

Development Procedures

Introduction

What is this?

This document is intended to record the development procedures used by the Maven development community.

Who is this for?

The primary audience is Maven committers.

Setting Up Your Environment

To be able to build the latest SVN version of some part of Maven you will need to add some configuration on your development machine.

Downloading snapshots

First on the agenda is to enable you to download snapshot versions from the Apache snapshot repository. Add a profile for your Apache related settings in your `settings.xml` like this:

Enable snapshot downloading in settings.xml

```
<settings>
  ...
  <profiles>
    <profile>
      <id>apache</id>
      <repositories>
        <repository>
          <id>apache.snapshots</id>
          <url>http://people.apache.org/maven-snapshot-repository/</url>
        </repository>
      </repositories>
      <pluginRepositories>
        <pluginRepository>
          <id>apache.snapshots</id>
          <url>http://people.apache.org/maven-snapshot-repository/</url>
        </pluginRepository>
      </pluginRepositories>
    </profile>
  </profiles>
  ...
</settings>
```

This tells Maven where to find snapshot versions of plugins and other artifacts. To use a profile you must tell Maven that you want to use a profile and pass along the id of that profile. When invoking Maven do it like this:

```
mvn -Papache <phase|goal>
```

If you want to read more about profiles, see [this page](#).

Publishing snapshots

To publish a snapshot of some part of Maven you need to tell Maven what your Apache username is. This is how you do it:

Enable snapshot publishing in settings.xml

```
<settings>
  ...
  <servers>
    <server>
      <username>yourApacheUsername</username>
      <id>apache.snapshots</id>
    </server>
  </servers>
  ...
</settings>
```

You also need to be a member of the group *apcvs* on people.apache.org.

Due to a bug in Maven there may be problems with the file permissions on the server after a snapshot has been published. Please read [this page](#) on how to fix your own files.

If someone else has not cleaned up after themselves you can run these commands on the shell to fix it. **Important:** don't run it all in one batch, as it uses the `-f` flag for `rm`. Make sure the files have been copied before you remove them.

Restore file permissions on maven-metadata files in the current directory

```
cp maven-metadata.xml maven-metadata.xml.bak
cp maven-metadata.xml.md5 maven-metadata.xml.md5.bak
cp maven-metadata.xml.sha1 maven-metadata.xml.sha1.bak
chmod 664 maven-metadata.xml*.bak
# Stop here and check that the files have been copied and that the copies have the
correct permissions
rm -f maven-metadata.xml
rm -f maven-metadata.xml.md5
rm -f maven-metadata.xml.sha1
mv maven-metadata.xml.bak maven-metadata.xml
mv maven-metadata.xml.md5.bak maven-metadata.xml.md5
mv maven-metadata.xml.sha1.bak maven-metadata.xml.sha1
```

Publishing websites

To publish a website for some part of Maven you need to tell Maven what your Apache username is. This is how you do it:

Enable website publishing in settings.xml

```
<settings>
  ...
  <servers>
    <server>
      <username>yourApacheUsername</username>
      <id>apache.website</id>
    </server>
  </servers>
  ...
</settings>
```

You also need to be a member of the group *maven* on people.apache.org.

When publishing plugin docs, be sure to activate the *reporting* profile with `-P reporting`.

Publishing schemas

To publish a schema, first generate it, then scp it to people.apache.org.

```
/svn/maven/components/maven-model
$ mvn modello:xsd
...
$ scp target/generated-site/xsd/maven-4.0.0.xsd
people.apache.org:/www/maven.apache.org/xsd/
```

The schemas should be published to <http://maven.apache.org/xsd/>

The schemas currently in [/www.maven.apache.org](http://www.maven.apache.org) are:

- `maven-v3_0_0.xsd`
- `maven-v4_0_0.xsd`
- `maven-navigation-1.0.xsd` (from Maven 1)

These files should be removed, and symlinks added to the actual files in `/xsd`.

See: <http://www.nabble.com/Publishing-schemas-t2566129s177.html> for discussion