Lab Exercise 7

Integrating Maven with Jenkins

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Batch 2 DevOps

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

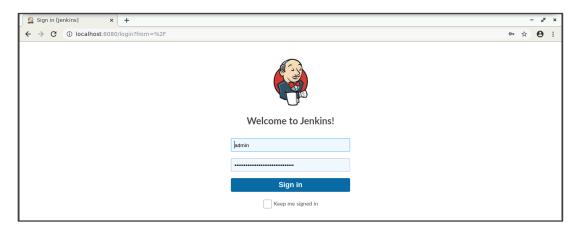
Steps to be followed:

1. Install the Maven plugin

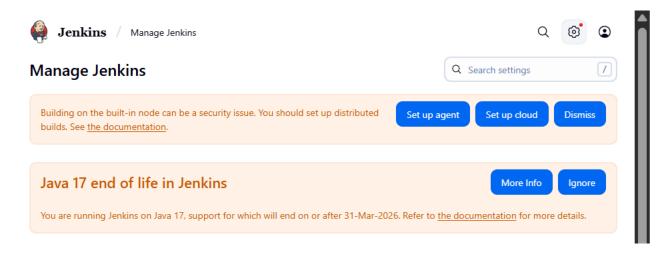
- 2. Set up Global Tool Configuration
- 3. Fork a sample repository
- 4. Integrate Maven with Jenkins

Step 1: Install the Maven plugin

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



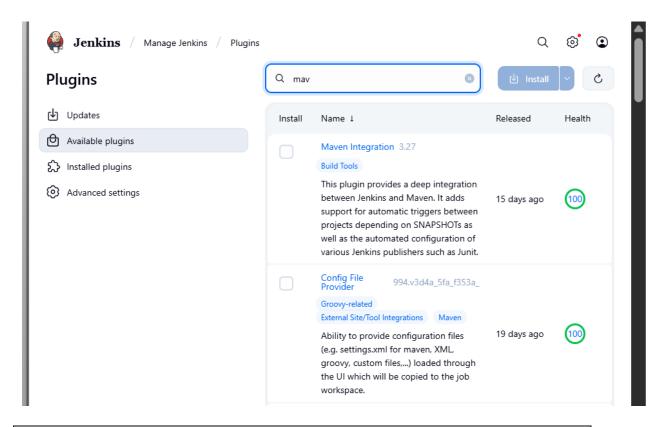
1.2 Click on the Manage Jenkins option as shown in the screenshot below:



1.3 Click on the **Plugins** option as shown in the screenshot below:



1.4 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.

1.5 Use the following command to check the Maven version:

mvn -version

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\ ASUS> mvn -version
Apache Maven 3.9.11 (3e54c93a704957b63ee3494413a2b544fd3d925b)

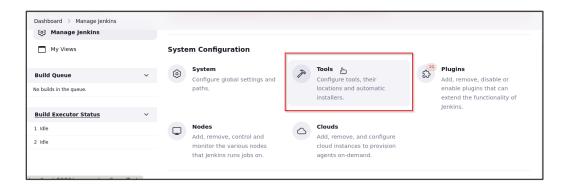
Maven hone: c:\Program Files\Apache\apache-maven-3.9.11
Java version: 17.0.16, vendor: Eclipse Adoptium, runtime: C:\Program Files\Eclipse Adoptium\jdk-17.0.16.8-hotspot
Default locale: en.1M, platform encoding: Cp1252

OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"

PS C:\Users\ ASUS> |
```

Step 2: Set up Global Tool Configuration

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



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

