

Java Thinking

Thursday, 2 May 2013

Deploying to Tomcat 7 with Maven

It's sometimes nice to be able to update a development Tomcat 7 server from Maven - this makes it simple to hook automatic deployment into a CI server or just update the dev server as a developer.

First, the Tomcat manager application needs to be installed (check Tomcat's webapps directory for the manager application) and configured with the appropriate user credentials:

Now, I needed to define the server admin credentials in my maven settings (~/.m2/settings.xml):

Then, I updated the POM to configure the maven tomcat plugin:

```
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.
   <build>
4
          <plugins>
                 <groupId>org.apache.tomcat.maven</groupId>
8
                 <artifactId>tomcat7-maven-plugin</artifactId>
                 <version>2.1</version>
10
                 <configuration>
                     <!-- Tomcat 7 has a different manager path - text - than
                     <url>http://REMOTE_SERVER_NAME_GOES_HERE:8080/manager/te
                     <!-- Refer to the server settings in your ~/.m2/settings
                     <server>dev-tomcat</server>
                     <path>/app1</path>
                 </configuration>
              </plugin>
          </plugins>
  </build>
gistfile1.xml hosted with ♥ by GitHub
```

Now, using 'mvn tomcat7:redeploy' lets me update the dev server.

Note however, on Windows you may have some problems with undeploying the application - after

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I've been writing JUnit Parameterized tests (a nice intro here - also see Theories) to do some data driven API testing. Now, when intr...

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an undeploy command, some jars may be left over in the webapps/appname directory. When you try to redeploy your app you'll see an error containing "cannot invoke tomcat manager fail - unable to delete...".

To work around this, you can change the TOMCAT_HOME/conf/context.xml to include the 'antiJARLocking' attribute like so:

<Context antiJARLocking="true">

The documentation points out though that this will impact start up times of applications.

In my case, I noticed problems when doing a redeploy to Tomcat - most likely unrelated to Maven and/or the maven tomcat plugin and more to do with PermGen (I saw perm gen OutOfMemory: PermGen space errors in the tomcat7-stderr logs, and the Tomcat process was consuming 100% cpu). Adding the following switches to the Tomcat JVM settings seems to have fixed it for now:

-XX:+CMSClassUnloadingEnabled -XX:+CMSPermGenSweepingEnabled -XX:PermSize=64m -XX:MaxPermSize=128m -Xmx992M

(In this instance, I'm running Tomcat 7 as a Windows service on JDK7 with a 50MB WAR file).

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