



Apache Maven

Beginner to Guru

SCM Configuration



Maven SCM Plugin

- SCM - Software Configuration Management or Source Control Management
- Under the covers, the Maven Release Plugin - is using the Maven SCM Plugin to interact with the project's SCM
- The Maven SCM Plugin supports most major SCMs
- The Maven SCM Plugin Supports: Git, CVS, Subversion, TFS, Mercurial, Perforce, and others
- Exact abilities vary by SCM
- In this course we will focus on using Git and GitHub



SCM Configuration

- The SCM is defined in the SCM section of the POM
- The 'connection' element defines the read URL
- The 'developerConnection' element defines the write url.
- The URL is prefixed with 'scm:[scm-provider]:[SCM URL]'
 - Example: scm:git:[git@github.com](https://github.com):springframeworkguru/spring-cloud-contract-oa3.git
- The tag element defines the tag project is under (defaults to HEAD)
- The url element defines the public repository URL.



Git Hub Authentication

- Depends on how you cloned from GitHub - HTTPS or SSH
- HTTPS:
 - Set property '[project.scm.id](#)'
 - Setup server credentials in settings xml
- SSH:
 - No configuration needed, SSH credentials will be used
 - Note: SSH is only available on OSX, Linux, and Windows 'bash' environments

