**JENKINS**

**Build Tool installation:**

**Make sure you have installed Maven and JDK8 in Jenkins. Follow below steps to install JDK8**

1. **SSH to Jenkins instance**
2. **Run commands**

* **Sudo su -**
* **Sudo apt update**
* **Sudo apt install openjdk-8-jdk -y**
* **ls /usr/lib/jvm**
* **copy the path like - /usr/lib/jvm/java-1.8.0-openjdk-amd64**

1. **Go to Jenkins dashboard**
2. **Click on “Manage Jenkins” – Click on “Global Tool Configuration”**
3. **Go to “JDK Installations” – Click Add – Give name as “OracleJDK8”**
4. **Paste the JDK8 installation path which we have copied to “JAVA\_HOME”**
5. **Now go down and select “Maven Installations”**
6. **Give name as “MAVEN3” – select the version as 3.\* and Click Save**

**Create Our First Job**

1. **Click on “Create Job”**
2. **Give Job name as “Build”**
3. **Select template “Freestyle project” and click ok**
4. **Give description as “sscademy maven build project”**
5. **Select “Git” and paste the GitHub link**
6. **Mention the Branch name as “ss-rem”**
7. **Go to “Build Steps” option – Add build step – Select “Invoke top-level Maven targets”**
8. **Select Maven version – “MAVEN3”**
9. **Type in Goals – “install”**
10. **Click on “Save”**
11. **Go to Dashboard**
12. **Go to Build Job and click on “Build Now”**
13. **You can go to “Console output” to check the logs**
14. **Go to Workspace to see the complete files Jenkins has used to Build the artifact**
15. **To save artifact we have to add Post Build action**
16. **Now Click on “Configure”**
17. **Click on “Add post-build action” – Select “Archive the artifact”**
18. **Type “ \*\*/\*.war” in Files to archive**
19. **Click Save**
20. **Run Build now again**

**What is MAVEN**

**Maven is a Build tool. (Refer PPT)**