Jenkins Setup using war file

Step1: Download Jenkins (.war file)

https://www.jenkins.io/download/

Step2: Run below command in the windows command prompt (Don't close command prompt until your work is done

java -jar Jenkins.war

Copy admin password in the note pad (Later we use it).

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`C:\Users\pavan\.jenkins\secrets\initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

| •••••••••••••••••••••••••••••• |

Continue
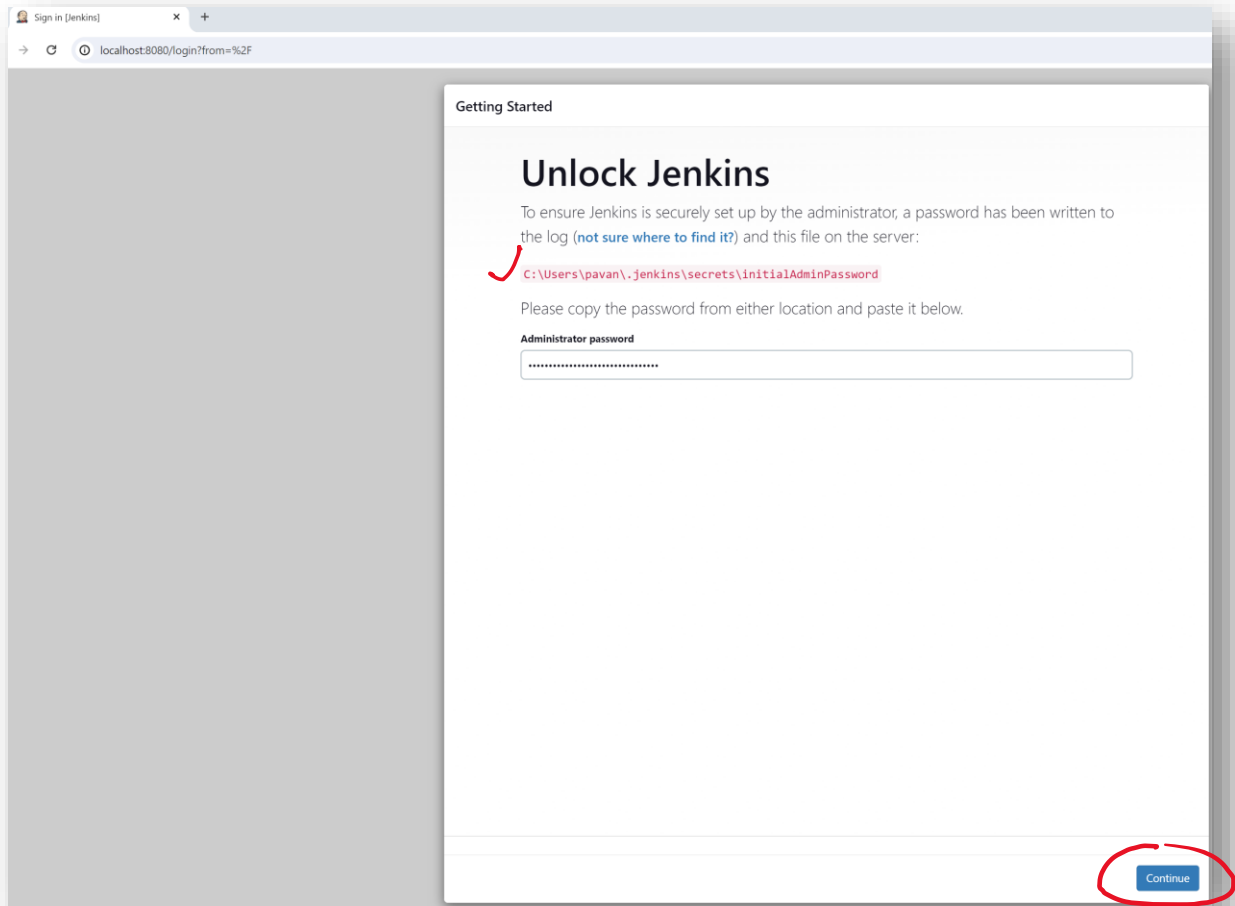
Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins ✓	**Select plugins to install**
Install plugins the Jenkins community finds most useful.	Select and install plugins most suitable for your needs.

Getting Started

✓ Folders	○ OWASP Markup Formatter	○ Build Timeout	○ Credentials Binding	** Ionicons API **Folders**
○ Timestamper	↻ Workspace Cleanup	○ Ant	↻ Gradle	
↻ Pipeline	↻ GitHub Branch Source	↻ Pipeline: GitHub Groovy Libraries	↻ Pipeline: Stage View	
○ Git	○ SSH Build Agents	↻ Matrix Authorization Strategy	○ PAM Authentication	
○ LDAP	↻ Email Extension	○ Mailer	○ Dark Theme	

Create First Admin User

Username

admin

Password

•••••

Confirm password

•••••

Full name

Admin

E-mail address

pavanoltraining@gmail.com

Skip and continue as admin   **Save and Continue**

Instance Configuration

Jenkins URL:

http://localhost:8080/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Jenkins 2.440.3

Not now   Save and Finish

Here you can see Jenkins dashboard.
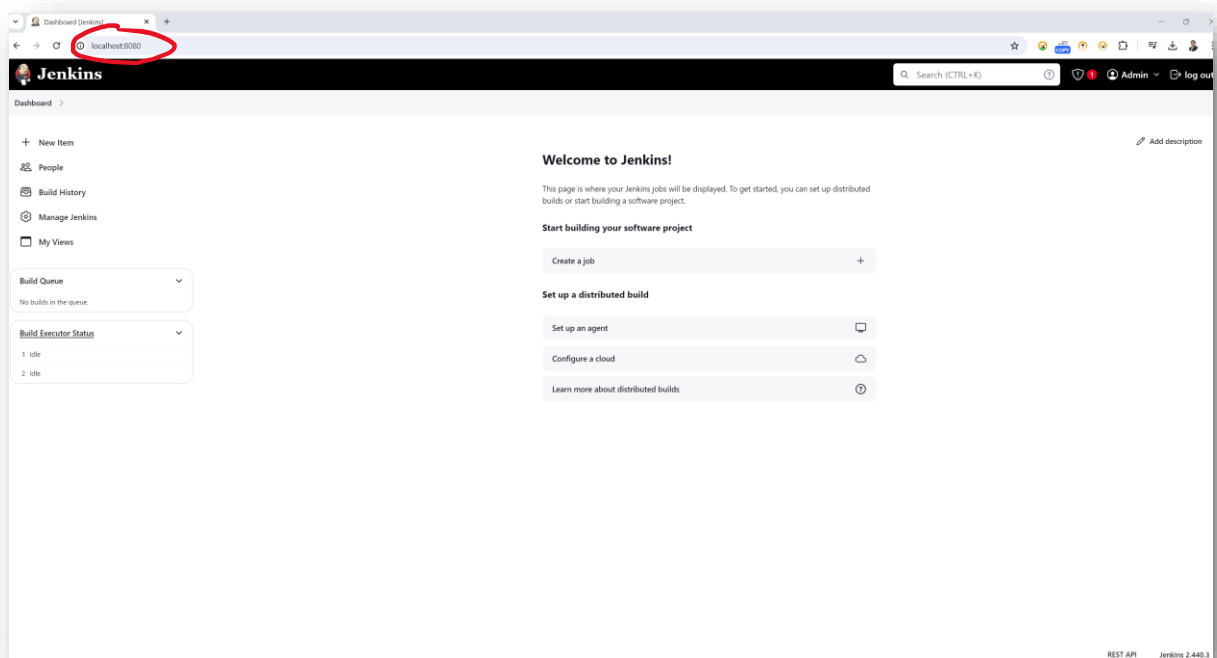
Install Maven Plugin

Manage Jenkins→ Plugins (under System configuration) →Available Plugins→ Select Maven Integration→Install.
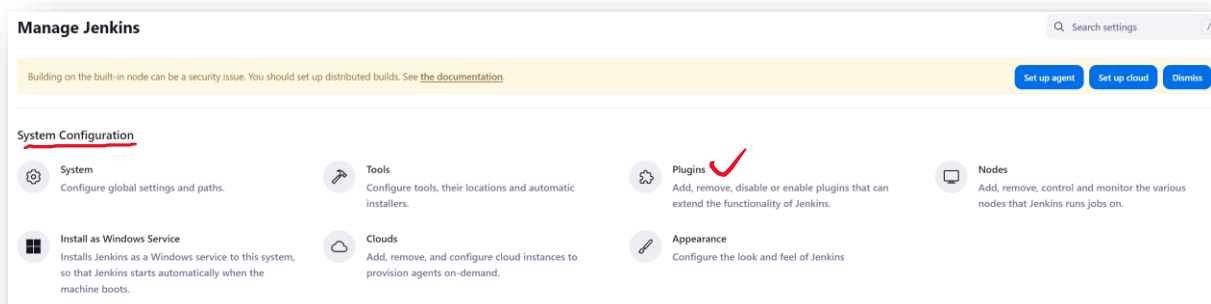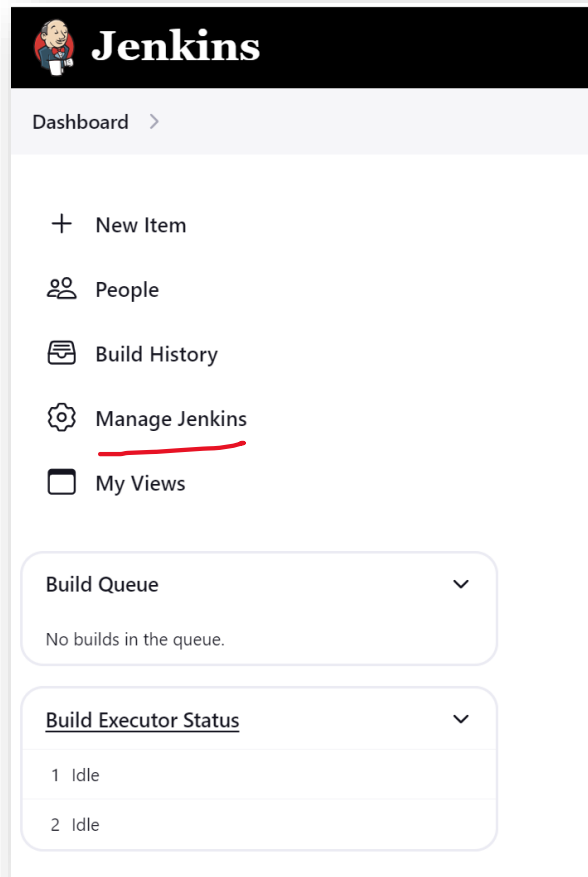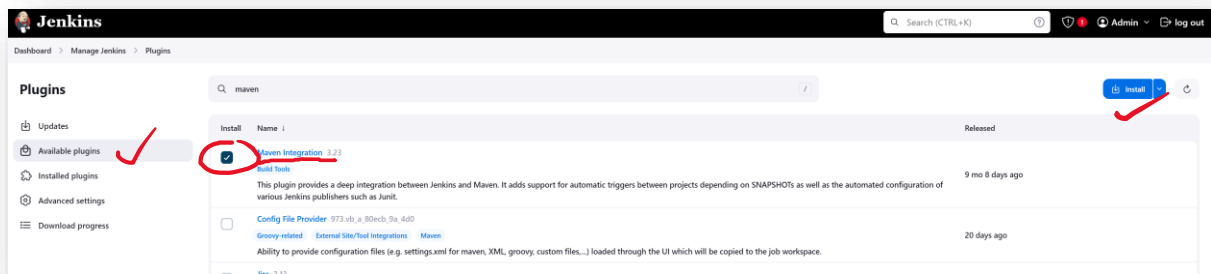
Download progress

Preparation
- Checking internet connectivity
- Checking update center connectivity
- Success

Ionicons API	✓ Success
Folders	✓ Success
OWASP Markup Formatter	✓ Success
ASM API	✓ Success
JSON Path API	✓ Success
Structs	✓ Success
Pipeline: Step API	✓ Success
Token Macro	✓ Success
Build Timeout	✓ Success
Credentials	✓ Success
Plain Credentials	✓ Success
Variant	✓ Success
SSH Credentials	✓ Success
Credentials Binding	✓ Success

Configuring JDK, Maven & Git Path's in Jenkins

Dashboard→Manage Jenkins→ Tools
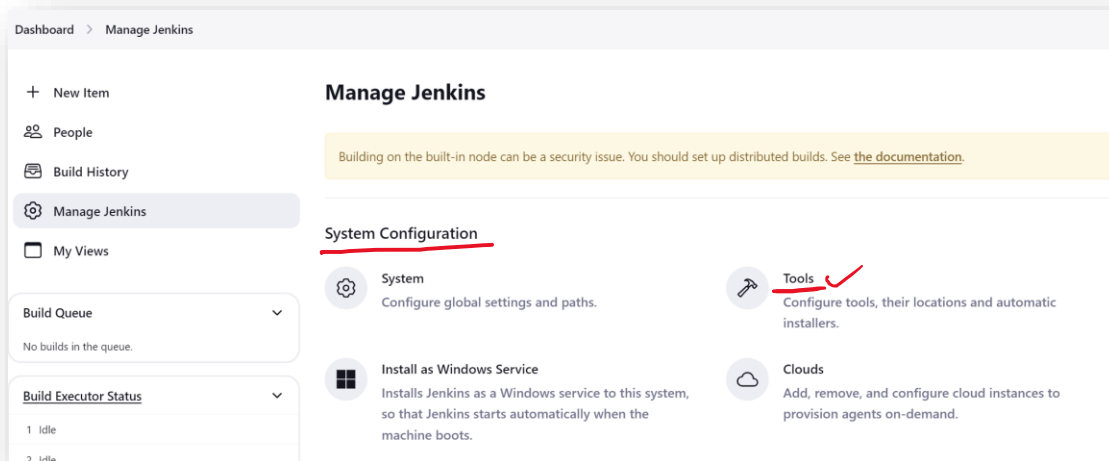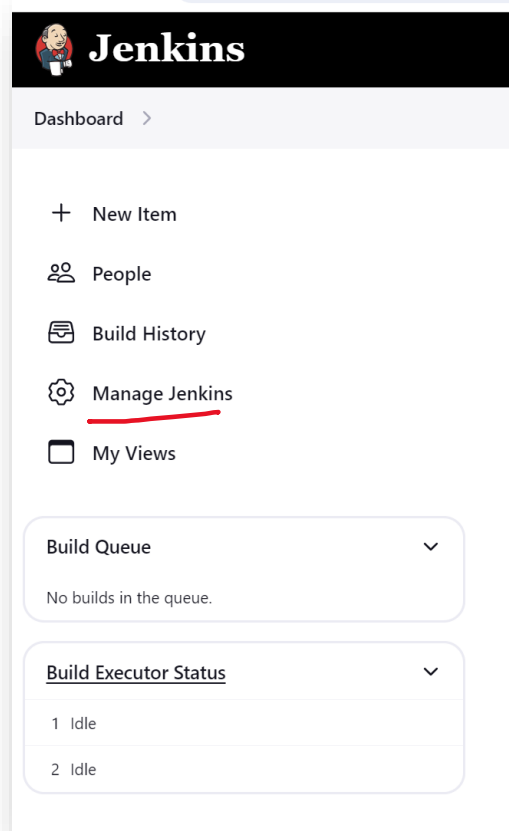
Add JDK

JDK installations

Add JDK

≡ **JDK**

Name

MyJava

JAVA_HOME

C:\Program Files\Java\jdk-17

Add Git

Git installations

≡ **Git**

Name

MyGit

Path to Git executable ?

C:\Program Files\Git\bin\git.exe

Add Maven

Maven installations

Add Maven

☰ **Maven**

Name

MyMaven

MAVEN_HOME

C:\Program Files\apache-maven-3.9.6

Tools

Maven Configuration

Default settings provider

Use default maven settings

Default global settings provider

Use default maven global settings

JDK installations

Add JDK

☰ JDK

Name

MyJava

JAVA_HOME

C:\Program Files\Java\jdk-17

☐ Install automatically ?

Add JDK

Git installations

☰ Git

Name

MyGit

Path to Git executable ?

C:\Program Files\Git\bin\git.exe

☐ Install automatically ?

Add Git ⌄

Gradle installations

Add Gradle

Ant installations

Add Ant

Maven installations

Add Maven

☰ Maven

Name

MyMaven

MAVEN_HOME

C:\Program Files\apache-maven-3.9.6

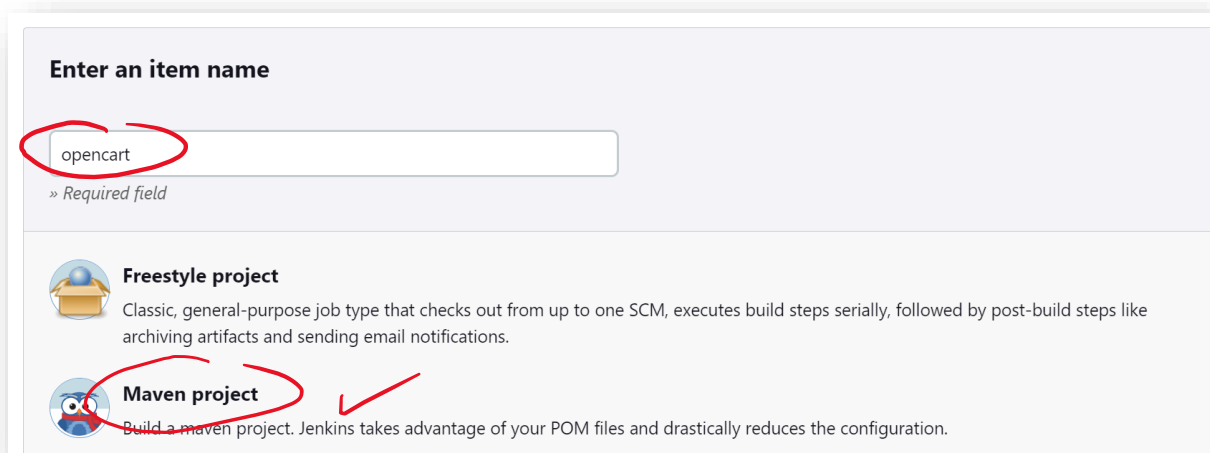☐ Install automatically ?

Save   Apply

Save   Apply

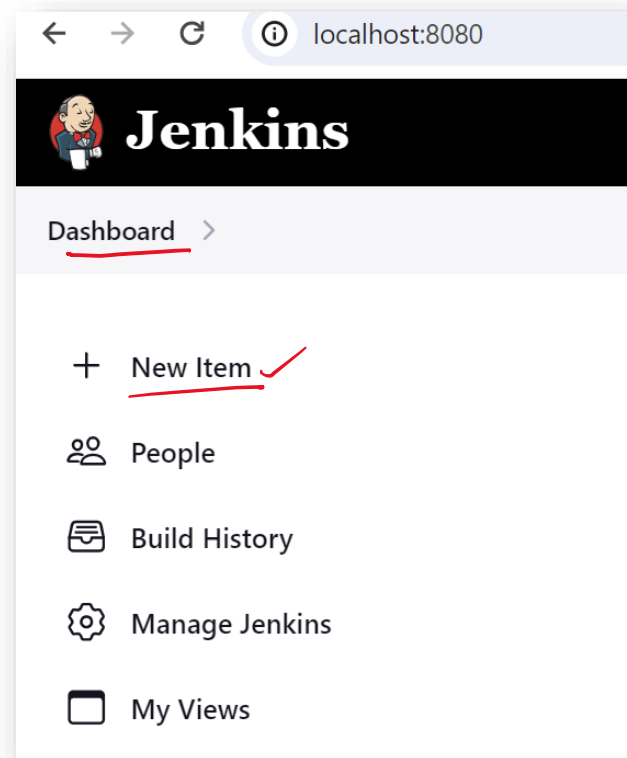# How to Run GitHub Maven project in Jenkins

Dashboard→New Item→ Provide Name → Select Maven Project →Ok

Navigate to Configuration Page...

Source Code Management

○ None

● Git ?

Repositories ?

Repository URL ?

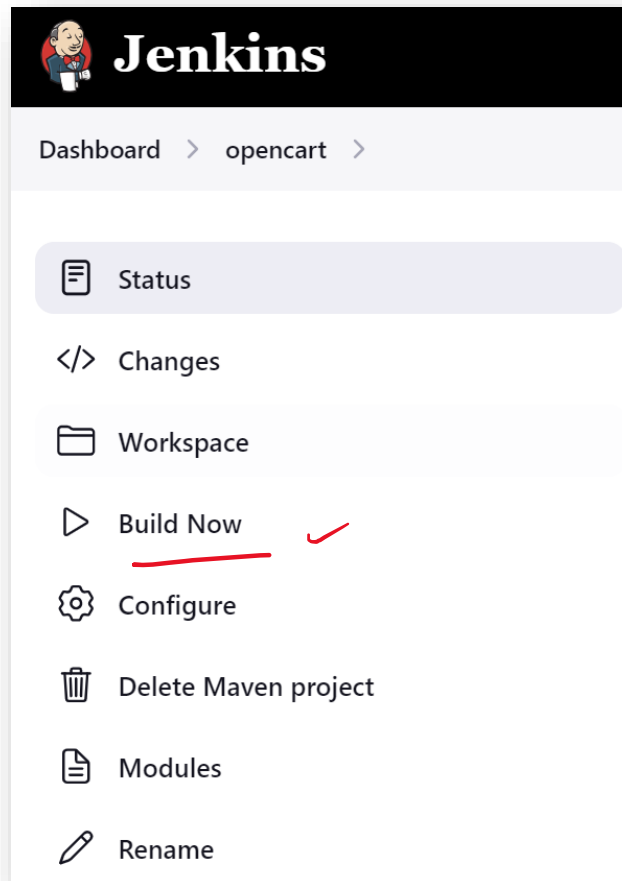https://github.com/pavanoltraining/OpencartV121.git

Build

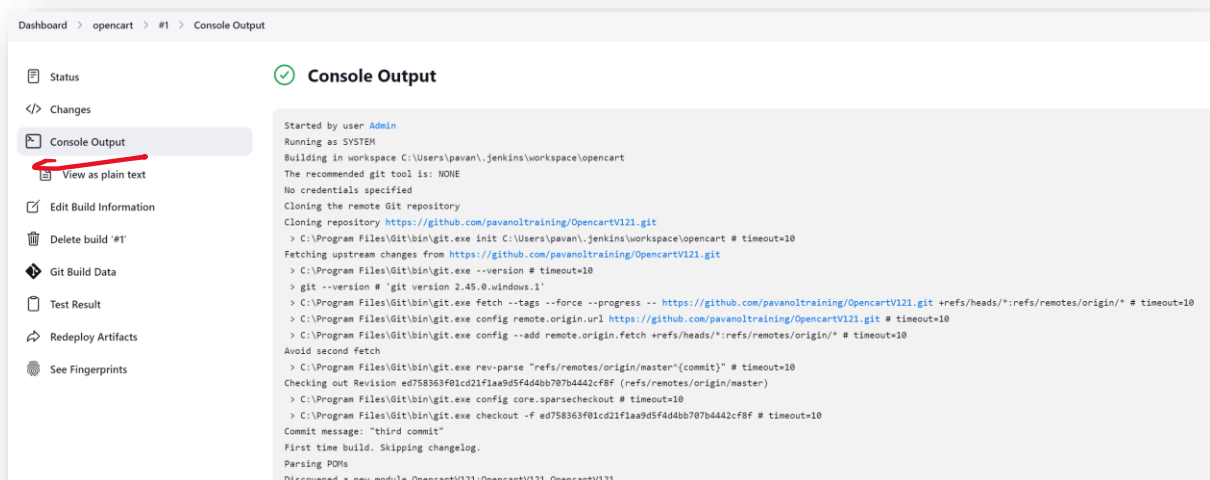**Root POM** ?

pom.xml

Goals and options ?

test

Save   Apply

Go to Dashboard→Build Now.

See the console logs in execution..

```
[JENKINS] Recording test results
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  26.635 s
[INFO] Finished at: 2024-05-09T12:05:47+05:30
[INFO] ------------------------------------------------------------------------
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\pavan\.jenkins\workspace\opencart\pom.xml to OpencartV121/OpencartV121/0.0.1-SNAPSHOT/OpencartV121-0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```