  <dependencies>
    <dependency>
      <groupId>com.vii.brillien</groupId>
      <artifactId>core</artifactId>
      <scope>provided</scope>
      <version>10.01</version>
    </dependency>
  </dependencies>
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-dependency-plugin</artifactId>
        <executions>
          <execution>
            <id>copy-dependencies</id>
            <phase>package</phase>
            <goals>
              <goal>copy-dependencies</goal>
            </goals>
            <configuration>
              <outputDirectory>${project.build.directory}/lib</outputDirectory>
              <overwriteReleases>>false</overwriteReleases>
              <overwriteSnapshots>>false</overwriteSnapshots>
              <overwriteIfNewer>>true</overwriteIfNewer>
              <excludeScope>provided</excludeScope>
            </configuration>
          </execution>
        </executions>
      </plugin>
      <plugin>
        <groupId>com.vii.brillien</groupId>
        <artifactId>brillien-maven-plugin</artifactId>
        <version>10.01</version>
        <executions>
          <execution>
            <id>brillienbuild</id>
            <phase>package</phase>
            <goals>
              <goal>brillienbuild</goal>
            </goals>
          <goal>deploy</goal>
          </goals>
          <configuration>
            <brillienHome>path to Brillien home directory</brillienHome>
          </configuration>
        </executions>
      </plugin>
      <plugin>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>2.0.2</version>
      </plugin>
    </plugins>
  </build>
</project>
```

```
        <configuration>
            <source>1.5</source>
            <target>1.5</target>
        </configuration>
    </plugin>
</plugins>
</build>
</project>
```

The plugin defines two lifetime tasks:

```
brillien:brillienbuild : csomagolás
brillien:deploy       : publikáció
```

After compiling the source code and executing the *brillien:brillienbuild* command, the archive file Brillien module will be created and copied into the *src/main/target/brilliendist* folder, from where the *brillien:deploy* command will copy it into the activator folder of the local Brillien distribution. For this, the *<brillienHome>* tag in the *pom.xml* file must be given a value.

The *mvn package* command will execute every necessary operation on the source code of our project, from compiling to publishing.

Building the Brillien

Download the source of Brillien from the SVN repository (*brillien.dev.java.net/son/brillien*), go to the *source/src* folder, then execute the following command:

```
mvn install
```

During the execution, the Maven compiles the source codes and publishes the created *jar* files in the local Maven2 repository. If a whole binary distribution is needed, execute the following command:

```
mvn package assembly:assembly
```

After executing this, the *Brillien-[version_number]-distribution.zip* file will be created in the *src/target* folder. The binary distribution on the Brillien website is created like this, too. After extracting this, executing the appropriate command file, the server can be started.