

Lab Exercise 7

Integrating Maven with Jenkins

Objective: To install the Maven plugin in Jenkins for smooth integration and automation of Maven-based build processes within the Jenkins environment

Tools required: Git, GitHub, and Jenkins

Prerequisites: None

Steps to be followed:

1. Install the Maven plugin
2. Set up Global Tool Configuration
3. Fork a sample repository
4. Integrate Maven with Jenkins

Step 1: Install the Maven plugin

1. Open the browser, go to the Jenkins Dashboard by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button



Sign in to Jenkins

Username

Password

☐ Keep me signed in

2. Click on the **Manage Jenkins** option as shown in the screenshot below:
3. Click on the **Plugins** option as shown in the screenshot below:
4. Click on **Installed plugins** to verify whether the **Maven Integration plugin** has been installed



Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Dev Tools Symbols API  Success

Javadoc  Success

JSch dependency  Success

Maven Integration  Success





Loading plugin extensions  Success

5. Use the following command to check the Maven version:
mvn -version


```
Apache Maven 3.9.11 (3e54c93a704957b63ee3494413a2b544fd3d825b)
Maven home: /opt/homebrew/Cellar/maven/3.9.11/libexec
Java version: 24.0.2, vendor: Homebrew, runtime: /opt/homebrew/Cellar/openjdk/24.0.2/libexec/openjdk.
jdk/Contents/Home
Default locale: en_US, platform encoding: UTF-8
OS name: "mac os x", version: "15.5", arch: "aarch64", family: "mac"
mohdanas@Mohds-MacBook-Air ~ %
```

Step 2: Set up Global Tool Configuration

1. Go to the Jenkins Dashboard, click on **Manage Jenkins**, and then select **Tools** from the list of options


 / Manage Jenkins / Tools   


Add Maven

≡ Maven 


Name


MAVEN_HOME

☒ Install automatically 

≡ Install from Apache 

Version

3.9.11 

Add Installer 

Add Maven

Save

Apply

2. To configure Maven, click on the **Maven installations** button in the Maven section and enter a **Name** and **MAVEN_HOME** path