

Lab Exercise 6.2

Creating a New Jenkins Job to Checkout Source Code

Objective: To set up a Jenkins job to manage source code, specifically by configuring the Source Code Management section to check out code from a Git repository

Tools required: Jenkins

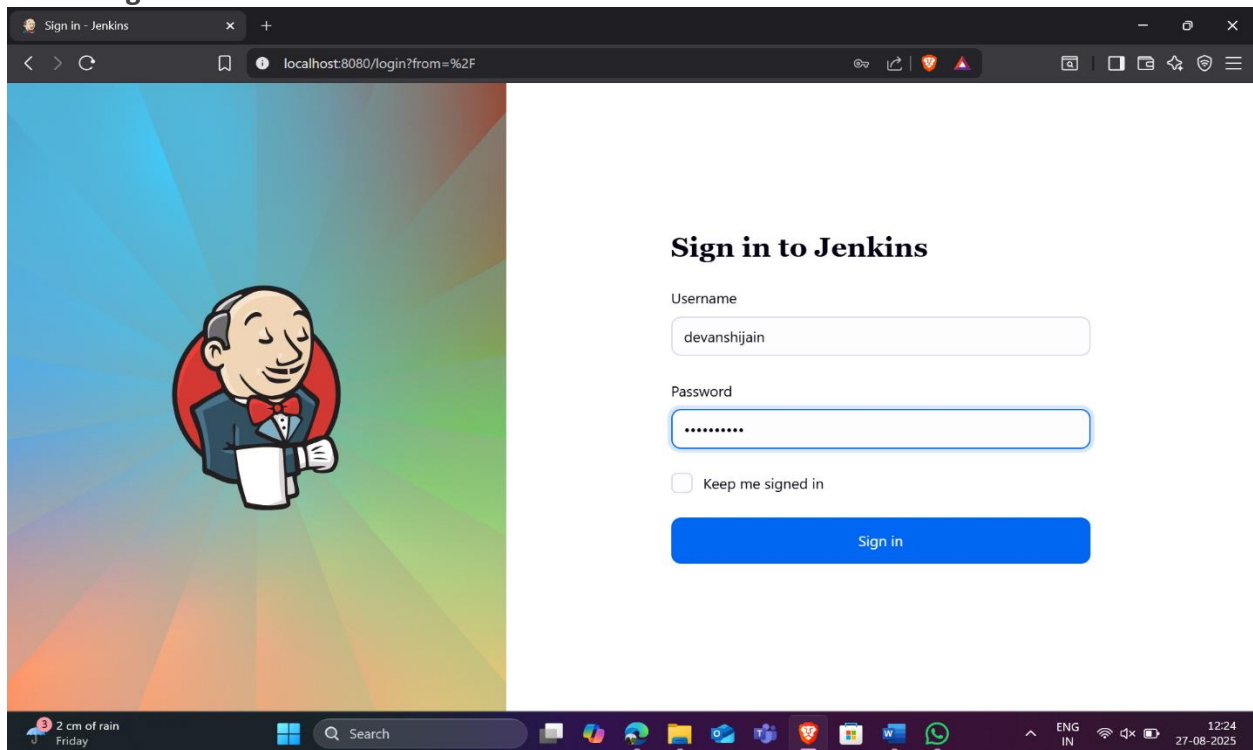
Prerequisites: Jenkins must be operational.

Steps to be followed:

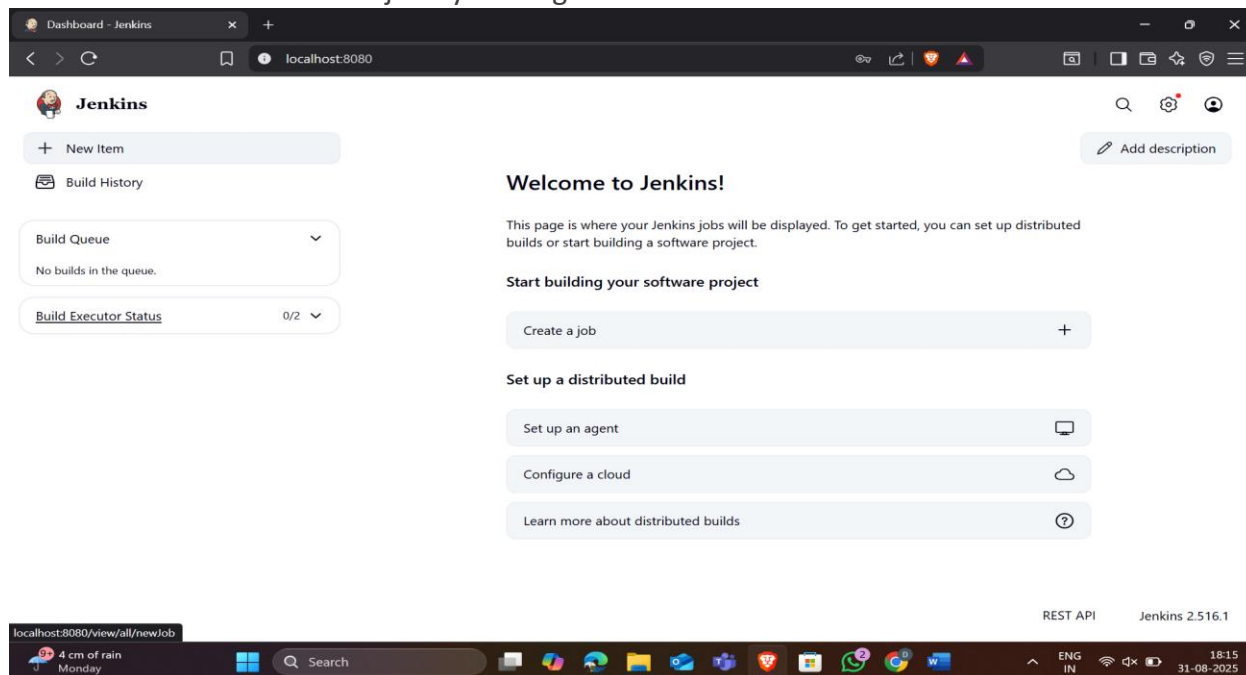
1. Log in and create a Jenkins job
2. Configure source code management

Step 1: Log in and create a Jenkins job

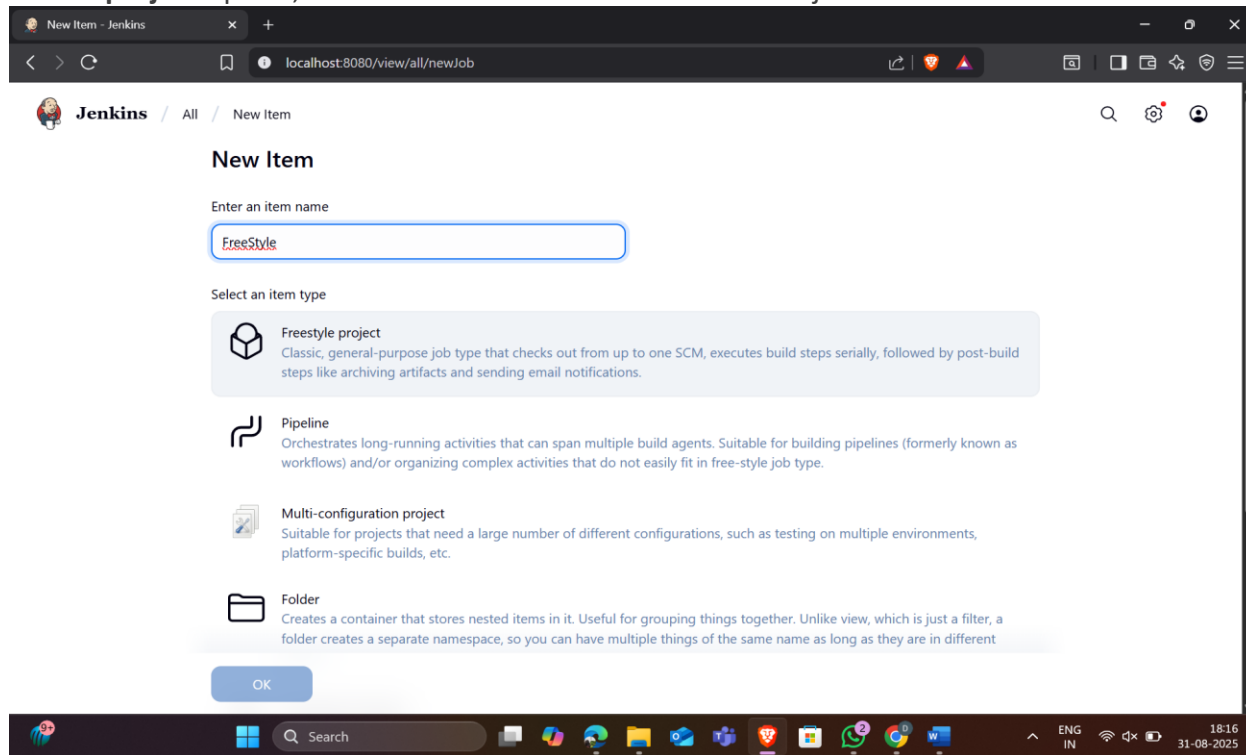
1.1 Navigate to **localhost:8080** in your web browser, enter your credentials, and click on **Sign In**



1.2 Create a new Jenkins job by clicking on **New Item**

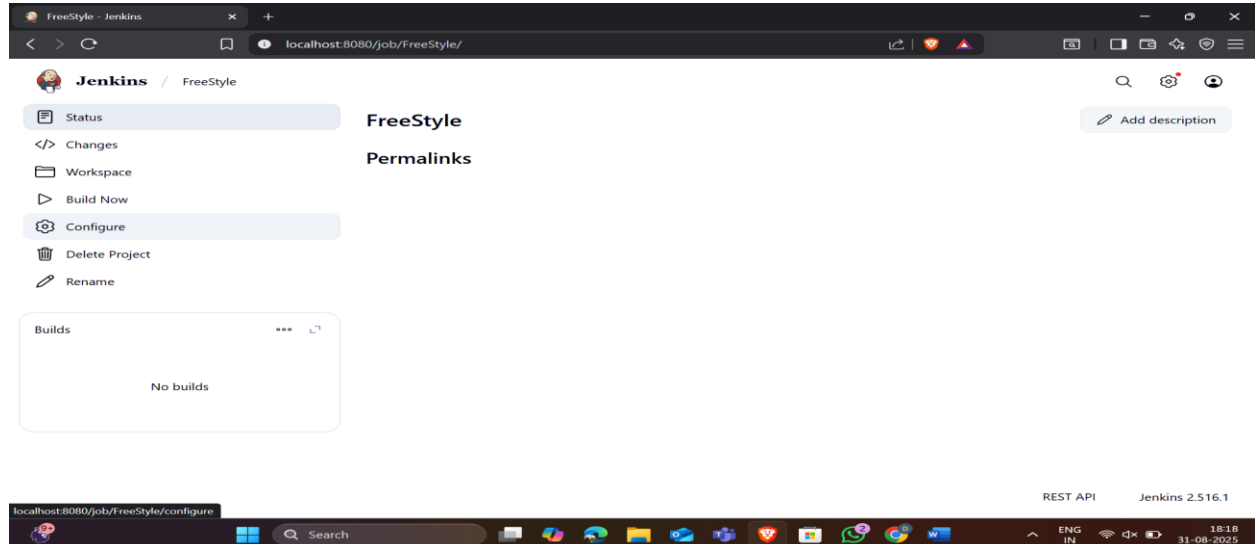


1.3 Provide custom job name inside the field **Enter an item name**, select the **Freestyle project** option, and click on the **OK** button to save the job

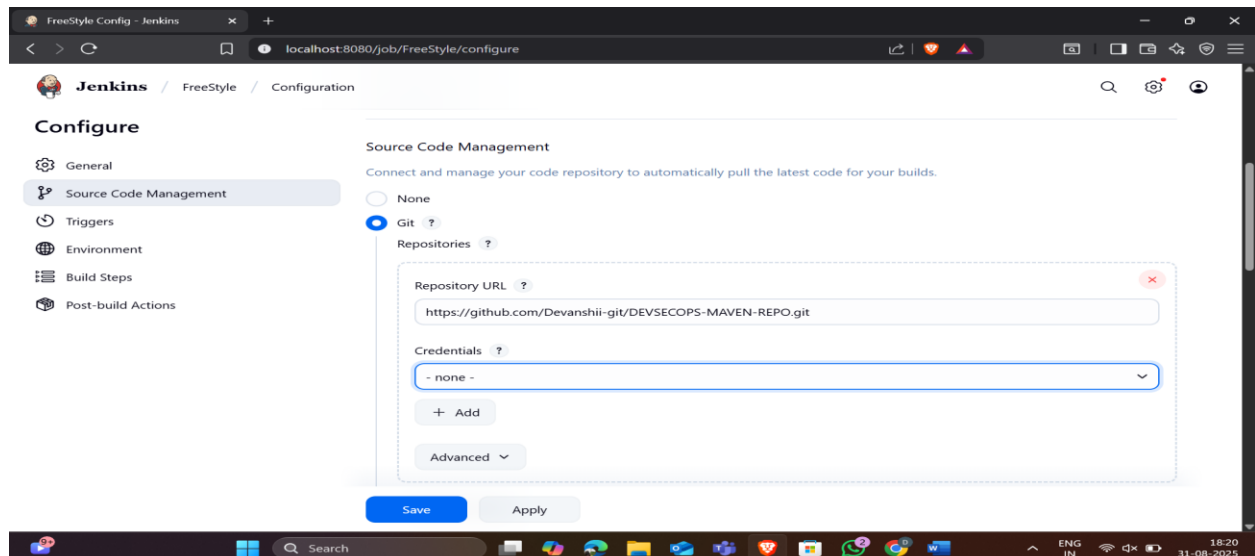


Step 2: Configure source code management

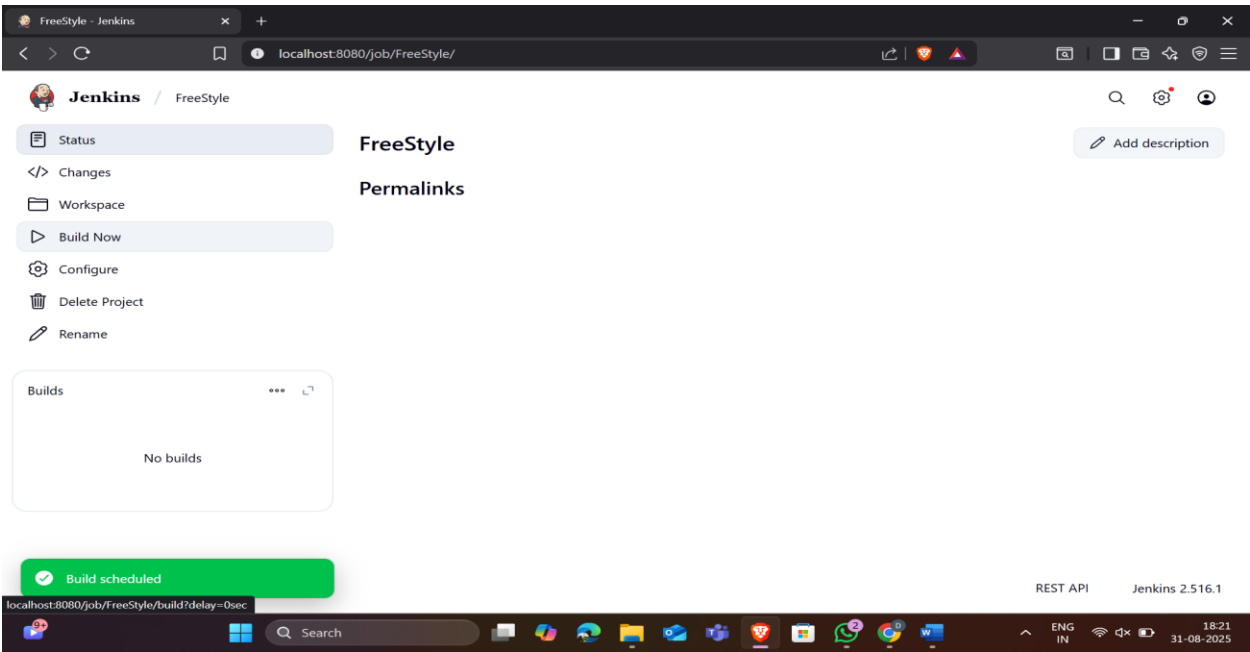
2.1 Access the newly created job's configuration screen by clicking on **Configure**



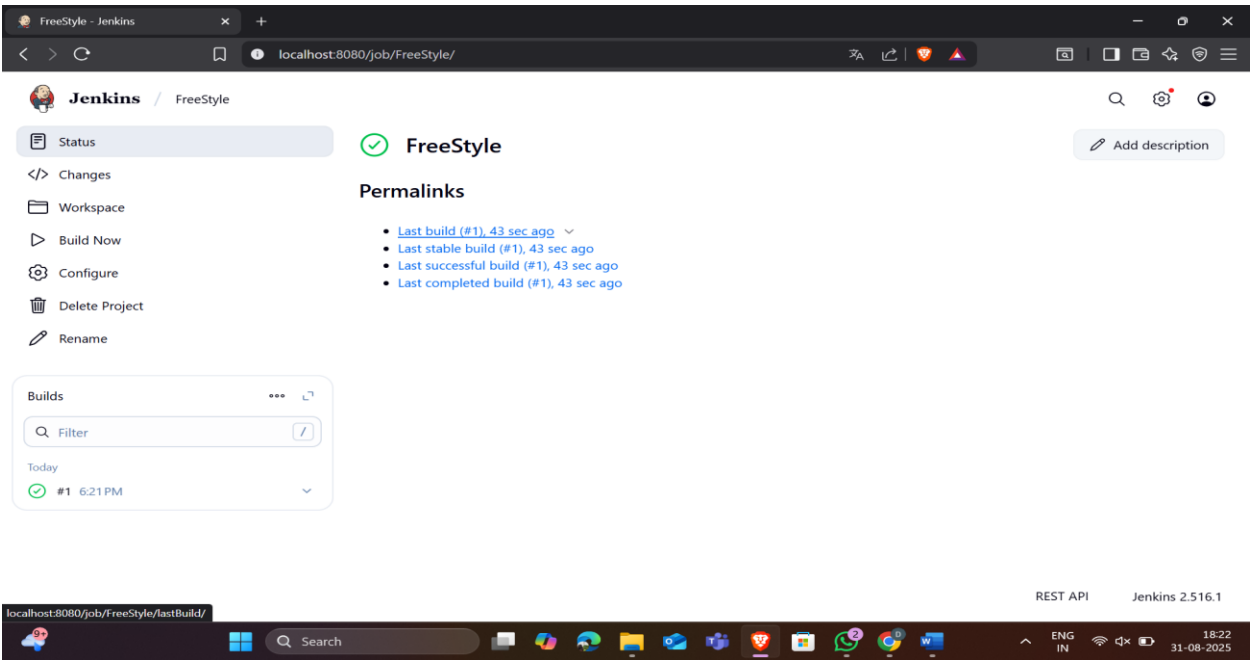
2.2 Navigate to the **Source Code Management** tab, provide Git repository configuration inside the **Repository URL** field, and click on the **Save** button



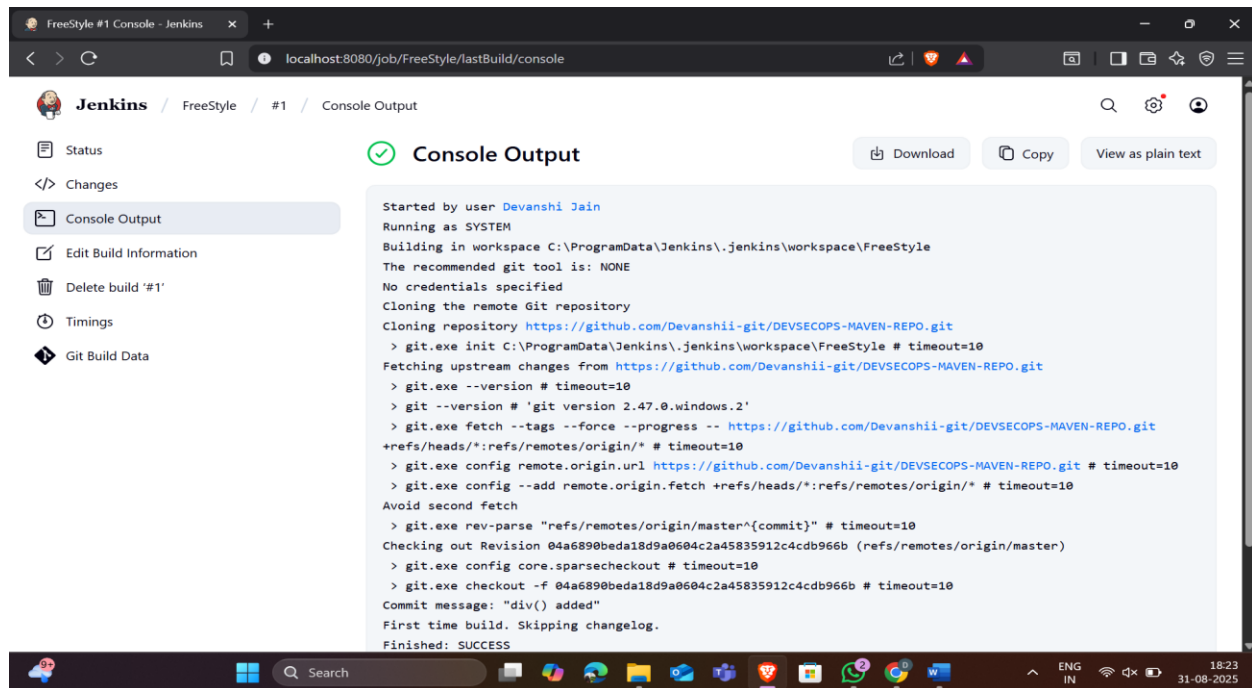
2.3 Then, click on the **Build Now** option to schedule a build



2.4 To schedule the build, click the required link under **Permalinks**



2.5 Click on **Console Output** to check out the process during the build process



The screenshot shows the Jenkins web interface in a browser. The address bar indicates the URL is `localhost:8080/job/FreeStyle/lastBuild/console`. The page title is "FreeStyle #1 Console - Jenkins". The left sidebar contains a list of links: "Status", "Changes", "Console Output" (which is selected and highlighted), "Edit Build Information", "Delete build '#1'", "Timings", and "Git Build Data". The main content area is titled "Console Output" with a green checkmark icon. It includes buttons for "Download", "Copy", and "View as plain text". The console output text is as follows:

```
Started by user Devanshi Jain
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\FreeStyle
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Devanshii-git/DEVSECOPS-MAVEN-REPO.git
> git.exe init C:\ProgramData\Jenkins\.jenkins\workspace\FreeStyle # timeout=10
Fetching upstream changes from https://github.com/Devanshii-git/DEVSECOPS-MAVEN-REPO.git
> git.exe --version # timeout=10
> git --version # 'git version 2.47.0.windows.2'
> git.exe fetch --tags --force --progress -- https://github.com/Devanshii-git/DEVSECOPS-MAVEN-REPO.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/Devanshii-git/DEVSECOPS-MAVEN-REPO.git # timeout=10
> git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision 04a6890beda18d9a0604c2a45835912c4cdb966b (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 04a6890beda18d9a0604c2a45835912c4cdb966b # timeout=10
Commit message: "div() added"
First time build. Skipping changelog.
Finished: SUCCESS
```

The Windows taskbar is visible at the bottom of the screenshot, showing the Start button, search bar, and various application icons. The system clock in the bottom right corner displays the time as 18:23 on 31-08-2025.

By following these steps, you have successfully set up a Jenkins job to automatically check out source code from a Git repository, enabling seamless integration and automation in your CI/CD pipeline.