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

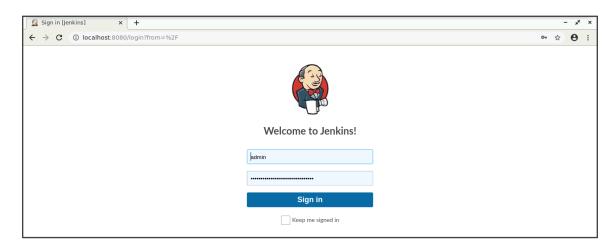
2. Set up Global Tool Configuration

3. Fork a sample repository

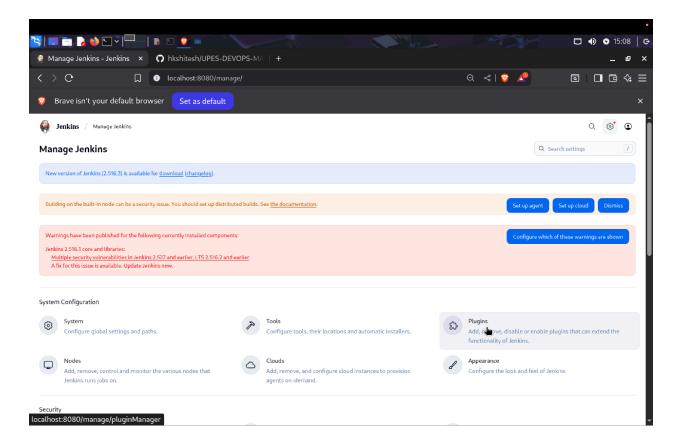
4. Integrate Maven with Jenkins

Step 1: Install the Maven plugin

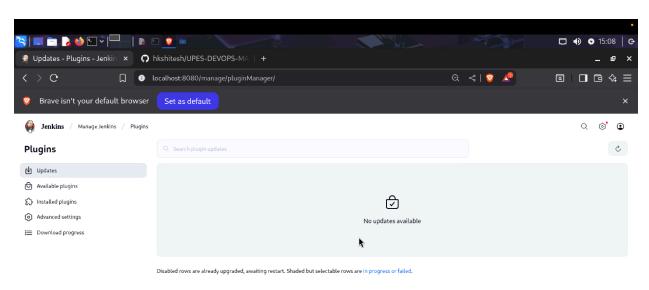
1. Open the browser, go to the Jenkins Dashboard by typing localhost:8080 in your browser, provide the credentials, and click the Sign in button



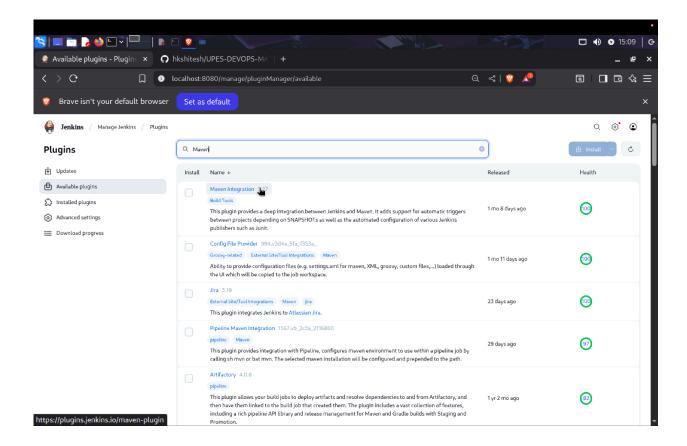
2. Click on the **Manage Jenkins** option as shown in the screenshot below:



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



Note: Maven is already installed in your practice lab environment. If not, click on **Available plugins**, search for the Maven Integration plugin, and install it.

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

mvn -version

```
labsuser@ip-172-31-39-225:~$ mvn -version

Apache Maven 3.6.3

Maven home: /usr/share/maven

Java version: 11.0.21, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64

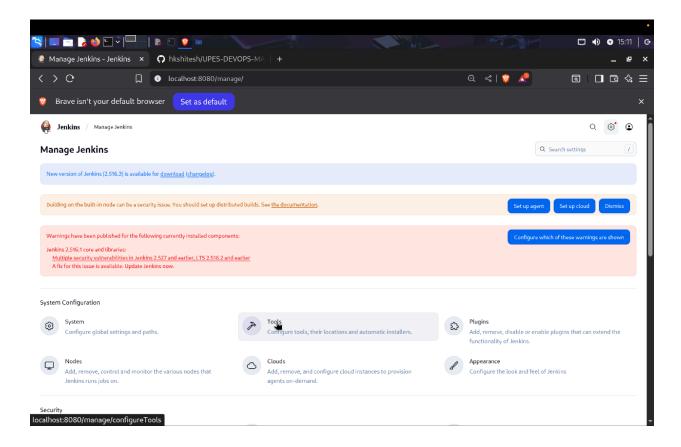
Default locale: en, platform encoding: UTF-8

OS name: "linux", version: "6.2.0-1018-aws", arch: "amd64", family: "unix"

labsuser@ip-172-31-39-225:~$ [
```

Step 2: Set up Global Tool Configuration

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



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

