Lab Exercise 7
Integrating Maven with Jenkins

Name- MISHA

Batch- 2 (DevOps)

SAP ID- 500119679

Objective: To install the Maven plugin in Jenkins for smooth integration and automation of Maven-based build processes within the Jenkins environment
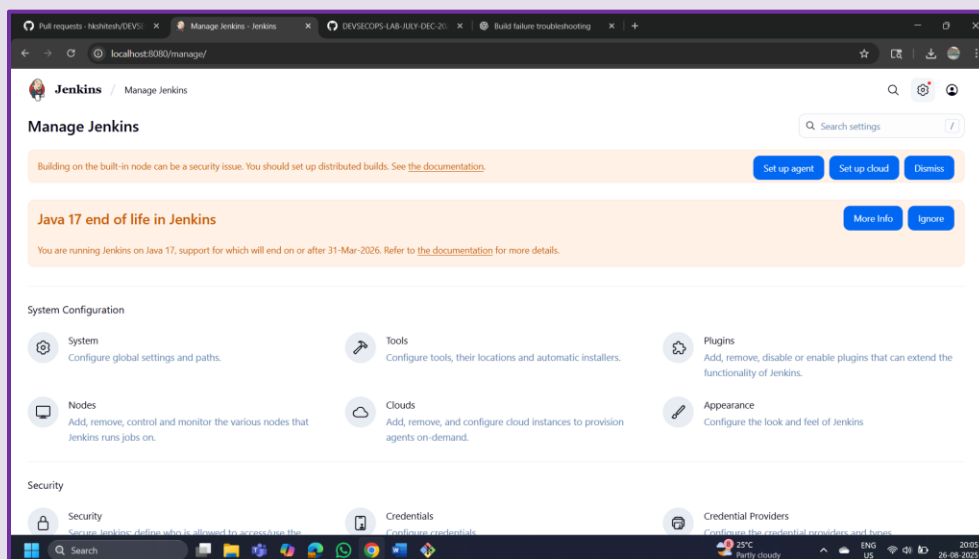
Tools required: Git, GitHub, and Jenkins
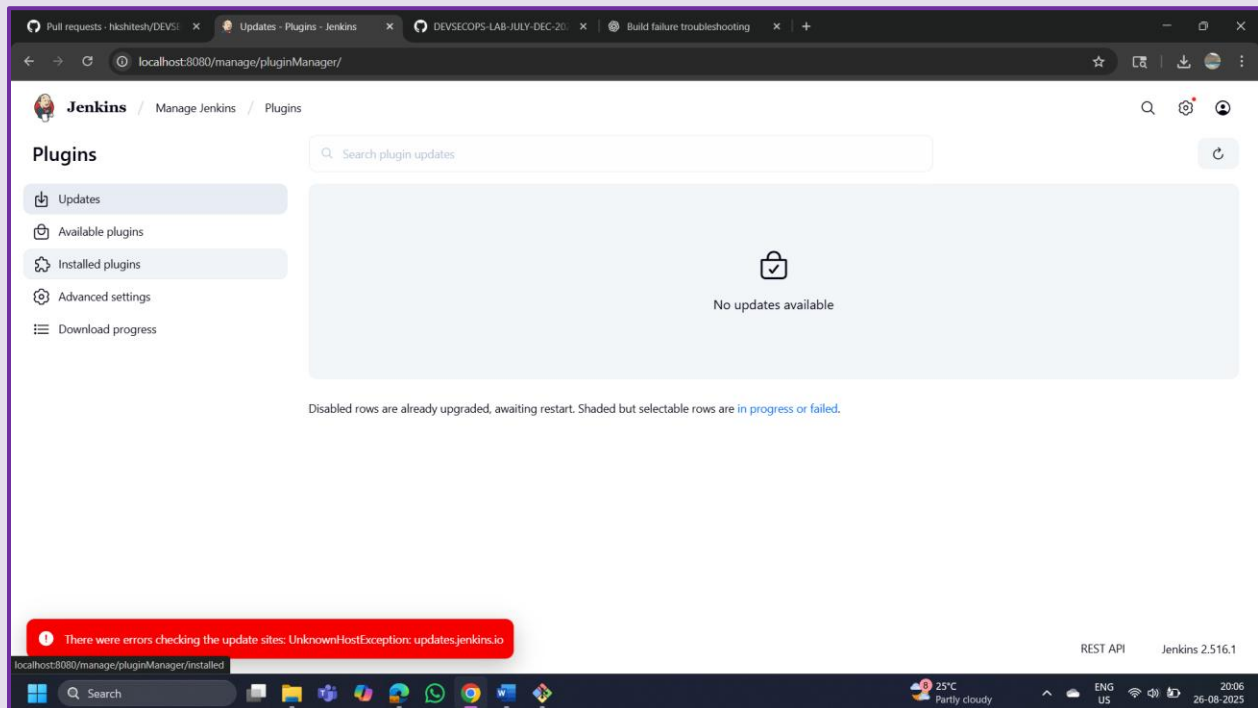
Prerequisites: None

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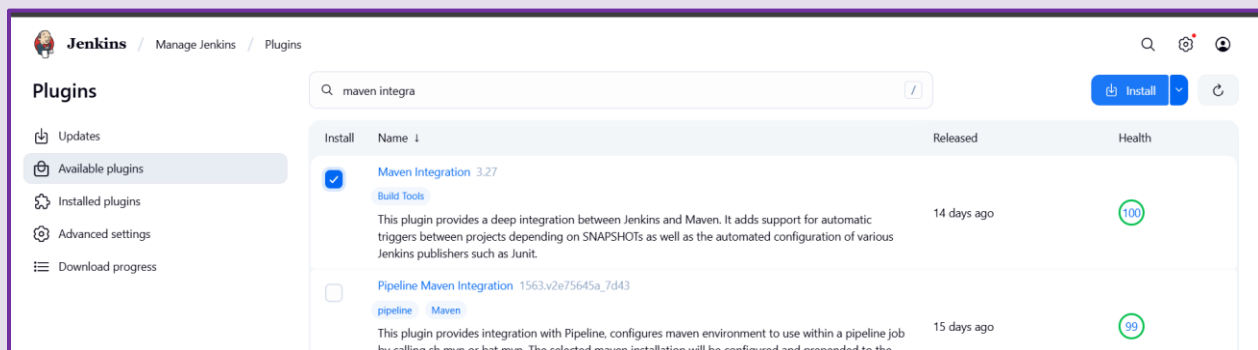
1.2 Click on the **Manage Jenkins** option as shown in the screenshot below:

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)

Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

commons-lang3 v3.x Jenkins API	✓ Success
Ionicons API	✓ Success
Folders	✓ Success
OWASP Markup Formatter	✓ Success
ASM API	✓ Success
JSON Path API	✓ Success
Structs	✓ 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

Maven installations

Add Maven

≡ Maven

Name

Maven

🔴 Required

☑ Install automatically ?

≡ Install from Apache

Version

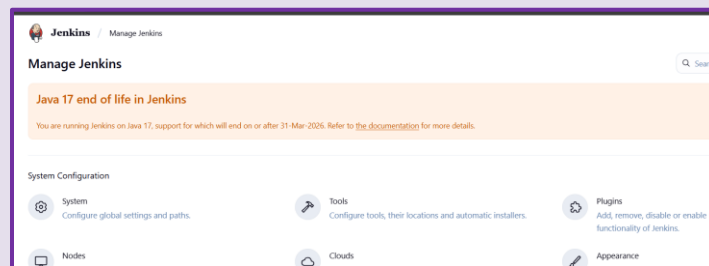3.9.11

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