

Lab Exercise 7 - Integrating Maven with Jenkins

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Batch:- DevOps B1

To:- Hitesh Kumar Sharma Sir

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

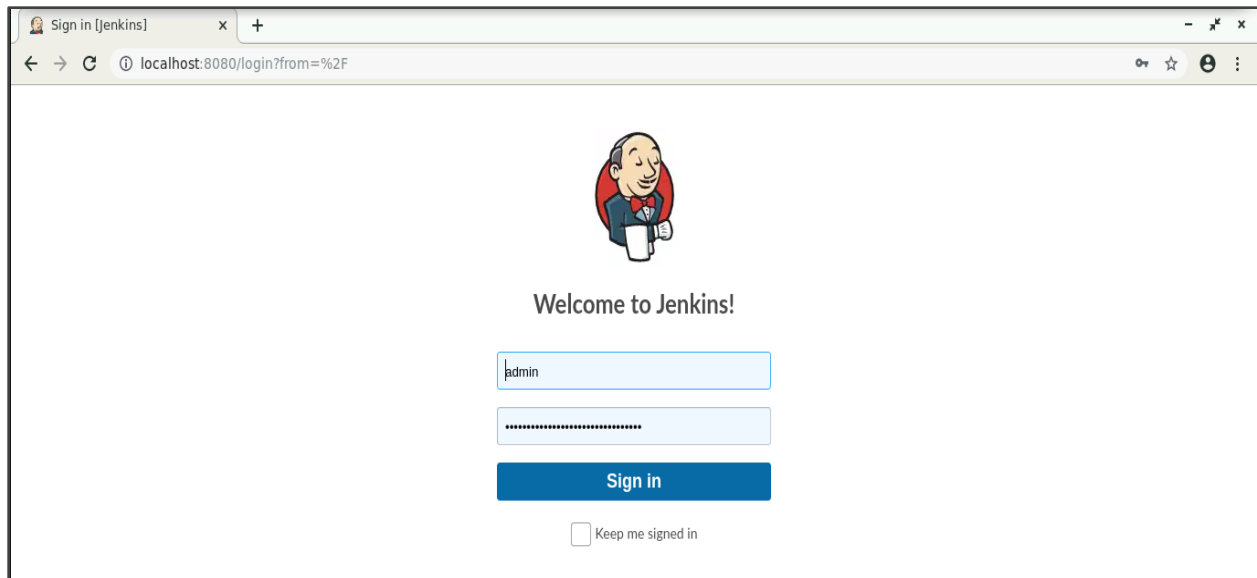
Prerequisites: None

Steps to be followed:

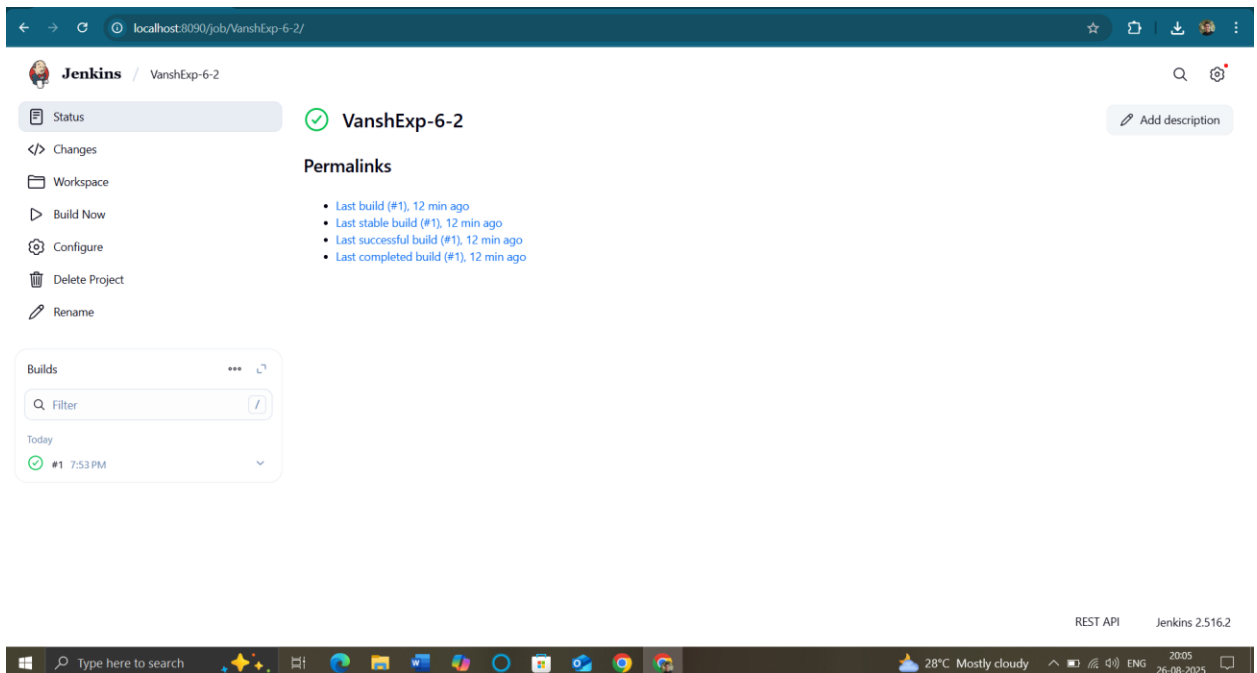
1. Install the Maven plugin
2. Set up Global Tool Configuration
3. Fork a sample repository
4. Integrate Maven with Jenkins

Step 1: Install the Maven plugin

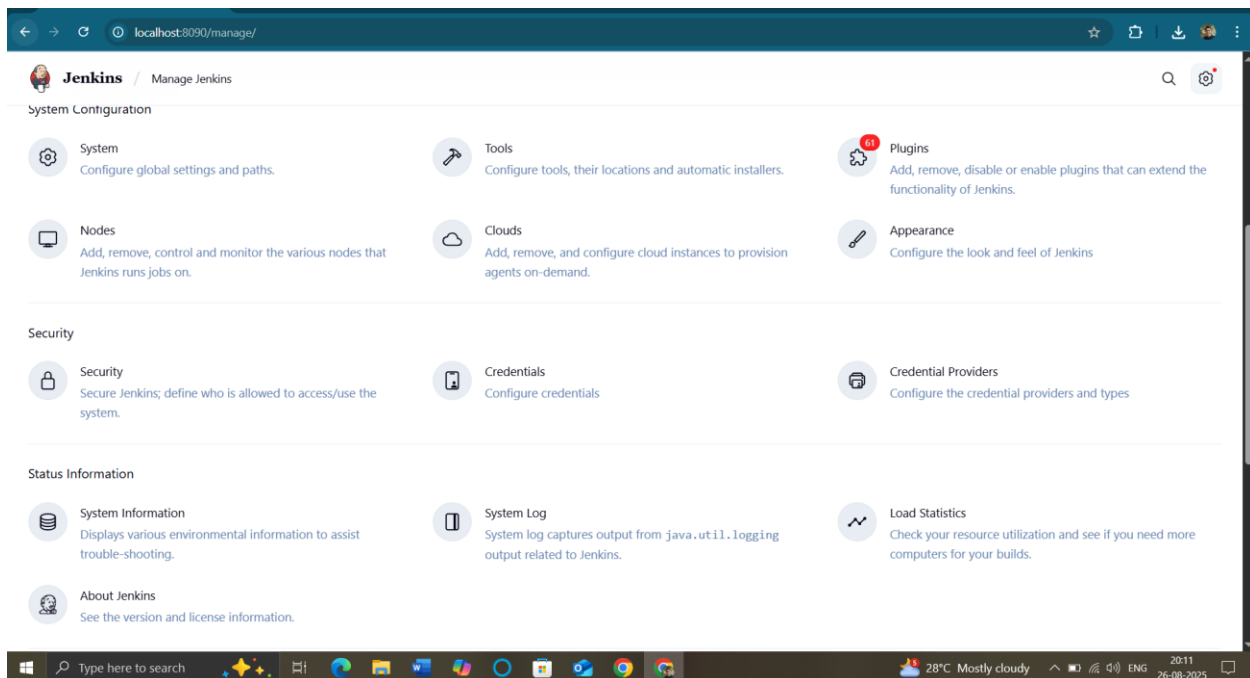
- 1.1 Open the browser, go to the Jenkins Dashboard by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button



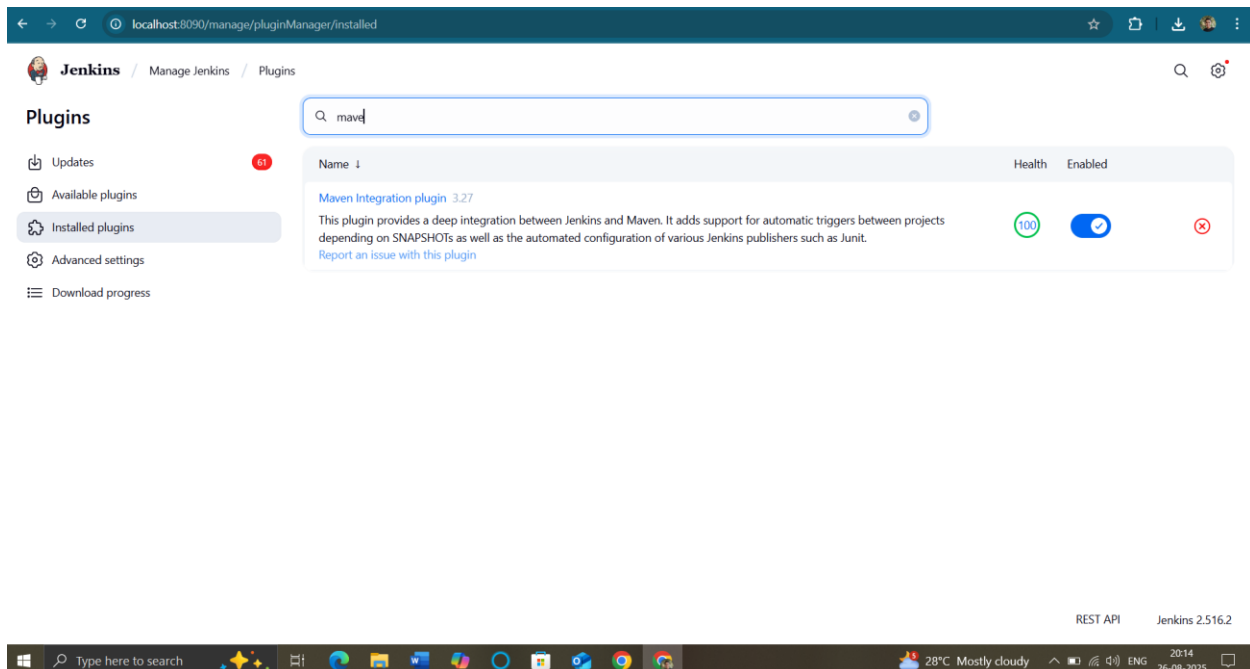
1.2 Click on the **Manage Jenkins** option as shown in the screenshot below:



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



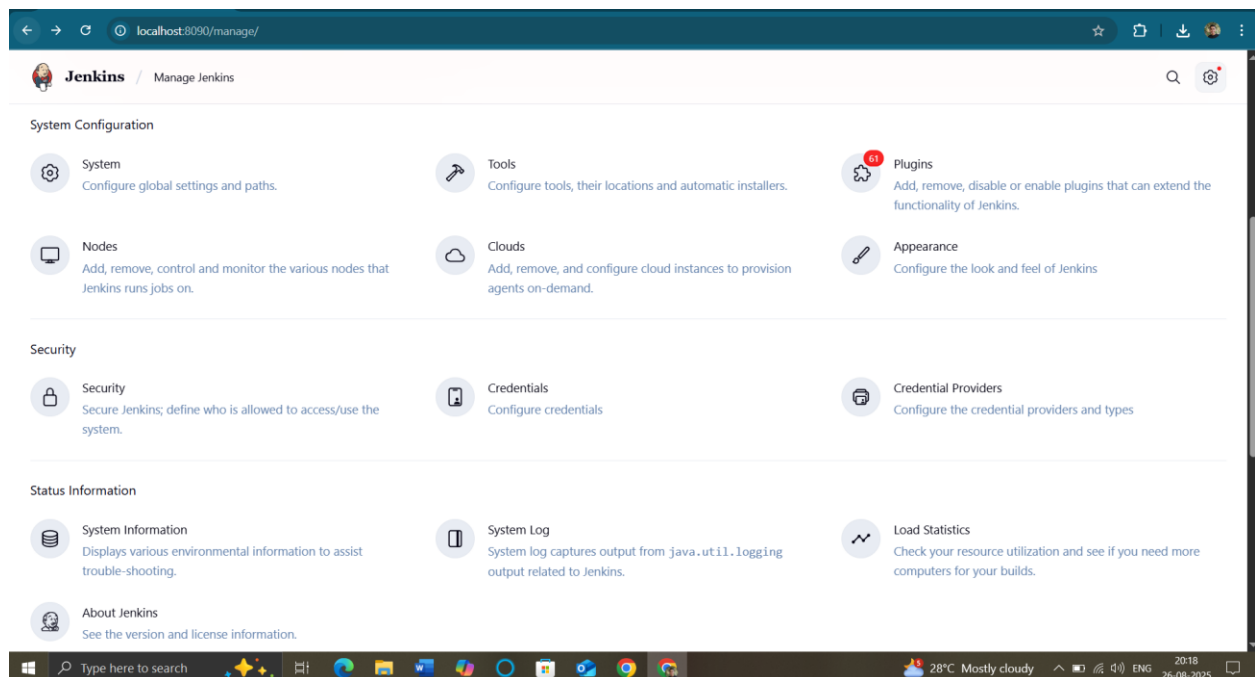
Note: Maven is already installed in your practice lab environment. If not, click on **Available plugins**, search for the Maven Integration plugin, and install it.

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

```
labsuser@ip-172-31-39-225:~$ mvn -version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.21, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.2.0-1018-aws", arch: "amd64", family: "unix"
labsuser@ip-172-31-39-225:~$
```

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

localhost:8090/manage/configureTools/

Jenkins

Manage Jenkins / Tools

Q

Maven installations

Add Maven

Maven

Name

FirstMaven

☒ Install automatically ?

Install from Apache

Version

3.9.11

Add Installer

Add Maven

Save

Apply

Type here to search

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