**JENKINS**

* New Item – Name it – Freestyle Project
* **Source Code** – GIT – Add Repository URL
* Add Credentials if REPO is Private
* BUILD – Will Clone the REPO – Check Workspace
* **MAVEN** uses pom.xml file for everything.

**GLOBAL TOOL CONFIGURATION**

* Install GIT on server and get the location by “whereis GIT”
* Name – Default
* Path – specify the path from server
* Add **MAVEN** :

Name – Any name

Install Automatically

* Add **JDK**:

Name: Any name

Install by giving Oracle ID/Password

**Code Compile**

* New Items – Name the project and select Freestyle Project.
* Source Code Management – REPO URL
* BUILD – Invoke top level Maven targets

Version – Name from Global Tool Config

Goal – Compile

SAVE and Build Now

* Check the TARGET directory - .class file

**Code Review**

* New Items -Name the project and select Freestyle Project.
* Source Code Management – REPO URL
* BUILD – Invoke top level Maven targets

Version – Name from Global Tool Config

Goal – [-P metrics pmd pmd]

SAVE and Build Now

* Check Target directory – pmd.xml
* To make this File readable – install PMD plugin from PLUGIN Manager.
* Go to – POST BUILD ACTIONS – Publish PMD analysis
* PMD result path : Get the pmd.xml file location (target/pmd.xml)
* Build now – Check PMD warnings

**QA\_UNIT\_TEST**

* New Items -Name the project and select Freestyle Project.
* Source Code Management – REPO URL
* BUILD – Invoke top level Maven targets

Version – Name from Global Tool Config

Goal - Test

SAVE and Build Now

* Check Target reports
* To make this File readable – install JUNIT plugin from Manage PLUGIN Manager.
* Go to – POST BUILD ACTIONS – Publish Junit result
* Test Report xml : target/surefire-reports/\*xml
* Build now – Check LATEST TEST RESULT

**QA\_Metrics\_check**

* New Items -Name the project and select Freestyle Project.
* Source Code Management – REPO URL
* BUILD – Invoke top level Maven targets

Version – Name from Global Tool Config

Goal – cobertura:cobertura-Dcobertura.report.format=xml

SAVE and Build Now

* Check Target reports – site/cobertura – coverage.xml
* To make this File readable – install cobertura plugin from Manage PLUGIN Manager.
* Go to – POST BUILD ACTIONS – Publish cobertura coverage report
* Test Report xml : \*\*/target/site/cobertura/coverage.xml
* Build now – Check Coverage report

**Package**

* New Items -Name the project and select Freestyle Project.
* Source Code Management – REPO URL
* BUILD – Invoke top level Maven targets

Version – Name from Global Tool Config

Goal – package

SAVE and Build Now

* Check Target reports – addressbook.war (war file)