MAVEN JOB

**Pre-requisite**

* Jenkin
* Git
* Java
* Windows 10

**Note:**

1. Since we already installed all the required tools on the machine, we need to ensure Jenkins does not auto-install when running maven project. For that we can uncheck auto-install option and provide name and path of all required tools.
2. For Git, we do not have to explicitly provide name and path as it automatically detects where it is located.

**Maven Project (By Maven)**

* Fork any maven project on GitHub and copy it to your GitHub account
* Now clone it on your local machine: git clone <repo URL>
* Go inside the repo folder through command prompt: cd <time-tracker>
* Build project using maven: mvn clean package

**Installation & Configuration**

* Log into Jenkins by using localhost:8080 and providing username and password.
* Go to manage Jenkins on left side of Jenkins dashboard.
* Manage Plugins.
* Update Jenkins if it is asking
* Update all plugins if required.
* Available.
* Select Maven Integration & Green Ball
* Install without start
* Try to re-start Jenkins after done with plugins installation
* Now go to Manage Jenkins
* Global Tool Configuration
* Add JDK: Untick automatic installation; Provide name and jdk path
* Now do the same for Maven.
* Git location is automatically detected by Jenkins, we don’t have to explicitly mention its name and path.
* Apply and Save

**Maven Project (Using Jenkins)**

* Create New item on Jenkins
* Item name: MyMavenProject
* Select Maven Project
* OK
* Source Code Management: git Repository URL
* Build Option -> Root POM -> pom.xml
* Goals & Options -> clean package -> Save
* Go to Jenkins home page -> click on MyMavenProject -> Build Now
* Now go to GitHub account and make some wrong changes in project URL
* Come back to Jenkins and try to build MyMavenProject again with errors.
* Go to GitHub URL and fix error and again build MyMavenProject to ensure successful build.