

# Pluto Maven2Tips

## Testing with a clean repository

It is important to test source builds using a clean repository. No need to `rm -rf ~/.m2/repository`. Simply supply `-Dmaven.repo.local=/path/to/temp/dir` as a Maven command line option. For example:

- `mvn -Dmaven.repo.local=/tmp/clean-m2-repo install`
- `mvn -Dmaven.repo.local=/tmp/clean-m2-repo pluto:install -DinstallDir=/path/to/tomcat`

You need to remember to supply `-Dmaven.repo.local=/tmp/clean-m2-repo` on each invocation of the `mvn` command.

## Building releases for local testing

If you are wanting to tag a release, see [Pluto/CuttingRelease]. Only committers will be able to successfully cut a release.

Anyone, however, can build releases for local testing. First checkout a copy of the code from SVN, then:

1. From the base source directory run: `mvn package`
2. `cd assembly`
3. `mvn -Passembly,build-assemblies assembly:assembly`

Distributions will be in `target/assembly/out/`

```
esm:~/src/pluto-1.1.x$ ls -l assembly/target/assembly/out/
total 102976
-rw-r--r--  1 esm  esm   3960558 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-bin.tar.bz2
-rw-r--r--  1 esm  esm   3948181 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-bin.tar.gz
-rw-r--r--  1 esm  esm   3949669 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-bin.zip
-rw-r--r--  1 esm  esm  12130891 Jul 14 15:13 pluto-1.1.4-SNAPSHOT-bundle.tar.bz2
-rw-r--r--  1 esm  esm  12445076 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-bundle.tar.gz
-rw-r--r--  1 esm  esm  13255012 Jul 14 15:13 pluto-1.1.4-SNAPSHOT-bundle.zip
-rw-r--r--  1 esm  esm   220041 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-container-bin.tar.bz2
-rw-r--r--  1 esm  esm   222348 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-container-bin.tar.gz
-rw-r--r--  1 esm  esm   222580 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-container-bin.zip
-rw-r--r--  1 esm  esm  2347132 Jul 14 15:12 pluto-1.1.4-SNAPSHOT-src.zip
esm:~/src/pluto-1.1.x$
```

## Using the staging Maven 2 repository

When binaries are released for a vote, you might want to access the binaries that are put up on the [Pluto Maven 2 staging repository](#). I've added the following profile to `~/m2/settings.xml`

```

<profile>
  <id>pluto-test</id>
  <repositories>
    <repository>
      <releases><enabled>true</enabled></releases>
      <snapshots><enabled>false</enabled></snapshots>
      <id>pluto-staging</id>
      <name>Apache Pluto Staging Repository</name>
      <url>
        http://people.apache.org/builds/portals-pluto/m2-staging-repository
      </url>
    </repository>
  </repositories>
  <pluginRepositories>
    <pluginRepository>
      <releases><enabled>true</enabled></releases>
      <snapshots><enabled>false</enabled></snapshots>
      <id>pluto-staging</id>
      <name>Apache Pluto Staging Repository</name>
      <url>
        http://people.apache.org/builds/portals-pluto/m2-staging-repository
      </url>
    </pluginRepository>
  </pluginRepositories>
</profile>

```

When it is time to test the build, I can activate the profile by calling `mvn -Ppluto-test`, and use the actual binaries being voted on for release.

Furthermore, to test a build with a clean repo, you can supply `-Dmaven.repo.local=/path/to/temp/dir` as a Maven command line option. Maven will use `/path/to/temp/dir` as its repository.

## Deploying Snapshots (for committers)

To deploy SNAPSHOTs to the Maven 2 repository

1. You need some secret sauce in your `~/.m2/settings.xml`:

```

<settings>
  <servers>
    ...
    <server>
      <id>apache.snapshots</id>
      <username>jsmith</username>
      <privateKey>/path/to/jsmiths/private/key</privateKey>
      <passphrase/>
    </server>
    ...
  </servers>
</settings>

```

The private key is the same private key that you would use when sshing into `people.apache.org`. You can test public key auth by setting up PuTTY or OpenSSH (see <http://www.apache.org/dev/user-ssh-windows.html>).

2. Run `mvn deploy`  
You should see output like

```

esm:~/src/pluto$ mvn deploy
[INFO] Scanning for projects...
[INFO] Reactor build order:
[INFO]     Apache Pluto
[INFO]     Pluto Descriptor Service API
[INFO]     Pluto Descriptor Service Implementation
[INFO]     Pluto Portlet Container
[INFO]     Pluto Portlet Tag Library
[INFO]     Pluto Portal Driver
[INFO]     Pluto Portal Driver Implementation Classes
[INFO]     Pluto Portal
[INFO]     Pluto Utilities
[INFO]     Maven Pluto Installer Plugin
[INFO]     Pluto Testsuite Portlet
[INFO]     Pluto Ant Tasks
[INFO]     Pluto Website Documentation
[INFO]     Pluto Website Skin
[INFO] -----
[INFO] Building Apache Pluto
[INFO]     task-segment: [deploy]
[INFO] -----

... snip, snip ...

[INFO] Retrieving previous metadata from apache.snapshots
[INFO] Uploading repository metadata for: 'snapshot org.apache.pluto:pluto-site-skin:1.2.0-SNAPSHOT'
[INFO] Retrieving previous metadata from apache.snapshots
[INFO] Uploading project information for pluto-site-skin 1.2.0-20071010.125326-2
[INFO] Retrieving previous metadata from apache.snapshots
[INFO] Uploading repository metadata for: 'artifact org.apache.pluto:pluto-site-skin'
[INFO]
[INFO] -----
[INFO] Reactor Summary:
[INFO] -----
[INFO] Apache Pluto ..... SUCCESS [20.688s]
[INFO] Pluto Descriptor Service API ..... SUCCESS [25.590s]
[INFO] Pluto Descriptor Service Implementation ..... SUCCESS [22.082s]
[INFO] Pluto Portlet Container ..... SUCCESS [22.469s]
[INFO] Pluto Portlet Tag Library ..... SUCCESS [23.149s]
[INFO] Pluto Portal Driver ..... SUCCESS [24.124s]
[INFO] Pluto Portal Driver Implementation Classes ..... SUCCESS [23.044s]
[INFO] Pluto Portal ..... SUCCESS [28.587s]
[INFO] Pluto Utilities ..... SUCCESS [27.698s]
[INFO] Maven Pluto Installer Plugin ..... SUCCESS [27.476s]
[INFO] Pluto Testsuite Portlet ..... SUCCESS [28.262s]
[INFO] Pluto Ant Tasks ..... SUCCESS [20.874s]
[INFO] Pluto Website Documentation ..... SUCCESS [19.754s]
[INFO] Pluto Website Skin ..... SUCCESS [23.839s]
[INFO] -----
[INFO] BUILD SUCCESSFUL
[INFO] -----
[INFO] Total time: 5 minutes 39 seconds
[INFO] Finished at: Wed Oct 10 08:59:01 EDT 2007
[INFO] Final Memory: 20M/37M
[INFO] -----
esm:~/src/pluto$

```

3. Next, you have to ssh into `people.apache.org` and update the permissions of the deployed snapshots. Otherwise permission conflicts may prevent your colleagues from publishing snapshots at a later date.

```

[esm@minotaur ~]$ cd /www/people.apache.org/repo/m2-snapshot-repository/org/apache/pluto
[esm@minotaur /www/people.apache.org/repo/m2-snapshot-repository/org/apache/pluto]$ find . -type f | xargs
chmod g+rw
[esm@minotaur /www/people.apache.org/repo/m2-snapshot-repository/org/apache/pluto]$ find . -type d | xargs
chmod g+rx

```

