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

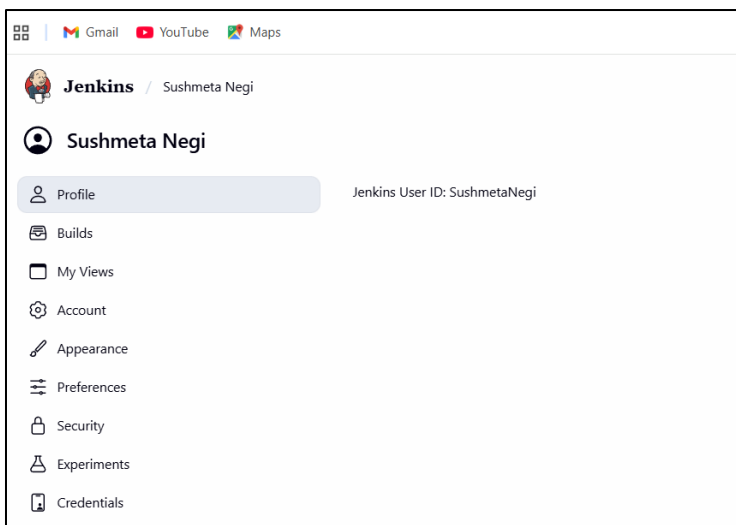**Tools required:** Git, GitHub, and Jenkins
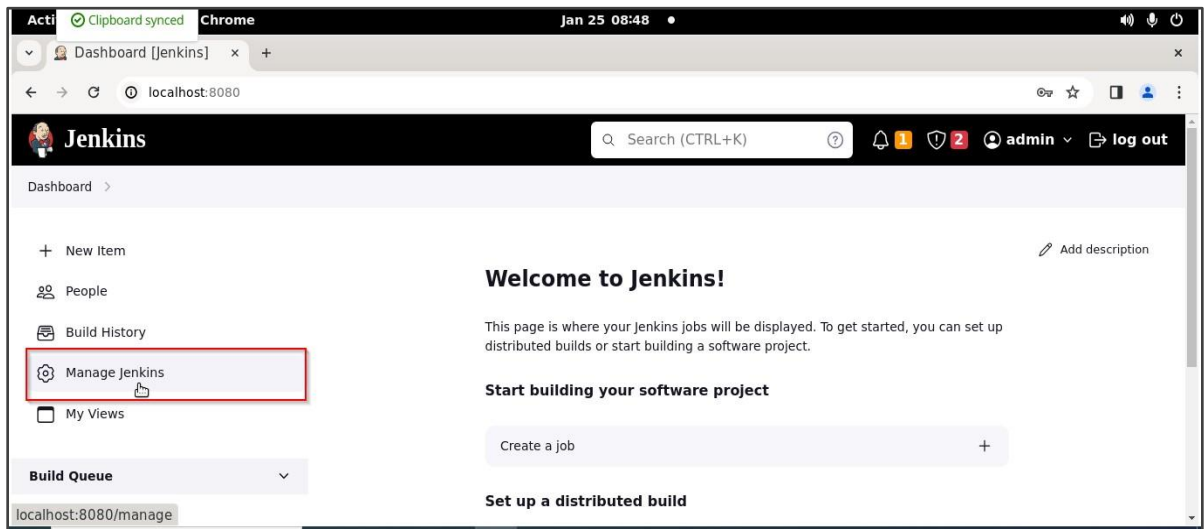
Prerequisites: None

Steps to be followed:

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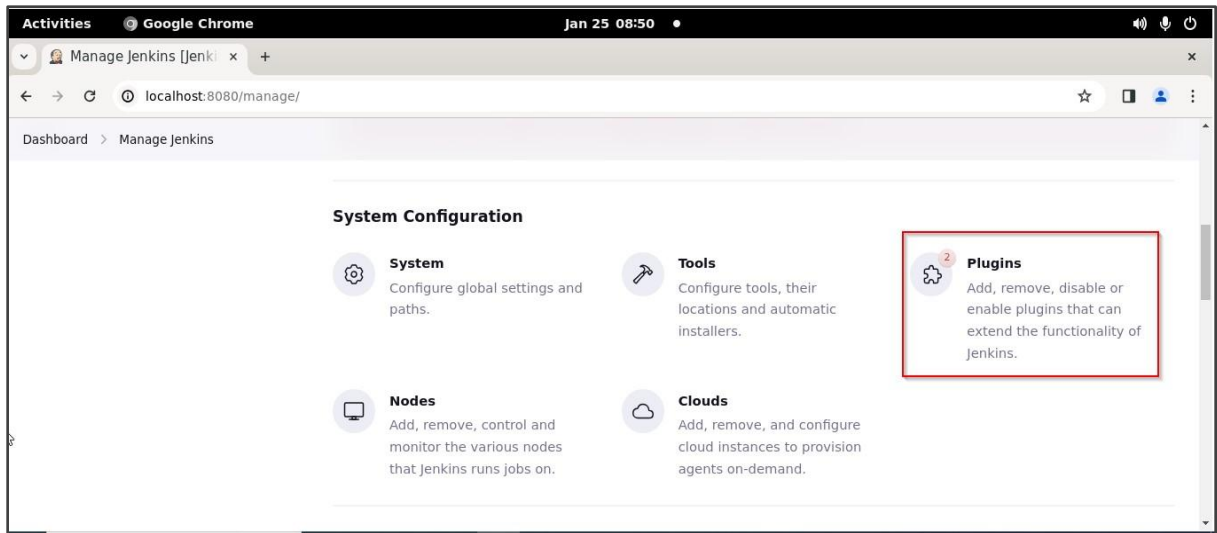4. Integrate Maven with Jenkins

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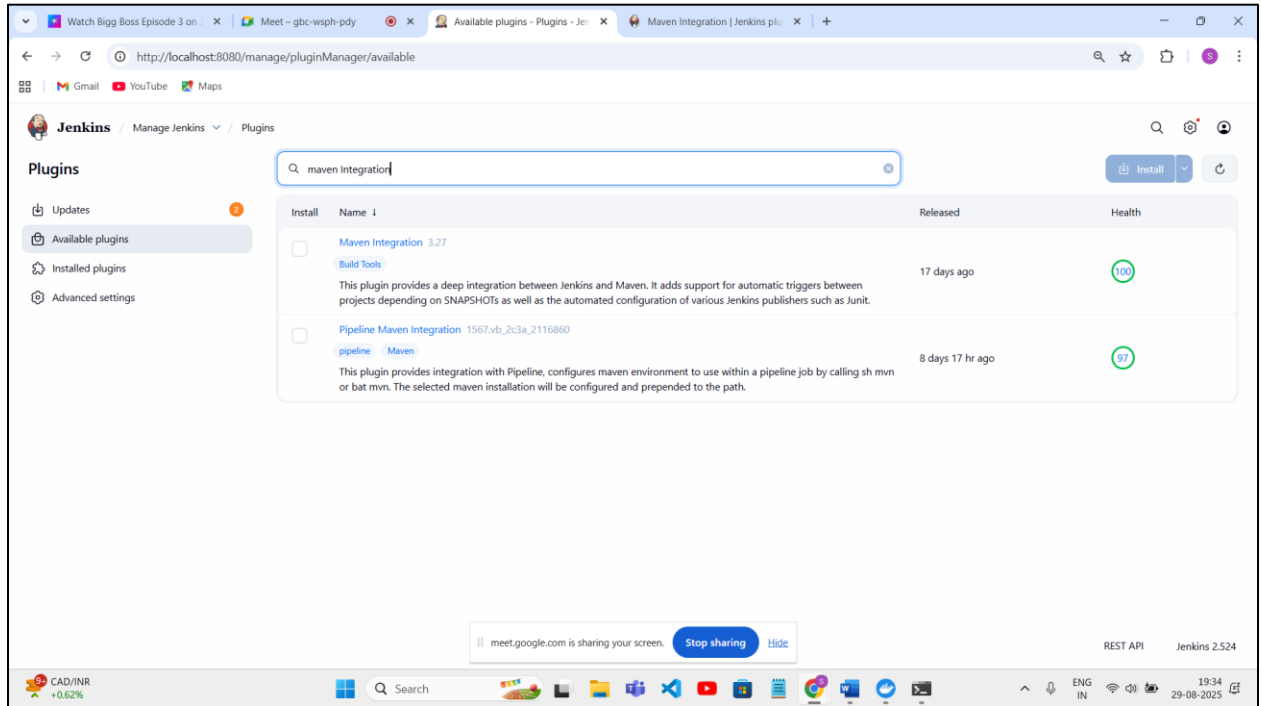
1.2 Click on the **Manage Jenkins** option as shown in the screenshot below:

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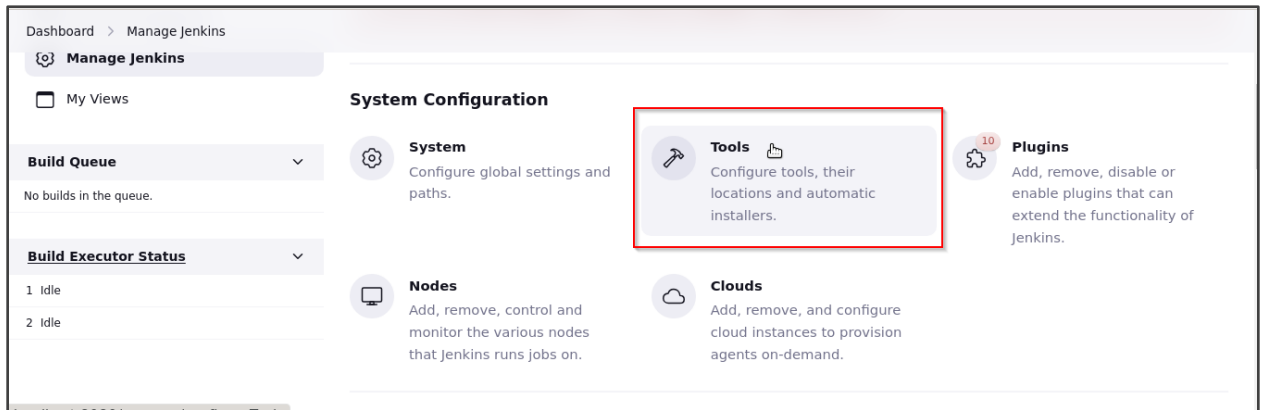
1.5 Use the following command to check the Maven version:
mvn -version

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root@4c67be114138:/# mvn -version
Apache Maven 3.8.7
Maven home: /usr/share/maven
Java version: 21.0.8, vendor: Eclipse Adoptium, runtime: /opt/java/openjdk
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.167.4-microsoft-standard-wsl2", arch: "amd64", family: "unix"
root@4c67be114138:/#
```

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