

Deployment

The plugin provides various methods of deployment to Tomcat:

- Deploying a WAR file
- Deploying an exploded WAR directory, with an optional `context.xml` file
- Deploying an in-place WAR directory, with an optional `context.xml` file
- Deploying a `context.xml` file
- Running a WAR project

These are described in more detail below.

Deploying a WAR file

The simplest way to deploy a WAR project to Tomcat is to type:

```
mvn tomcat:deploy
```

This goal will assemble and deploy the WAR file to Tomcat's manager using HTTP PUT.

Using a different WAR file location

To specify a different WAR file location, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
  <build>
    ...
    <plugins>
      ...
      <plugin>
        <groupId>org.apache.tomcat.maven</groupId>
        <artifactId>tomcat6-maven-plugin</artifactId>
        <version>2.3-SNAPSHOT</version>
        <configuration>
          <warFile>path/to/my/warFile.war</warFile>
        </configuration>
      </plugin>
      ...
    </plugins>
    ...
  </build>
  ...
</project>
```

The default location is `${project.build.directory}/${project.build.finalName}.war`.

Using a `context.xml` file

If you need to specify a `context.xml` file when deploying a WAR file to Tomcat, then it must be included within the WAR. The simplest way to achieve this is by adding it to your webapp resources:

```
src
├─ main
│   └─ webapp
│       ├── META-INF
│       └─ context.xml
```

Deploying an exploded WAR directory

To avoid building a WAR file upon deployment, a WAR directory can instead be deployed to Tomcat by typing:

```
mvn war:exploded tomcat:exploded
```

Using a different WAR directory location

To specify a different WAR directory location, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
<build>
  ...
  <plugins>
    ...
    <plugin>
      <groupId>org.apache.tomcat.maven</groupId>
      <artifactId>tomcat6-maven-plugin</artifactId>
      <version>2.3-SNAPSHOT</version>
      <configuration>
        <warDirectory>path/to/my/warDir</warDirectory>
      </configuration>
    </plugin>
    ...
  </plugins>
  ...
</build>
  ...
</project>
```

The default location is `${project.build.directory}/${project.build.finalName}` .

Using a `context.xml` file

To supply a `context.xml` when deploying a WAR directory, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
<build>
  ...
  <plugins>
    ...
    <plugin>
      <groupId>org.apache.tomcat.maven</groupId>
      <artifactId>tomcat6-maven-plugin</artifactId>
      <version>2.3-SNAPSHOT</version>
      <configuration>
        <mode>both</mode>
      </configuration>
    </plugin>
    ...
  </plugins>
  ...
</build>
  ...
</project>
```

The default `context.xml` file use is located at `src/main/webapp/META-INF/context.xml` .

Using a different `context.xml` file location

To specify a different `context.xml` file location, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
<build>
  ...
  <plugins>
    ...
    <plugin>
      <groupId>org.apache.tomcat.maven</groupId>
      <artifactId>tomcat6-maven-plugin</artifactId>
      <version>2.3-SNAPSHOT</version>
      <configuration>
        <contextFile>path/to/my/contextFile.xml</contextFile>
      </configuration>
    </plugin>
    ...
  </plugins>
  ...
</build>
  ...
</project>
```

The default location is `${project.build.directory}/${project.build.finalName}/META-INF/context.xml` .

Deploying an in-place WAR directory

To avoid copying resources to the build directory, the webapp source directory can be deployed to Tomcat by typing:

```
mvn war:inplace tomcat:inplace
```

Using a different WAR directory location

To specify a different WAR directory location, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
  <build>
    ...
    <plugins>
      ...
      <plugin>
        <groupId>org.apache.tomcat.maven</groupId>
        <artifactId>tomcat6-maven-plugin</artifactId>
        <version>2.3-SNAPSHOT</version>
        <configuration>
          <warSourceDirectory>path/to/my/warSourceDir</warSourceDirectory>
        </configuration>
      </plugin>
      ...
    </plugins>
    ...
  </build>
  ...
</project>
```

The default location is `${basedir}/src/main/webapp`.

Using a `context.xml` file

To supply a `context.xml` when deploying a WAR directory to Tomcat, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.tomcat.maven</groupId>
        <artifactId>tomcat6-maven-plugin</artifactId>
        <version>2.3-SNAPSHOT</version>
        <configuration>
          <mode>both</mode>
        </configuration>
      </plugin>
    </plugins>
  </build>
  ...
</project>
```

The default `context.xml` file used is located at `src/main/webapp/META-INF/context.xml`.

Using a different `context.xml` file location

To specify a different `context.xml` file location, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
  <build>
    ...
    <plugins>
      ...
      <plugin>
        <groupId>org.apache.tomcat.maven</groupId>
        <artifactId>tomcat6-maven-plugin</artifactId>
        <version>2.3-SNAPSHOT</version>
        <configuration>
          <contextFile>path/to/my/contextFile.xml</contextFile>
        </configuration>
      </plugin>
      ...
    </plugins>
    ...
  </build>
  ...
</project>
```

The default location is `${project.build.directory}/${project.build.finalName}/META-INF/context.xml`.

Deploying a context.xml file

To simply deploy just a `context.xml` file to Tomcat:

1. Add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
  <build>
    ...
    <plugins>
      ...
      <plugin>
        <groupId>org.apache.tomcat.maven</groupId>
        <artifactId>tomcat6-maven-plugin</artifactId>
        <version>2.3-SNAPSHOT</version>
        <configuration>
          <mode>context</mode>
        </configuration>
      </plugin>
      ...
    </plugins>
    ...
  </build>
  ...
</project>
```

2. Deploy the `context.xml` file by typing:

```
mvn tomcat:deploy
```

The default `context.xml` file used is located at `src/main/webapp/META-INF/context.xml` .

Using a different `context.xml` file location

To specify a different `context.xml` file location, add a plugin configuration block to your `pom.xml` as follows:

```
<project>
  ...
  <build>
    ...
    <plugins>
      ...
      <plugin>
        <groupId>org.apache.tomcat.maven</groupId>
        <artifactId>tomcat6-maven-plugin</artifactId>
        <version>2.3-SNAPSHOT</version>
        <configuration>
          <contextFile>path/to/my/contextFile.xml</contextFile>
        </configuration>
      </plugin>
      ...
    </plugins>
    ...
  </build>
  ...
</project>
```

The default location is `${project.build.directory}/${project.build.finalName}/META-INF/context.xml` .

Running a WAR project

A WAR project can be run under an embedded Tomcat server by typing:

```
mvn tomcat:run
```

To stop the embedded server, press `CTRL+C` .

