

Mecrowave Maven

## Coordinates:

```
<plugin>
  <groupId>org.apache.meecrowave</groupId>
  <artifactId>meecrowave-maven-plugin</artifactId>
  <version>${meecrowave.version}</version>
</plugin>
```



most of the configuration is inherited from meecrowave-core.

Here are the available options (see core configuration for the details):

Name	Default	Property
antiResourceLocking	false	\${meecrowave.antiResourceLocking}
cdiConversation	false	\${meecrowave.cdiConversation}
clientAuth	-	\${meecrowave.clientAuth}
conf	-	\${meecrowave.conf}
context		\${meecrowave.context}
defaultSSLHostConfigName	-	\${meecrowave.default-ssl-hostconfig-name}
deleteBaseOnStartup	true	\${meecrowave.deleteBaseOnStartup}
dir	-	\${meecrowave.dir}
forceLog4j2Shutdown	true	\${meecrowave.force-log4j2-shutdown}
host	localhost	\${meecrowave.host}
http2	-	\${meecrowave.http2}
httpPort	8080	\${meecrowave.http}
httpsPort	8443	\${meecrowave.https}
initializeClientBus	true	\${meecrowave.initialiaze-client-bus}
injectServletContainerInitializer	true	\${meecrowave.servlet-container-initializer-injections}
jaxrsAutoActivateBeanValidation	true	\${meecrowave.jaxrs-beanvalidation}
jaxrsDefaultProviders	-	\${meecrowave.jaxrs-default-providers}
jaxrsLogProviders	false	\${meecrowave.jaxrsLogProviders}
jaxrsMapping	/*	\${meecrowave.jaxrsMapping}

Name	Default	Property
jaxrsProviderSetup	true	<code>#{meecrowave.jaxrs-provider-setup}</code>
jaxwsSupportIfAvailable	true	<code>#{meecrowave.jaxws-support}</code>
jsonbBinaryStrategy	-	<code>#{meecrowave.jsonb-binary-strategy}</code>
jsonbEncoding	UTF-8	<code>#{meecrowave.jsonb-encoding}</code>
jsonbIJson	false	<code>#{meecrowave.jsonb-ijson}</code>
jsonbNamingStrategy	-	<code>#{meecrowave.jsonb-naming-strategy}</code>
jsonbNulls	false	<code>#{meecrowave.jsonb-nulls}</code>
jsonbOrderStrategy	-	<code>#{meecrowave.jsonb-order-strategy}</code>
jsonbPrettify	false	<code>#{meecrowave.jsonb-prettify}</code>
jsonpBufferStrategy	QUEUE	<code>#{meecrowave.jsonp-buffer-strategy}</code>
jsonpMaxReadBufferLen	65536	<code>#{meecrowave.jsonp-max-read-buffer-size}</code>
jsonpMaxStringLength	10485760	<code>#{meecrowave.jsonp-max-string-length}</code>
jsonpMaxWriteBufferLen	65536	<code>#{meecrowave.jsonp-max-write-buffer-size}</code>
jsonpPrettify	false	<code>#{meecrowave.jsonp-prettify}</code>
jsonpSupportsComment	false	<code>#{meecrowave.jsonp-comments}</code>
keepServerXmlAsThis	-	<code>#{meecrowave.keepServerXmlAsThis}</code>
keyAlias	-	<code>#{meecrowave.keyAlias}</code>
keystoreFile	-	<code>#{meecrowave.keystoreFile}</code>
keystorePass	-	<code>#{meecrowave.keystorePass}</code>
keystoreType	JKS	<code>#{meecrowave.keystoreType}</code>
loggingGlobalSetup	true	<code>#{meecrowave.logging-global-setup}</code>
meecrowaveProperties	meecrowave.properties	<code>#{meecrowave.meecrowave-properties}</code>
modules	<code>#{project.build.outputDirectory}</code>	
project	<code>#{project}</code>	
quickSession	true	<code>#{meecrowave.quickSession}</code>
reloadGoals	-	<code>#{meecrowave.reload-goals}</code>

Name	Default	Property
scanningExcludes	-	\${meecrowave.scanning-exclude}
scanningIncludes	-	\${meecrowave.scanning-include}
scanningPackageExcludes	-	\${meecrowave.scanning-package-exclude}
scanningPackageIncludes	-	\${meecrowave.scanning-package-include}
serverXml	-	\${meecrowave.serverXml}
session	\${session}	
sharedLibraries	-	\${meecrowave.shared-libraries}
skip	-	\${meecrowave.skip}
skipHttp	-	\${meecrowave.skipHttp}
ssl	-	\${meecrowave.ssl}
sslProtocol	-	\${meecrowave.sslProtocol}
stopPort	8005	\${meecrowave.stop}
tempDir	-	\${meecrowave.tempDir}
tomcatAccessLogPattern	-	\${meecrowave.tomcatAccessLogPattern}
tomcatAutoSetup	true	\${meecrowave.tomcatAutoSetup}
tomcatFilter	-	\${meecrowave.tomcatFilter}
tomcatJspDevelopment	false	\${meecrowave.tomcatJspDevelopment}
tomcatNoJmx	true	\${meecrowave.tomcatNoJmx}
tomcatScanning	true	\${meecrowave.tomcatScanning}
tomcatWrapLoader	false	\${meecrowave.tomcatWrapLoader}
useClasspathDeployment	true	\${meecrowave.force-classpath-deployment}
useLog4j2JulLogManager	true	\${meecrowave.log4j2-jul-bridge}
useShutdownHook	true	\${meecrowave.shutdown-hook}
useTomcatDefaults	true	\${meecrowave.useTomcatDefaults}
watcherBouncing	0	\${meecrowave.watcher-bouncing}

Name	Default	Property
webResourceCached	true	<code>\${meecrowave.webResourceCached}</code>
webSessionCookieConfig	-	<code>\${meecrowave.session-cookie-config}</code>
webSessionTimeout	-	<code>\${meecrowave.session-timeout}</code>
webXml	-	<code>\${meecrowave.webXml}</code>
webapp	<code>\${project.basedir}/src/main/webapp</code>	<code>\${meecrowave.webapp}</code>

## Run

`mvn meecrowave:run` enables you to start a server configured in your `pom.xml`. Once started, you have a few commands you can use to interact with the server:

- `quit/exit`: shutdown properly the server.
- `reload` (since 1.2.9): optionally relaunch a maven compilation - see configuration - and reload the web context.

## Bundling

```
mvn meecrowave:bundle
```

This maven goal will create a zip/tar.gz (configurable) ready to launch your application.

The layout if the following one:

```

.
├── bin
│   └── meecrowave.sh
├── conf
│   ├── log4j2.xml
│   └── meecrowave.properties
├── lib
│   └── *.jar
├── logs
│   └── meecrowave.logls 1
└── temp

```

conf folder supports out of the box these files (but you can add your own if needed):

- `log4j2.xml`
- `server.xml`

- meecrowave.properties

You can access the root folder of the distribution reading the system property `meecrowave.base`.

`meecrowave.properties` supports all configuration options of the cli (just remove the `--`): <http://openwebbeans.apache.org/meecrowave/meecrowave-core/cli.html>.

Note: you can also split like Tomcat `MEECROWAVE_BASE` and `MEECROWAVE_HOME` if you want to extract meecrowave stack in a separate folder (from the application) to be able to update it independently.

## Shading

Plain Maven shade plugin enables you to build fatjar with Maven.

Points to take care are:

1. merge CXF resources
2. merge Log4j2 resources
3. merge OpenWebBeans resources
4. merge SPI files (META-INF/services)
5. ensure signatures are still valid in the aggregated jar

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-shade-plugin</artifactId>
  <version>3.2.4</version>
  <executions>
    <execution>
      <id>bundle</id>
      <phase>package</phase>
      <goals>
        <goal>shade</goal>
      </goals>
      <configuration>
        <shadedClassifierName>fat</shadedClassifierName>
        <shadedArtifactAttached>true</shadedArtifactAttached>
        <dependencyReducedPomLocation>${project.build.directory}/reduced-pom-
bundle.xml</dependencyReducedPomLocation>
        <transformers>
          <transformer implementation=
"org.apache.maven.plugins.shade.resource.ManifestResourceTransformer">
            <mainClass>org.apache.meecrowave.runner.Cli</mainClass>
          </transformer>
          <transformer implementation=
"org.apache.maven.plugins.shade.resource.AppendingTransformer">
            <resource>META-INF/cxf/bus-extensions.txt</resource>
          </transformer>
        </transformers>
      </configuration>
    </execution>
  </executions>
</plugin>
```

```

    <transformer implementation=
"org.apache.maven.plugins.shade.resource.AppendingTransformer">
        <resource>log4j2.component.properties</resource>
    </transformer>
    <transformer implementation=
"com.github.edwgiz.maven_shade_plugin.log4j2_cache_transformer.PluginsCacheFileTransfo
rmer" />
        <transformer implementation=
"org.apache.maven.plugins.shade.resource.properties.OpenWebBeansPropertiesTransformer"
/>
            <transformer implementation=
"org.apache.maven.plugins.shade.resource.ServicesResourceTransformer"/>
        </transformers>
    <filters>
        <filter>
            <artifact>*:*</artifact>
            <excludes>
                <exclude>META-INF/*.SF</exclude>
                <exclude>META-INF/*.DSA</exclude>
                <exclude>META-INF/*.RSA</exclude>
                <exclude>META-INF/LICENSE.txt</exclude>
                <exclude>META-INF/LICENSE</exclude>
                <exclude>META-INF/NOTICE.txt</exclude>
                <exclude>META-INF/NOTICE</exclude>
            </excludes>
        </filter>
    </filters>
</configuration>
</execution>
</executions>
<dependencies>
    <dependency>
        <groupId>com.github.edwgiz</groupId>
        <artifactId>maven-shade-plugin.log4j2-cachefile-transformer</artifactId>
        <version>2.13.3</version>
    </dependency>
</dependencies>
</plugin>

```