



Apache Maven

Beginner to Guru

Maven Release Plugin Overview



Maven Release Plugin

- The Maven Release Plugin can be used to release versions of your project.
- High level release process:
 1. Version 1.0.0-SNAPSHOT
 2. Version 1.0.0
 3. Version 1.0.1-SNAPSHOT



Release Considerations

- Snapshots are considered development versions and source changes are not closely tracked
- Releases however, are formal releases of a software project.
 - Source code should be tracked
 - Auditors in some industries will require source code of a release to be tracked
 - You should be able to re-create the released artifact from your SCM
 - Best practice is to tag SCM with release
 - Allows you to definitively know what is in the 'release'



Maven Release Plugin Goals

• Prepare Release

- Check no uncommitted changes
- Check no snapshots
- Update to release version
- Run Tests
- Tag in SCM
- Next Snapshot version
- Commit

• Perform Release

- Checkout of SCM with SCM tag
- Run release goals
 - default deploy site deploy
- Remove release files
- Checkout of SCM master





Release Rollback

- Typically used if errors have occurred in release:prepare goal
 - Will revert POMs back to pre-release state
 - SCM Tag may be removed
 - Tag removal is not fully implemented (depends on SCM)
 - SourceTree is a handy tool for GIT
- Will not work if goal release:clean has been run



Clean Release

- Cleans up release files
 - removes release.properties
 - removes any backup POMs
- Normally removed with release:perform



Update POM Versions

- Goal can be used to update POM versions in multi-model projects
- Handy tool if default release process does not meet your needs
- Not shown in course
 - command: `mvn release:update-versions -DautoVersionSubmodules=true`

