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)


```
<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:
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.

- /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.

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).
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.

```java
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.

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

and use the following command:

```java
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:

```xml
<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

```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:

```xml
<!-- HACK: Copy XmlBeans generated schemas.
```
Release memo

1. NOTICE.txt files
   - Check the "Year" of copyright in all NOTICE.txt files.
   - 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/underlay/etc/gsh-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/geronimo-plan.xml
   - 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/geronimo-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/underlay/etc/gsh-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 stage repo
   - 3. Announce in mailing list
   - 4. Post news in homepage
     - Modify frontpage and add a news.
     - 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