

✓ Jenkins Job Explanation: Assignment02

You've successfully configured and run a Jenkins job named **Assignment02** to automate building a Maven-based Java project from your GitHub repository. Here's a breakdown of each step based on the screenshots:

🔄 STEP 1: Create a New Job in Jenkins

1. Navigate to Jenkins dashboard.
2. Click on “**New Item**”.
3. Enter the name: **Assignment02**.
4. Select “**Freestyle project**” and click **OK**.

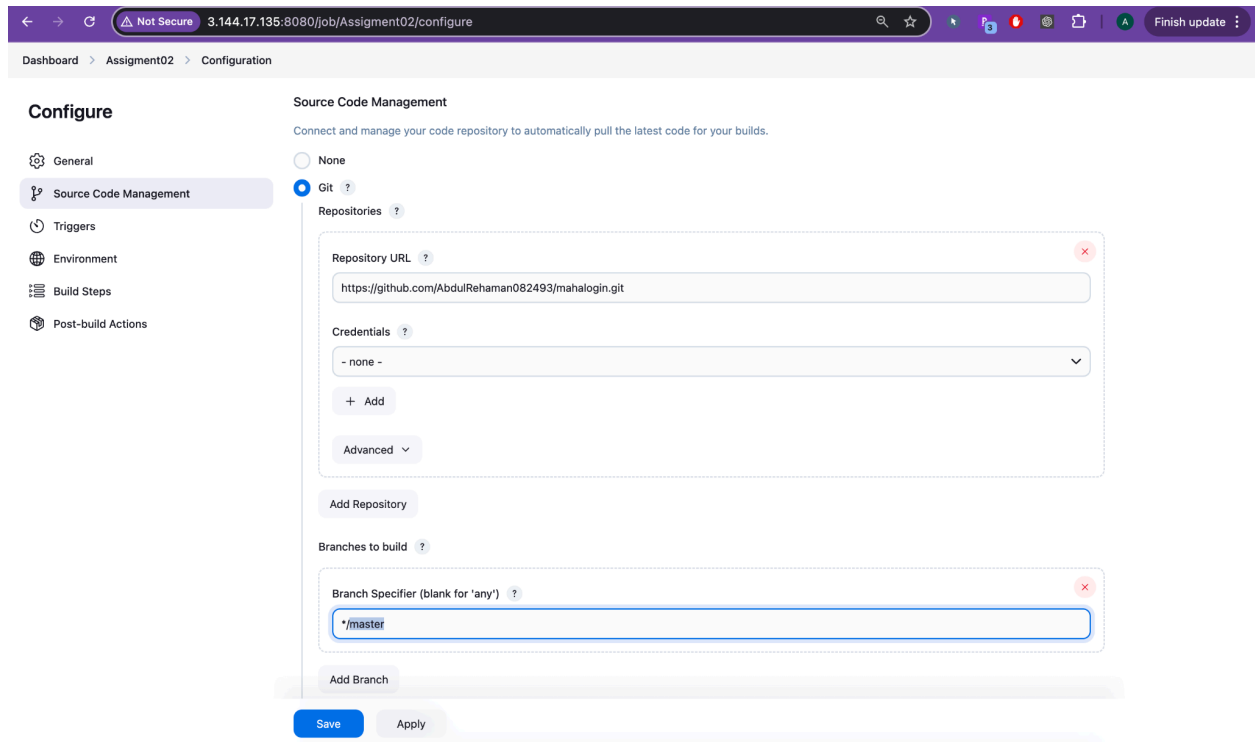
🔧 STEP 2: Configure GitHub Repository (Source Code Management)

Location: **Configure > Source Code Management**

1. Select Git.
2. In Repository URL, enter: <https://github.com/AbdulRehaman082493/mahallogin.git>
3. Leave Credentials as - **none** - (because it's a public repo).
4. In Branches to build, enter:

*/master

This means Jenkins will track the **master** branch.



STEP 3: Add Build Step Using Maven

Location: **Configure > Build Steps**

1. Click Add build step → Invoke top-level Maven targets.
2. In Goals, type:

clean install

This command:

- Deletes the **target/** folder.
- Compiles the project.
- Runs tests.
- Packages and installs the **.war** file locally.

Dashboard > Assignment02 > Configuration

Configure

- General
- Source Code Management
- Triggers
- Environment**
- Build Steps
- Post-build Actions

☐ Add timestamps to the Console Output

☐ Inspect build log for published build scans

☐ Terminate a build if it's stuck

☐ With Ant ?

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

Invoke top-level Maven targets ?

Goals

clean install

Advanced

Add build step

Post-build Actions

Define what happens after a build completes, like sending notifications, archiving artifacts, or triggering other jobs.

Add post-build action

Save Apply

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STEP 4: (Optional) Add Post-Build Actions

You can add email notifications, artifact archiving, deployment steps, etc.

1. Click **Add post-build action**.
2. Choose what fits your pipeline (not configured in your current setup).

STEP 5: Save and Run the Job

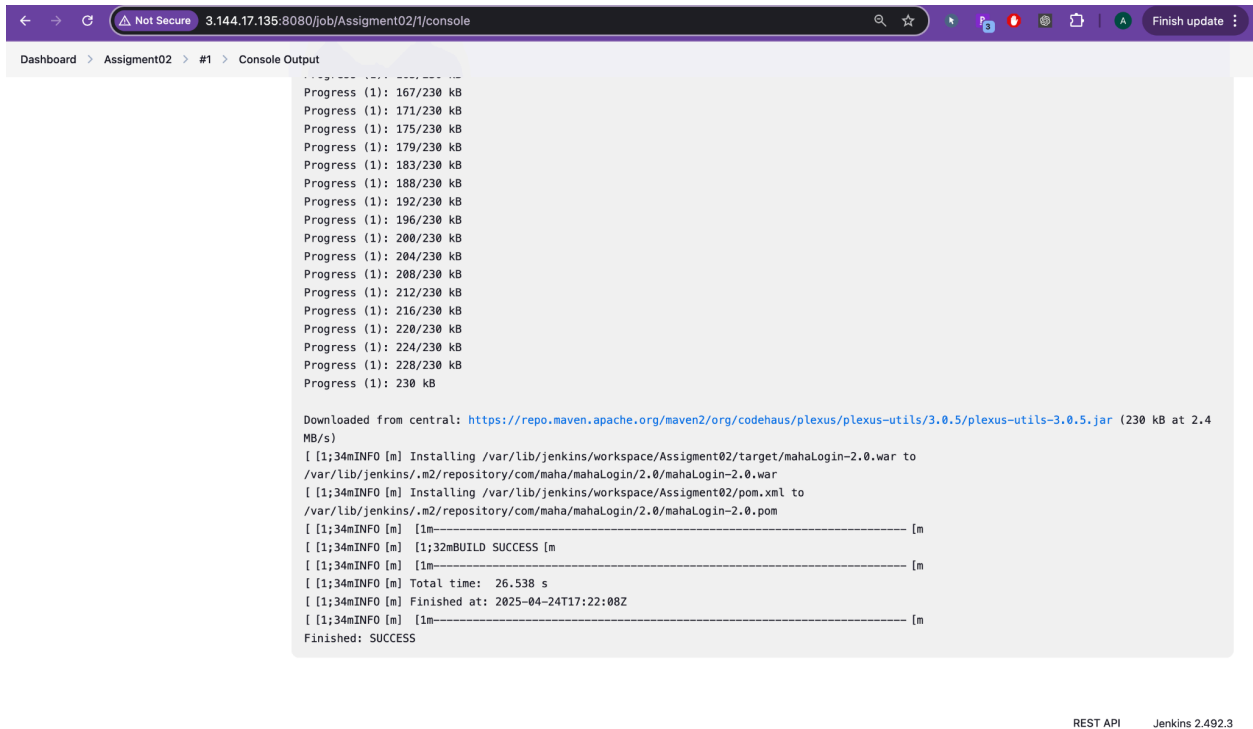
1. Click **Save**.
2. On the job page, click **Build Now**.

STEP 6: Review the Console Output

Location: Assignment02 > #1 > Console Output

- This shows Maven downloading dependencies, compiling code, and creating the **.war** file:

Installing /var/lib/jenkins/workspace/Assignment02/target/mahaLogin-2.0.war
BUILD SUCCESS



The screenshot shows the Jenkins web interface with the console output for a build. The browser address bar shows '3.144.17.135:8080/job/Assignment02/1/console'. The breadcrumb navigation is 'Dashboard > Assignment02 > #1 > Console Output'. The console output displays Maven progress bars for downloading dependencies, followed by log messages indicating the installation of the war file and the successful completion of the build.

```
Progress (1): 167/230 kB
Progress (1): 171/230 kB
Progress (1): 175/230 kB
Progress (1): 179/230 kB
Progress (1): 183/230 kB
Progress (1): 188/230 kB
Progress (1): 192/230 kB
Progress (1): 196/230 kB
Progress (1): 200/230 kB
Progress (1): 204/230 kB
Progress (1): 208/230 kB
Progress (1): 212/230 kB
Progress (1): 216/230 kB
Progress (1): 220/230 kB
Progress (1): 224/230 kB
Progress (1): 228/230 kB
Progress (1): 230 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar (230 kB at 2.4 MB/s)
[1;34mINFO [m] Installing /var/lib/jenkins/workspace/Assignment02/target/mahaLogin-2.0.war to
/var/lib/jenkins/.m2/repository/com/maha/mahaLogin/2.0/mahaLogin-2.0.war
[1;34mINFO [m] Installing /var/lib/jenkins/workspace/Assignment02/pom.xml to
/var/lib/jenkins/.m2/repository/com/maha/mahaLogin/2.0/mahaLogin-2.0.pom
[1;34mINFO [m] [1m-----[m
[1;34mINFO [m] [1;32mBUILD SUCCESS [m
[1;34mINFO [m] [1m-----[m
[1;34mINFO [m] Total time: 26.538 s
[1;34mINFO [m] Finished at: 2025-04-24T17:22:08Z
[1;34mINFO [m] [1m-----[m
Finished: SUCCESS
```

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Not Secure

3.144.17.135:8080/job/Assignment02/1/

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Abdul Rehaman Shaik

Finish update

⋮

 **Jenkins**

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Dashboard > Assignment02 > #1

Status

</> Changes

📄 Console Output

📝 Edit Build Information

🗑️ Delete build '#1'

🕒 Timings

🔗 Git Build Data

✅ #1 (Apr 24, 2025, 5:21:25 PM)

🔗 Add description

Keep this build forever

🕒

Started by user [Abdul Rehaman Shaik](#)

Started 2 min 46 sec ago
Took **42 sec**

🕒

This run spent:

- 61 ms waiting;
- 42 sec build duration;
- 42 sec total from scheduled to completion.

🔗 git

Revision: bf62dde0c2aa013f2a25df61cc96ee12b647da6f
Repository: <https://github.com/AbdulRehaman082493/mahalogin.git>

- refs/remotes/origin/master

</>

No changes.

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Not Secure

3.144.17.135:8080/job/Assignment02/1/git/

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Abdul Rehaman Shaik

Finish update

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 **Jenkins**

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Dashboard > Assignment02 > #1 > Git Build Data

Status

</> Changes

📄 Console Output

📝 Edit Build Information

🗑️ Delete build '#1'

🕒 Timings

🔗 Git Build Data

Git Build Data

Revision: bf62dde0c2aa013f2a25df61cc96ee12b647da6f
Repository: <https://github.com/AbdulRehaman082493/mahalogin.git>

- refs/remotes/origin/master

Built Branches

- refs/remotes/origin/master: Build #1 of Revision bf62dde0c2aa013f2a25df61cc96ee12b647da6f (refs/remotes/origin/master)

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STEP 7: Verify Build Summary

Location: [Assignment02](#) > [#1](#)

- Shows:
 - Who triggered the build (You)
 - Build time and duration
 - Git branch: [refs/remotes/origin/master](#)
 - Commit ID used for the build



Summary

Section	Details
Source	GitHub - master branch
Build Tool	Maven (clean install)
Output	.war file in Jenkins workspace target directory
Status	 SUCCESS