

Geronimo 2.1.5 Release Tips

Prerequisite

1. Use Genesis 2.0 as a parent pom

```
<parent>
  <groupId>org.apache.geronimo.genesis</groupId>
  <artifactId>genesis-java5-flava</artifactId>
  <version>2.0</version>
</parent>
```

- genesis-java5-flava-2.0.pom
 - genesis-default-flava-2.0.pom
 - genesis-2.0.pom
 - apache-6.pom

2. Use Maven 2.2.1 (not try if 2.0.10 or 2.0.11 can run)

- Enable Apache Servers (refer: <http://maven.apache.org/developers/commmitter-settings.html>)

```
<settings>
...
<servers>
  <!-- To publish a snapshot of some part of Maven -->
  <server>
    <id>apache.snapshots.https</id>
    <username> <!-- YOUR APACHE LDAP USERNAME --> </username>
    <password> <!-- YOUR APACHE LDAP PASSWORD --> </password>
  </server>
  <!-- To publish a website of some part of Maven -->
  <server>
    <id>apache.website</id>
    <username> <!-- YOUR APACHE LDAP USERNAME --> </username>
    <filePermissions>664</filePermissions>
    <directoryPermissions>775</directoryPermissions>
  </server>
  <!-- To stage a release of some part of Maven -->
  <server>
    <id>apache.releases.https</id>
    <username> <!-- YOUR APACHE LDAP USERNAME --> </username>
    <password> <!-- YOUR APACHE LDAP PASSWORD --> </password>
  </server>
  <!-- To stage a website of some part of Maven -->
  <server>
    <id>stagingSite</id> <!-- must match hard-coded repository identifier in site:stage-deploy -->
    <username> <!-- YOUR APACHE LDAP USERNAME --> </username>
    <filePermissions>664</filePermissions>
    <directoryPermissions>775</directoryPermissions>
  </server>
  ...
</servers>
</settings>
```

3. Setup PGP Keys (for the ones who be the release manager the first time)

- Download gnupg2
- Generate your PGP Key (refer: <http://www.apache.org/dev/openpgp.html>)
 - How To Avoid SHA-1
 - How To Generate a Strong Key
- Append your key to <https://svn.apache.org/repos/asf/geronimo/KEYS>
- Update Maven's settings.xml with following:

```

<settings>
  ...
  <profiles>
    <profile>
      <id>apache-release</id>
      <properties>
        <gpg.passphrase> <!-- YOUR KEY PASSPHRASE --> </gpg.passphrase>
      </properties>
    </profile>
  </profiles>
  ...
</settings>

```

reference:

<http://maven.apache.org/developers/release/apache-release.html>
<http://maven.apache.org/developers/release/pmc-gpg-keys.html>

Special changes for releasing the server 2.1.5

1. Add "all-subprojects" profile(Similar with what David Jencks did for 2.2)

By default, maven-release-plugin will use the default profile to search all the pom.xml files and auto-update the version numbers. But integration tests are often run from non-pom packaging projects, so We also need include them during the release plugin running. Hence we create a new "all-subprojects" profile:

- /pom.xml
This profile is just the same as default profile.

```

<profile>
  <id>all-subprojects</id>
  <modules>
    <module>repository</module>
    <module>buildsupport</module>
    <module>testsupport</module>
    <module>framework</module>
    <module>plugins</module>
    <module>assemblies</module>
    <module>testsuite</module>
  </modules>
</profile>

```

- /framework/configs/pom.xml
The config modules are all included by default, but the 4 integration test are not. So if we want this 4 projects' pom can be updated by maven-release-profile, we need explicitly point out.

```

<profile>
  <id>all-subprojects</id>
  <modules>
    <module>geronimo-gbean-deployer/src/it/j2ee-system-it1</module>
    <module>geronimo-gbean-deployer/src/it/j2ee-system-it2</module>
    <module>geronimo-gbean-deployer/src/it/metadatageneration-it3</module>
    <module>geronimo-gbean-deployer/src/it/metadatageneration-it4</module>
  </modules>
</profile>

```

btw, I refactored the names of above 4 itest to make them the same with 2.2, i.e.

- j2ee-system -> j2ee-system-it1
- j2ee-system-2 -> j2ee-system-it2
- metadatageneration -> metadatageneration-it3
- metadatageneration-2 -> metadatageneration-it4
- /plugins/pom.xml (and some others do not need to add "all-subprojects" profile)
Not all the pom.xml must have an "all-subprojects" in file. If there is no special projects as above, you can just leave the pom as is (take /plugins/pom.xml as example).

- /testsuite/pom.xml and its children
A lot of efforts were put on testsuite. When run with "all-subprojects" profile to do a release, we don't need really run and pass the tests. Remember the goal of this profile is just to find all the sub-projects' pom files so that release-plugin can auto update their versions.
- prepare the release

```
mvn release:prepare -DdryRun=true -Pall-subprojects -Papache-release -Dtest=false
```

In above command **-Dtest=false** seems not take effect?? So, currently I add following in root pom's all-subprojects profile.

```
<properties>
  <maven.test.skip>true</maven.test.skip>
</properties>
```

and use the following command:

```
mvn release:prepare -DdryRun=true -Pall-subprojects
```

- Check if all pom.xml files have a pom.xml.tag generated
Compare the quantity of the 2 files
- and if the versions in pom.xml.tag are updated correctly,
The only things that should be different between these files are the <version> and <scm> elements.
- and if there is no "SNAPSHOT" in pom.xml.tag files.
Just find in files..

2. Don't deploy the test artifacts to maven repo

Because there are a lot of sub-projects that not need to be released, such as integration tests and testsuites, we need filter them out when do maven deploy:

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-deploy-plugin</artifactId>
  <configuration>
    <skip>true</skip>
  </configuration>
</plugin>
```

- /framework/configs/geronimo-gbean-deployer/src/it/j2ee-system-it1/pom.xml
- /framework/configs/geronimo-gbean-deployer/src/it/j2ee-system-it2/pom.xml
- /framework/configs/geronimo-gbean-deployer/src/it/metadatageneration-it3/pom.xml
- /framework/configs/geronimo-gbean-deployer/src/it/metadatageneration-it4/pom.xml
- /testsuite/pom.xml

3. Other changes

- Remove **tools-maven-plugin** and use the **ianal-maven-plugin**(defined in genesis-default-flava-2.0.pom) to verify-legal-files
 - and also add following in testsuite/pom.xml

```
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>ianal-maven-plugin</artifactId>
  <configuration>
    <!-- Don't bother checking legal file here, we never publish them. -->
    <skip>true</skip>
  </configuration>
</plugin>
```

- Remove a bunch of maven plugins definition in server root pom
- Update xmlbeans-maven-plugin to 2.3.3 and remove all the following hacked codes:

```
<!--
HACK: Copy XmlBeans generated schemas.
```

```

-->
<plugin>
  <groupId>org.apache.geronimo.buildsupport</groupId>
  <artifactId>buildsupport-maven-plugin</artifactId>
  <executions>
    <execution>
      <goals>
        <goal>copy-xmlbeans-schemas</goal>
      </goals>
    </execution>
  </executions>
</plugin>

```

Release memo

1. NOTICE.txt files

- Check the "Year" of copyright in all NOTICE.txt file.
- Check the "Year" of copyright in plugins/welcome\geronimo-welcome\src\main\webapp\index.jsp

2. Before release, need manually update versions from 2.1.5-SNAPSHOT to 2.1.5

- Update the **VERSION** in **README.txt / RELEASE_NOTES-2.1.5-SNAPSHOT.txt**, and rename to **RELEASE_NOTES-2.1.5.txt**
- Update **<version> properties** in root pom.xml ?? (need update to <version>\${version}</version>)
- Update versions in "assemblies\geronimo-boilerplate-minimal\src\main\overlay\etcgsh-classworlds.conf"
- Others
 - plugins\remote-deploy\geronimo-remote-deploy\src\main\webapp\WEB-INF\geronimo-web.xml
 - plugins/welcome\geronimo-welcome\src\main\webapp\WEB-INF\geronimo-web.xml
 - framework\modules\geronimo-plugin\src\test\resources\geronimo-plugins.xml
 - framework\configs\plugin\pom.xml - DownloadedPluginRepos
 - framework\configs\geronimo-gbean-deployer\src\it\2ee-system-it1\src\test\resources\META-INF\geronimo-plugin.xml
 - framework\configs\geronimo-gbean-deployer\src\it\2ee-system-it1\src\test\resources\META-INF\plan.xml
 - framework\configs\geronimo-gbean-deployer\src\it\metadatageneration-it3\src\test\resources\META-INF\geronimo-plugin.xml
 - testsuite\webservices-testsuite\jaxrpc-tests\jaxrpc-war\src\main\webapp\WEB-INF\geronimo-web.xml - jaxrpc-war
- Not Applicable after 2.1.5:
 - framework\modules\geronimo-upgrade\src\test\resources\gbean_1.xml
 - framework\modules\geronimo-upgrade\src\test\resources\gbean_1_result.xml
 - framework\configs\geronimo-gbean-deployer\src\it\2ee-system-it2\src\test\resources\META-INF\geronimo-plugin.xml
 - framework\configs\geronimo-gbean-deployer\src\it\2ee-system-it2\src\test\resources\META-INF\plan.xml
 - framework\configs\geronimo-gbean-deployer\src\it\metadatageneration-it4\src\test\resources\META-INF\geronimo-plugin.xml

3. After release, update versions to 2.1.6-SNAPSHOT

- Update **artifact-alias**, add version 2.1.5 in artifact-alias after 2.1.5 release
 - /framework/configs/pom.xml
 - /plugins/client/pom.xml
 - /plugins/corba/client-corba-yoko/pom.xml
 - /plugins/pom.xml
- Revert versions definition in **README.txt / RELEASE_NOTES-2.1.5.txt**, **rename to RELEASE_NOTES-2.1.6-SNAPSHOT.txt**,
- Update **<version> properties** from **\${version}** to **2.1.6-SNAPSHOT** in root pom.xml so that can be built in mvn 2.0.10
- Update versions in "assemblies\geronimo-boilerplate-minimal\src\main\overlay\etcgsh-classworlds.conf"
- Others, same as in #2

4. Update geronimo-plugins.xml

- delete your local ~/.m2/repository/geronimo-plugins.xml
- build tag 2.1.5, then will generate a new geronimo-plugins.xml in ~/.m2/repository/
- do the actions as described here -- <https://cwiki.apache.org/GMOxPMGT/geronimo-server-release-process.html> -- in step 12.

5. Vote and Announce

1. Vote in mailing list, meanwhile wait TCK results
2. Promote stagine repo
3. Announce in mailing list
4. Post news in homepage
 - Modify frontpage and add a news.
 - Modify <http://geronimo.apache.org/downloads.html>.
 - Add a new page list the artifacts that can be downloaded.
 - Add artifacts to <http://www.apache.org/dist/geronimo/>
 - Copy <https://svn.apache.org/repos/asf/geronimo/KEYS> to people.apache.org:/www/www.apache.org/dist/geronimo/KEYS if your public key is not in it (one time)

- Upload the artifacts and their checksums to people.apache.org/www/www.apache.org/dist/geronimo/2.1.5
Ensure distribution directories have 0775 dir permission and a 0664 file permission set on them