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Selenium Java Training - Session 25 - Maven Commands and Jenkins

Maven (Continued)

- Create a new Maven Project
- Create any class ending with the name 'Test' say 'OneTest' and write sample Selenium code - [view here](#)
- Make sure Maven Surefire plugin is inside the pom.xml file
  - Add the latest version of Maven Surefire Plugin
- Go to project director and perform the below commands
  - Maven Build Life Cycle Phases
    - Clean
    - Compile
    - Test
    - And many
  - mvn clean - Cleans the project and removes build errors if any
  - mvn compile - compile build phase after maven will identify an compiler error in the code without eclipse ide
  - mvn test - performs clean, compile and test
    - Maven Surefire Reports
    - Also, verifies windows > users > username > .m2 > repository > org for required jars mentioned in pom.xml file
    - If not available, it will download the jars from the mvnrepository
- Executing using testng.xml file
  - Add the "Maven Surefire Plug-in for TestNG configuration" into the surefire plug-in
  - mvn test (Running complete things mentioned in testng.xml)
  - mvn -Dtest=ClassTwoTest test (Only specified class tests will be executed)
  - Creating Profiles in pom.xml file - [View here](#)
    - mvn clean test -P Smoke

Jenkins

- Automating the initiation of the automation scripts
- Using Jenkins we can schedule and trigger the scripts at early hours if needed
- In Real time, Dev-ops team will setup Jenkins for you in a centralized Server machine.
  - download Jenkins > Generic Java Package (war)
  - Open command prompt from the place where war file is available and hit the below command
    - java -jar jenkins.war
    - You will see a password
    - Then open localhost:8080 in chrome browser

- Add Java
    - JAVA_HOME
    - JDK Path in your machine
    - Don't opt for automatic installation
- Add Maven
    - Opt for Install Automatically
    - Select the latest version of Maven while opting
- And Save & Apply
- Create a new Job in Jenkins
    - Jenkins Home > New Item > Give Job name and select 'Freestlye' project
    - Copy the Project to the Jenkins folder (C > Users > Username > Jenkins)
    - Select Advanced in Jenkins > Select Use custom workspace checkbox
    - Directory - Give your Project Path
    - Build > Add build step > Invoke top-level Maven targets > Select Maven Version >type test command without mvn in the field and save
- Build Now to Run
- Click on the Results > Output Console
- Installing TestNG Results Plugin
    - Manage Jenkins > Plugin Manager > Available > TestNG > Install without restart
    - Job > Configure > Post Build Actions > Publish TestNG Results

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