

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

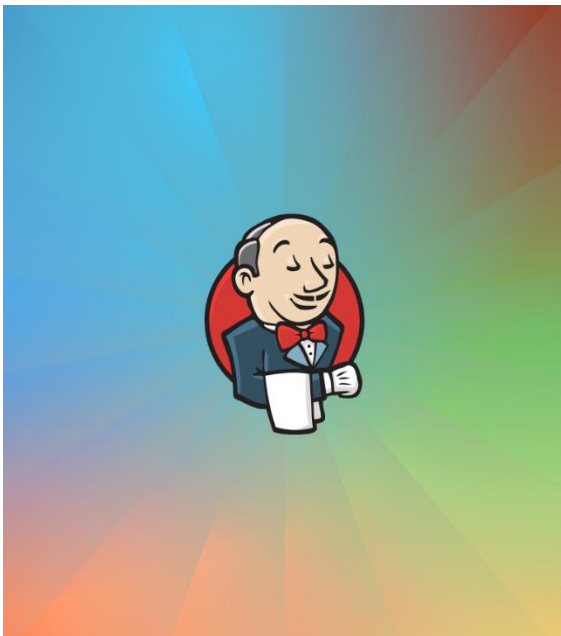
Prerequisites: None

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



Sign in to Jenkins

Username

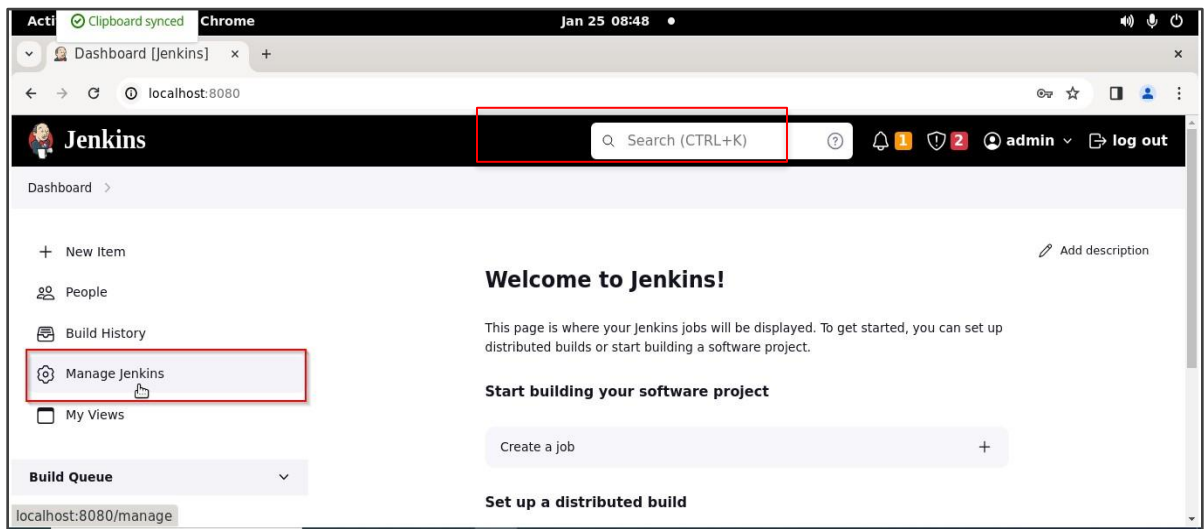
namit53

Password

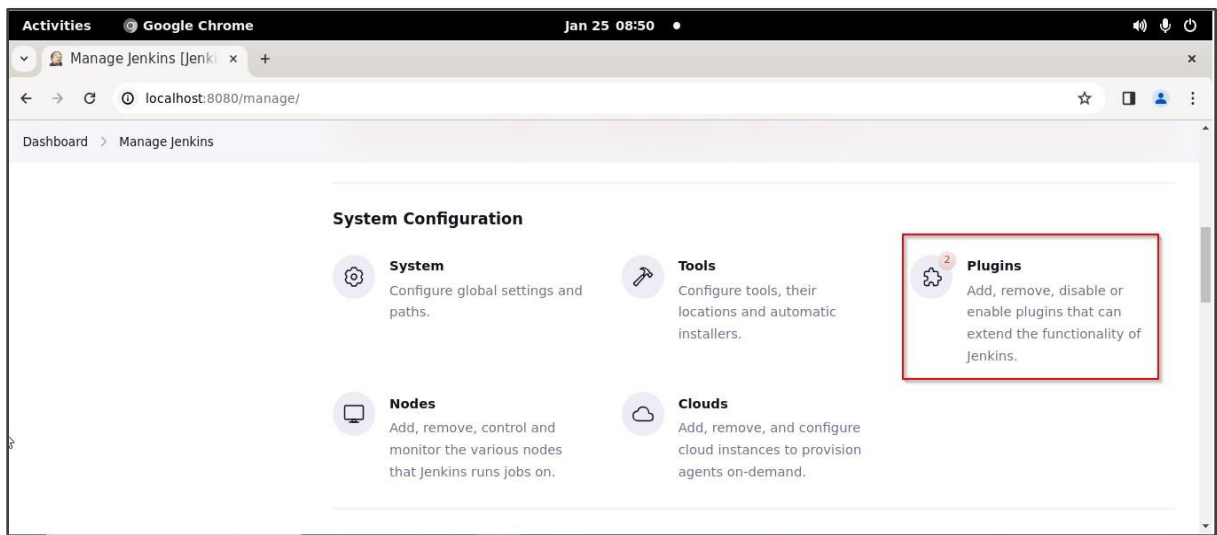
☐ Keep me signed in

Sign in

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

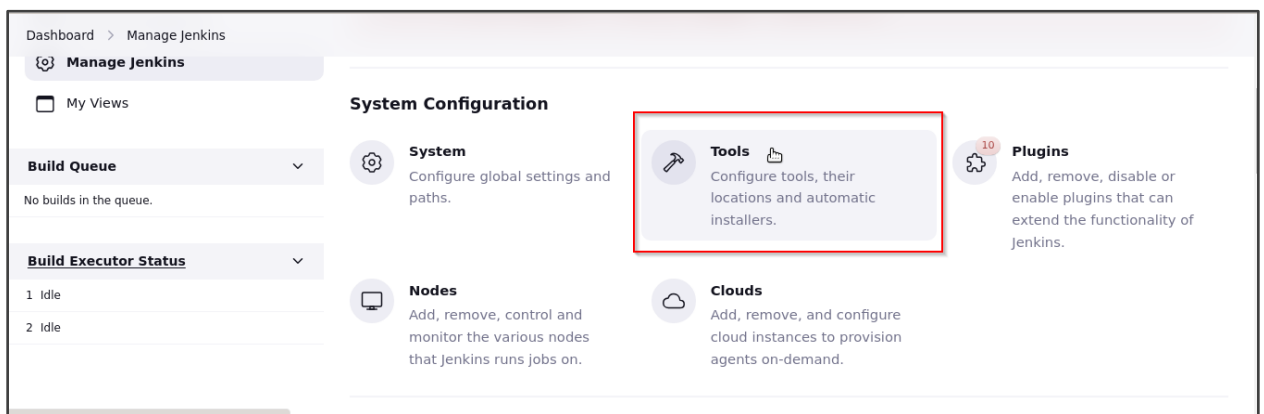
```
Command Prompt
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\namit>mvn -version
Apache Maven 3.9.11 (3e54c93a704957b63ee3494413a2b544fd3d825b)
Maven home: D:\apache-maven-3.9.11-bin\apache-maven-3.9.11
Java version: 17.0.16, vendor: Eclipse Adoptium, runtime: D:\jdk_17
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"

C:\Users\namit>
```

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



Jenkins

/ Manage Jenkins / Tools

Ant installations

Add Ant

Maven installations

Add Maven

≡ Maven

Name

MAVEN_HOME

MAVEN_HOME

D:\apache-maven-3.9.11-bin\apache-maven-3.9.11|

☐ Install automatically ?

Add Maven

Save

Apply