

Lab Exercise 7

Integrating Maven with Jenkins

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Batch 3 DevOps

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

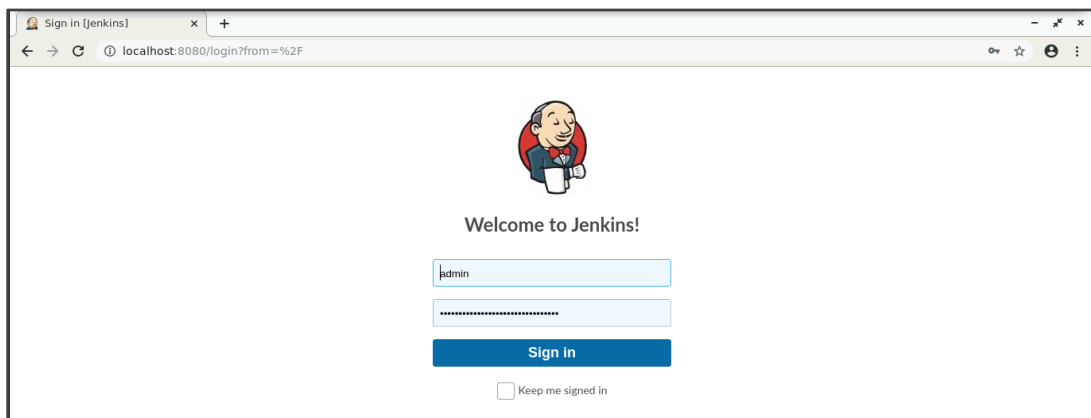
Prerequisites: None

Steps to be followed:

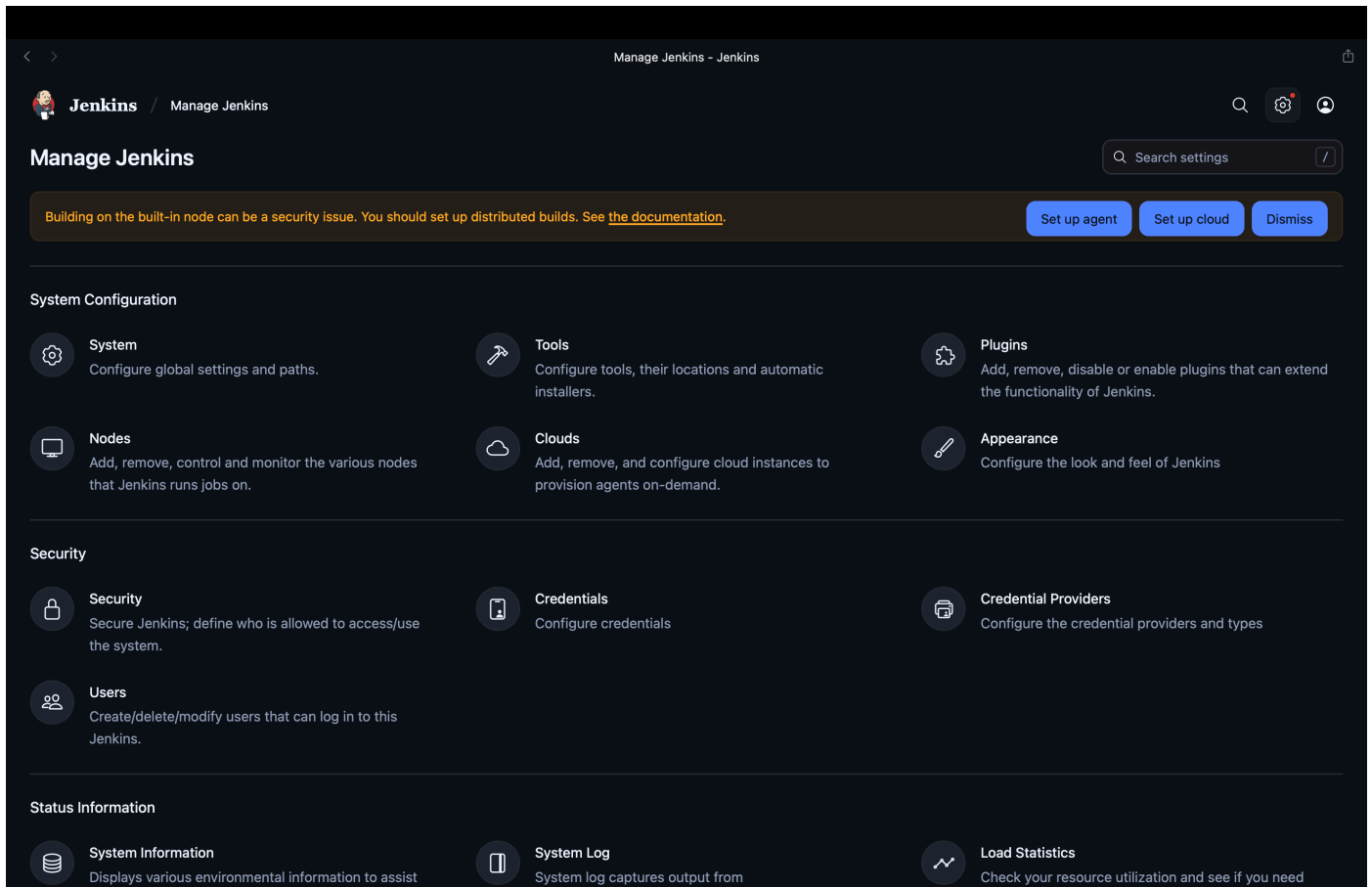
1. Install the Maven plugin
2. Set up Global Tool Configuration
3. Fork a sample repository
4. Integrate Maven with Jenkins

Step 1: Install the Maven plugin

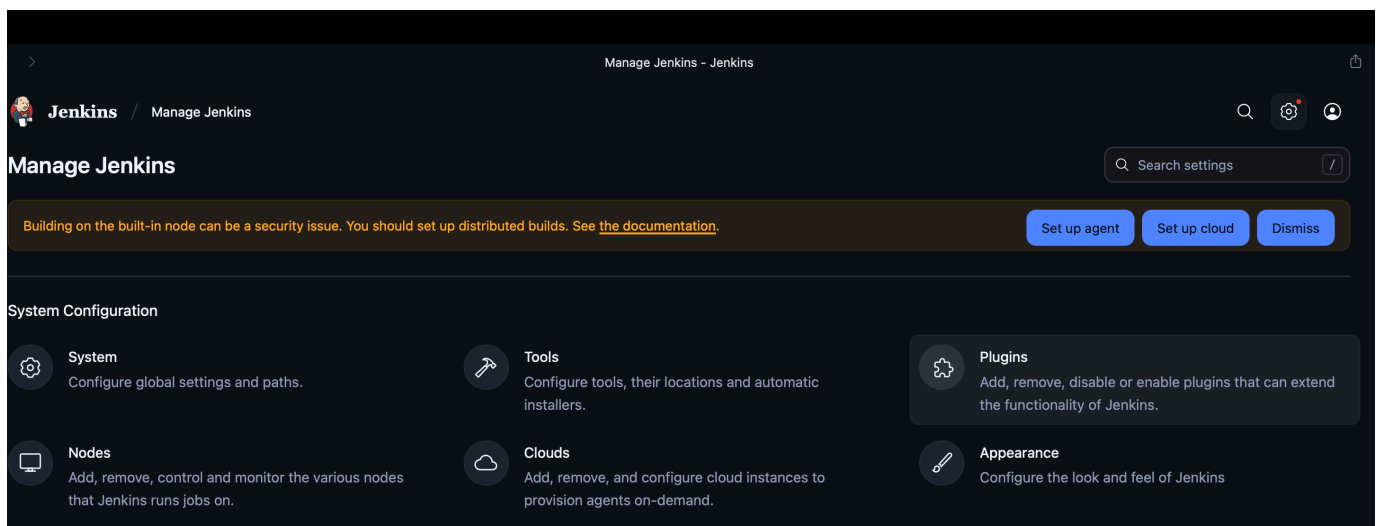
1. Open the browser, go to the Jenkins Dashboard by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button



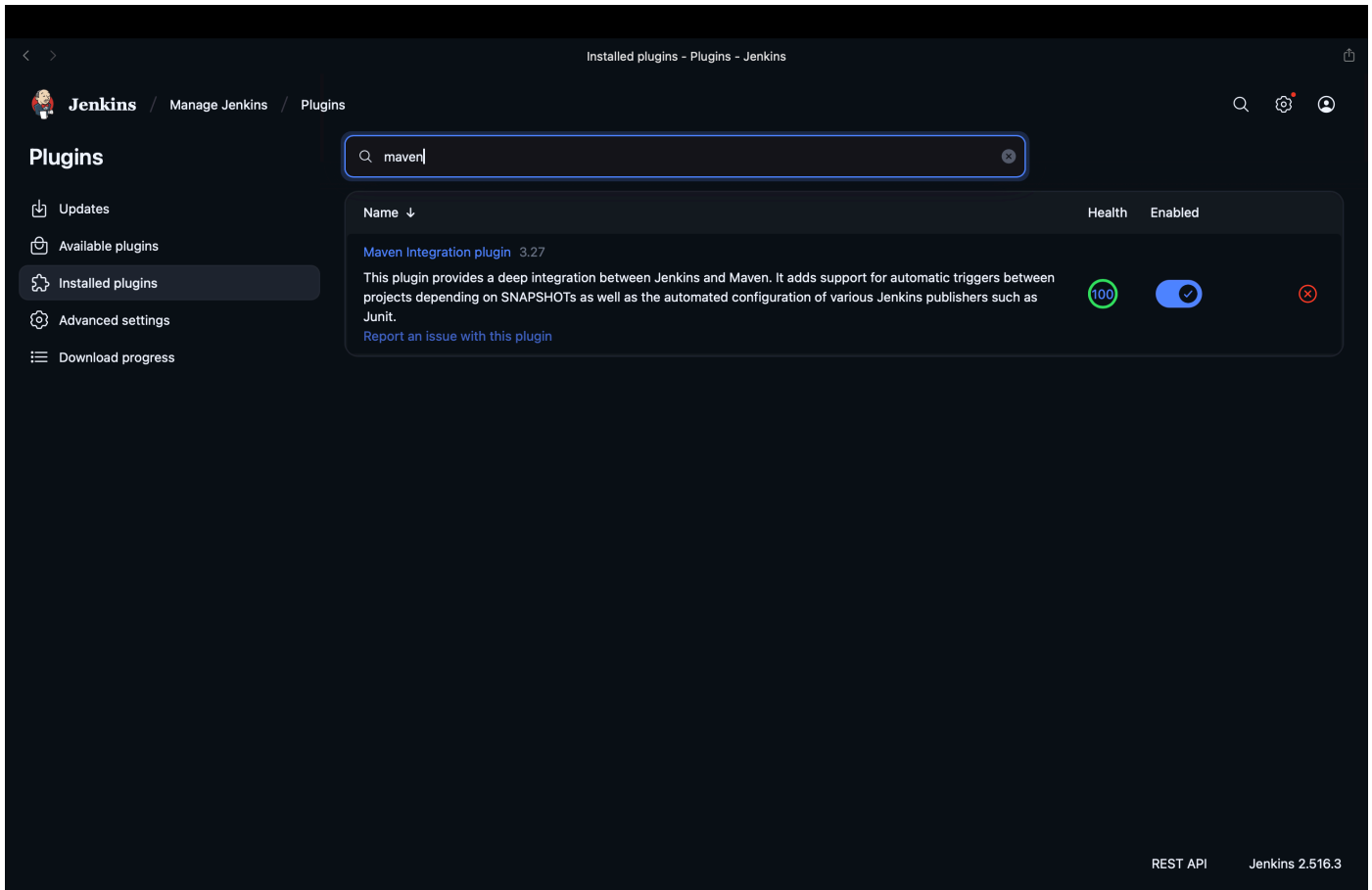
2. Click on the **Manage Jenkins** option as shown in the screenshot below:



3. Click on the **Plugins** option as shown in the screenshot below:



- Click on **Installed plugins** to verify whether the **Maven Integration plugin** has been installed

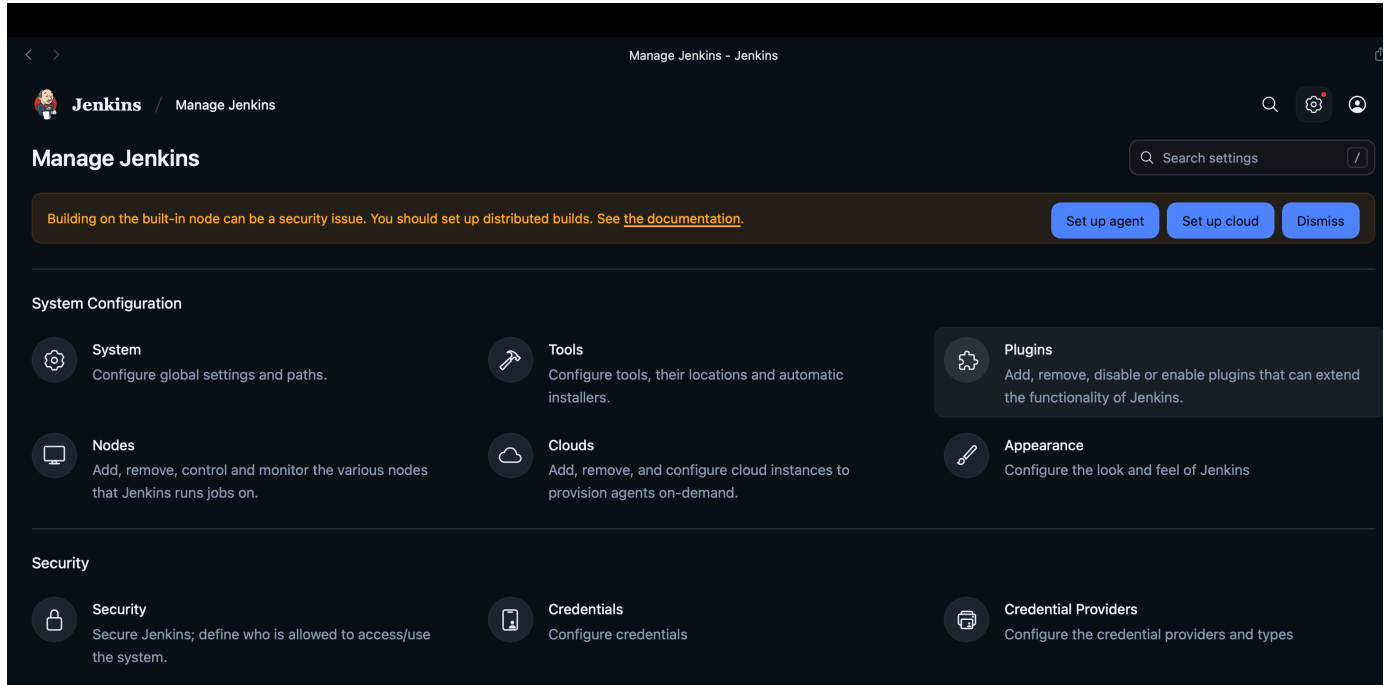


- Use the following command to check the Maven version:
mvn -version

```
pulkit@Pulkits-MacBook-Air ~ % mvn -version
Apache Maven 3.9.11 (3e54c93a704957b63ee3494413a2b544fd3d825b)
Maven home: /opt/homebrew/Cellar/maven/3.9.11/libexec
Java version: 25, vendor: Homebrew, runtime: /opt/homebrew/Cellar/openjdk/25/libexec/openjdk.jdk/Contents/Home
Default locale: en_IN, platform encoding: UTF-8
OS name: "mac os x", version: "15.6.1", arch: "aarch64", family: "mac"
pulkit@Pulkits-MacBook-Air ~ %
```

Step 2: Set up Global Tool Configuration

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

