

TomEE and Fat jars

Shading the container and the application has some challenges like merging correctly resources (**META-INF/services/** typically).

Here is a maven shade plugin configuration working for most cases:

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-shade-plugin</artifactId>
  <version>2.3</version>
  <executions>
    <execution>
      <phase>package</phase>
      <goals>
        <goal>shade</goal>
      </goals>
      <configuration>
        <dependencyReducedPomLocation>${project.build.directory}/reduced-
pom.xml</dependencyReducedPomLocation>
        <transformers>
          <transformer implementation=
"org.apache.maven.plugins.shade.resource.ManifestResourceTransformer">
            <mainClass>org.apache.tomee.embedded.Main</mainClass>
          </transformer>
          <transformer implementation=
"org.apache.maven.plugins.shade.resource.AppendingTransformer">
            <resource>META-INF/cxf/bus-extensions.txt</resource>
          </transformer>
          <transformer implementation=
"org.apache.maven.plugins.shade.resource.AppendingTransformer">
            <resource>META-INF/openwebbeans/openwebbeans.properties</resource>
          </transformer>
        </transformers>
        <filters>
          <filter> <!-- we don't want JSF to be activated -->
            <artifact>*:*</artifact>
            <excludes>
              <exclude>META-INF/faces-config.xml</exclude>
            </excludes>
          </filter>
        </filters>
      </configuration>
    </execution>
  </executions>
</plugin>
```

**NOTE** | see [TomEE Embedded](#) page for more information about tomee embedded options.

**IMPORTANT** | this shade uses TomEE Embedded but you can do the same with an [Application Composer](#) application.

**TIP**

if you have `META-INF/web-fragment.xml` in your application you will need to merge them in a single one in the shade. Note that tomcat provides one which can be skipped in this operation since it is there only as a marker for jasper detection.