

**Name – Rachit Shrivastava**

**Sap Id – 500119571**

**Batch 3 – DevOps**

## **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

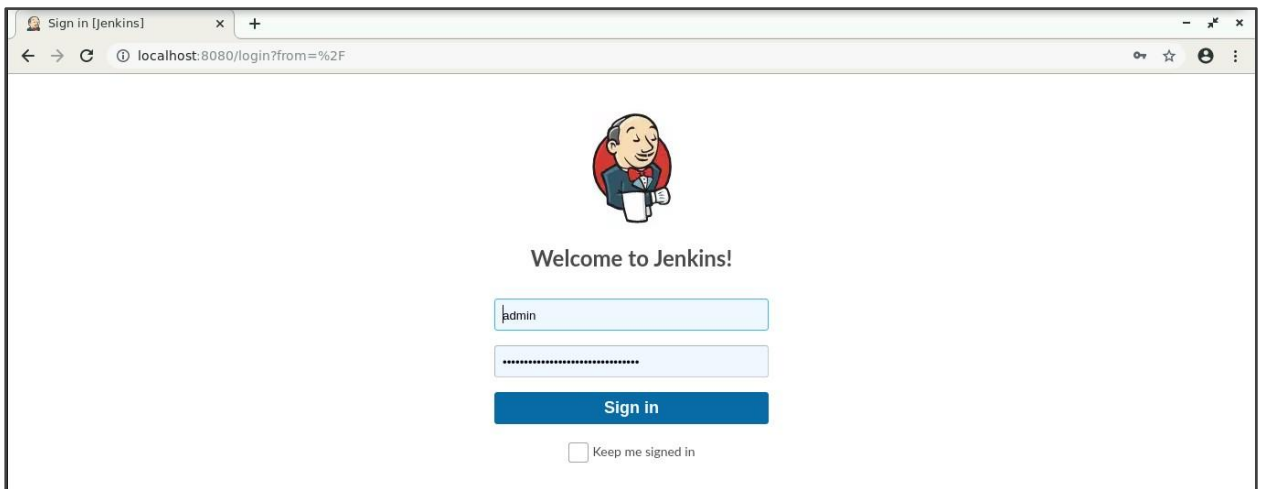
**Prerequisites:** None

Steps to be followed:

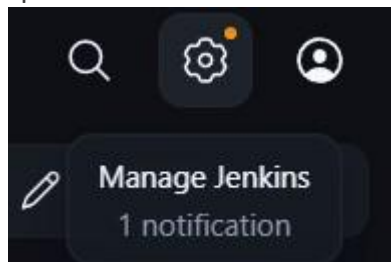
1. Install the Maven plugin
2. Set up Global Tool Configuration
3. Fork a sample repository
4. Integrate Maven with Jenkins

#### **Step 1: Install the Maven plugin**

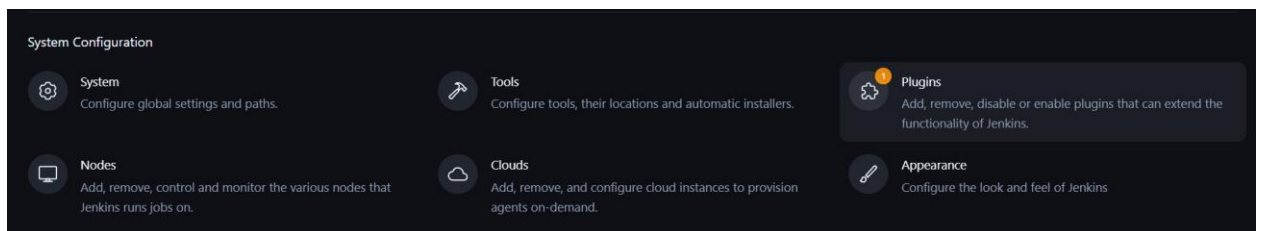
- 1.1 Open the browser, go to the Jenkins Dashboard by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button



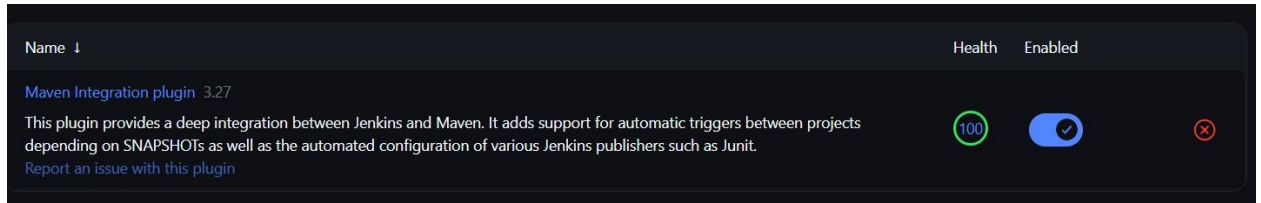
1.2 Click on the **Manage Jenkins** option as shown in the screenshot below:



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.

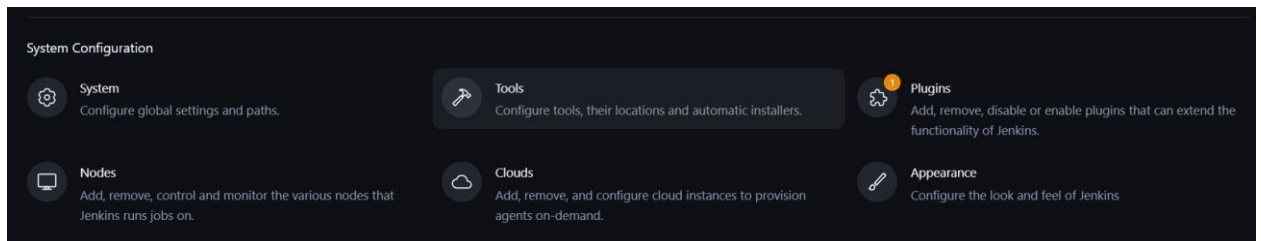
1.5 Use the following command to check the Maven version:

**mvn -version**

```
$ mvn -version
Apache Maven 3.9.9 (8e8579a9e76f7d015ee5ec7bfc97d260186937)
Maven home: C:\maven\mvn
Java version: 17.0.15, vendor: Microsoft, runtime: C:\Program Files\Microsoft\jdk-17.0.15.6-hotspot
Default locale: en_IN, platform encoding: Cp1252
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

Maven installations ^

Edited

Add Maven

≡ Maven

×

Name

MAVEN\_HOME

☒ Install automatically ?

≡ Install from Apache

×

Version

3.9.11

▼

Add Installer ▼

Add Maven