

Lab Exercise 7 Integrating Maven with Jenkins

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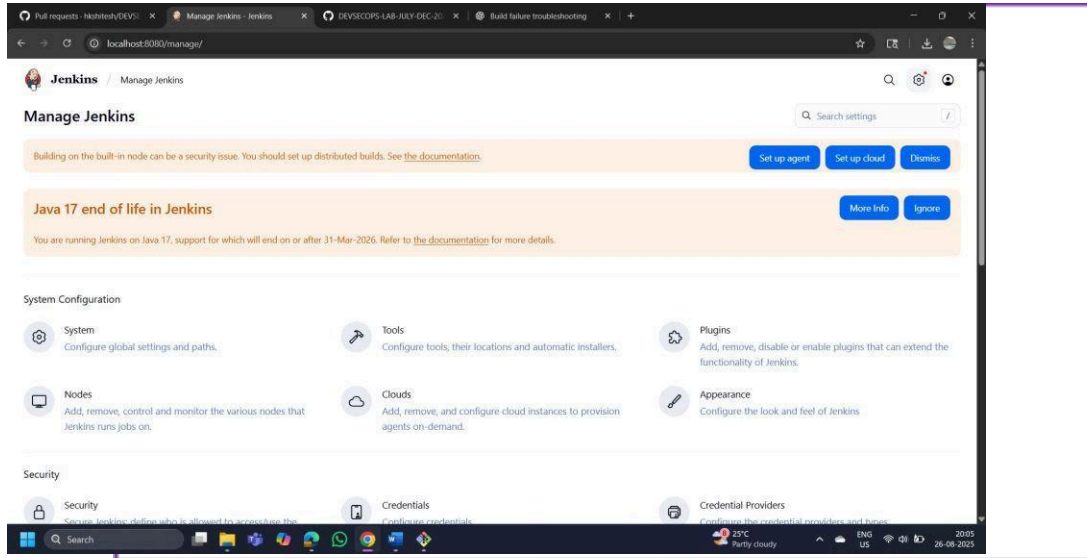
Objective: To install the Maven plugin in Jenkins for smooth integration and automation of Maven-based build processes within the Jenkins environment

Tools required: Git, GitHub, and Jenkins

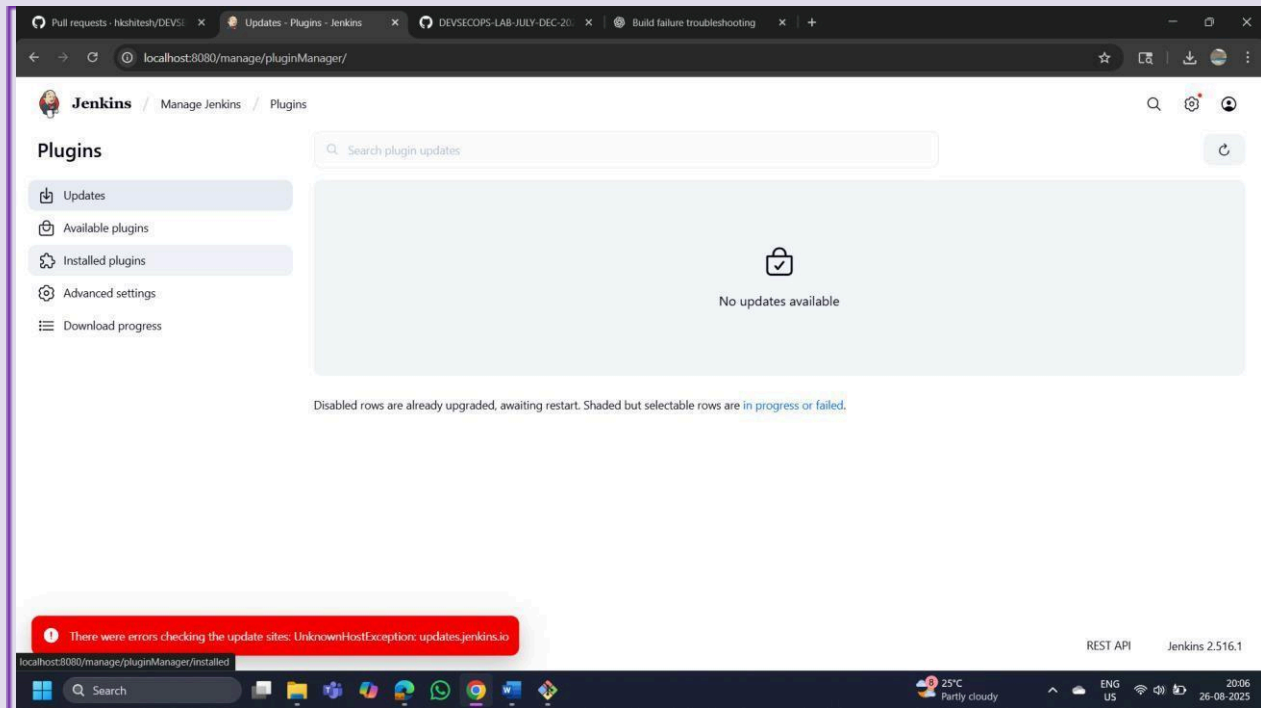
Prerequisites: None

Step 1: Install the Maven plugin

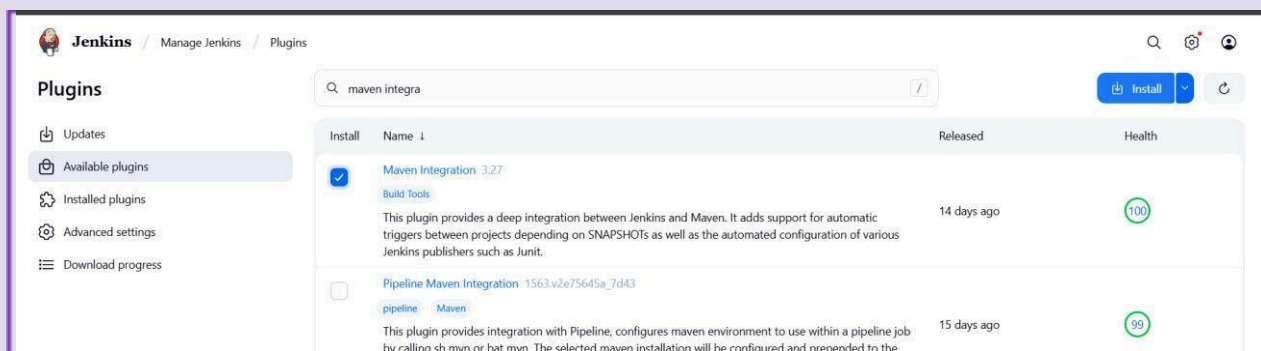
- 1.1 Open the browser, go to the Jenkins Dashboard by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button
- 1.2 Click on the **Manage Jenkins** option as shown in the screenshot below:



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



(My plugin of MAVEN was not installed so installed it)

localhost:8080/manage/pluginManager/updates/

Jenkins

Manage Jenkins / Plugins

Plugins

- Updates
- Available plugins
- Installed plugins
- Advanced settings
- Download progress

Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

commons-lang3 v3.x Jenkins API	Success
Icons API	Success
Folders	Success
OWASP Markup Formatter	Success
ASM API	Success
JSON Path API	Success
Struts	Success
Pipeline: Step API	Success
commons-text API	Success
Token Macro	Success
Build Timeout	Success
bouncycastle API	Success
Credentials	Success
Plain Credentials	Success
Variant	Success
SSH Credentials	Success
Credentials Binding	Success
SCM API	Success

localhost:8080/manage/configureTools/

Jenkins

Manage Jenkins / Tools

Maven installations

Add Maven

Maven

Name

Maven

Required

Install automatically

Install from Apache

Version

3.9.11

Add Installer

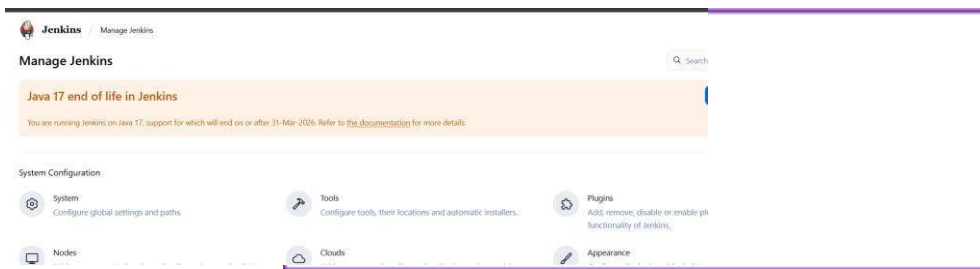
Save Apply

1.5 Use the following command to check the Maven version:
mvn -version

```
C:\apache-maven-3.9.11\apache-maven-3.9.11\bin>mvn -version
Apache Maven 3.9.11 (3e54c93a704957b63ee3494413a2b544fd3d825b)
Maven home: C:\apache-maven-3.9.11\apache-maven-3.9.11
Java version: 23.0.1, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk-23
Default locale: en_IN, platform encoding: UTF-8
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"
```

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

