## 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

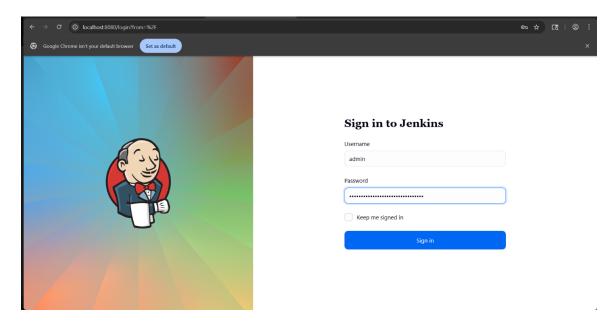
2. SET UP GLOBAL TOOL CONFIGURATION

3. FORK A SAMPLE REPOSITORY

4. INTEGRATE MAVEN WITH JENKINS

## STEP 1: INSTALL THE MAVEN PLUGIN

1. OPEN THE BROWSER, GO TO THE JENKINS DASHBOARD BY TYPING LOCALHOST:8080 IN YOUR BROWSER, PROVIDE THE CREDENTIALS, AND CLICK THE SIGN IN BUTTON



CLICK ON THE MANAGE JENKINS OPTION AS SHOWN IN THE SCREENSHOT BELOW:



3. CLICK ON THE PLUGINS OPTION AS SHOWN IN THE SCREENSHOT BELOW:



4. CLICK ON **INSTALLED PLUGINS** TO VERIFY WHETHER THE **MAVEN INTEGRATION**PLUGIN HAS BEEN INSTALLED



5. Use the following command to check the Maven version: **MVN -VERSION** 

```
devank@DESKTOP-AULU5MH MINGW64 ~

$ mvn -version

Apache Maven Daemon (mvnd) 1.0.2 windows-amd64 native client (cccclec8a5b741c62b29f9fb04d37b1678a029bb)

Terminal: org.jline.terminal.impl.jni.win.NativeWinSysTerminal

Apache Maven 3.9.9 (8e8579a9e76f7d015ee5ec7bfcdc97d260186937)

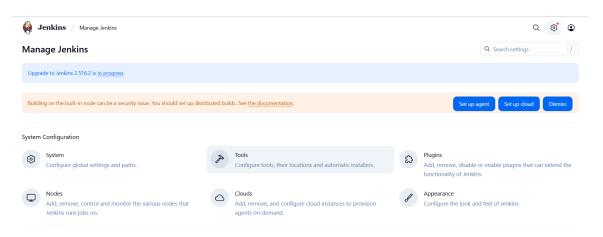
Maven home: C:\Users\devank\Desktop\maven\maven\maven-mvnd-1.0.2-windows-amd64\mvn

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"
```

1. GO TO THE JENKINS DASHBOARD, CLICK ON MANAGE JENKINS, AND THEN SELECT TOOLS FROM THE LIST OF OPTIONS



2. To configure Maven, click on the Maven installations button in the Maven section and enter a Name and MAVEN\_HOME path

