

Lab Exercise 6.2

Creating a New Jenkins Job to Checkout Source Code

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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

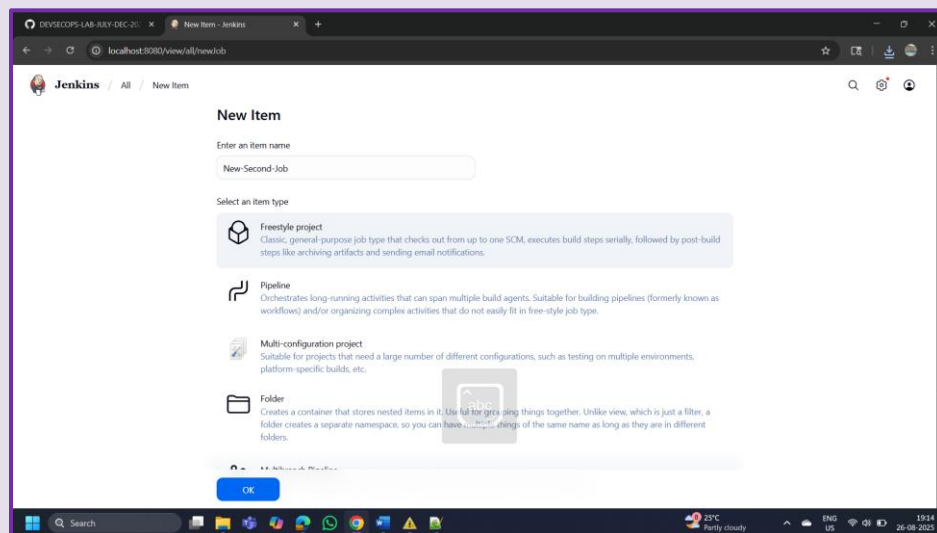
Prerequisites: Jenkins must be operational.

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**

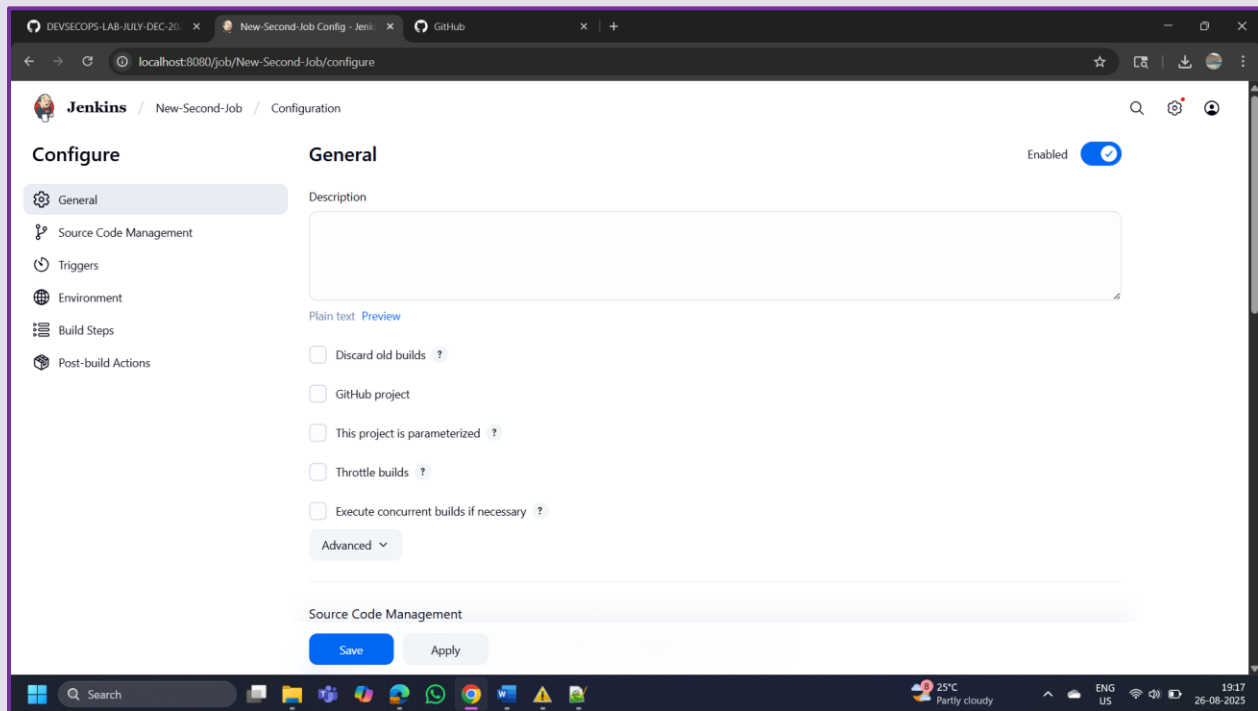
Create a new Jenkins job by clicking on **New Item**

1.2 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

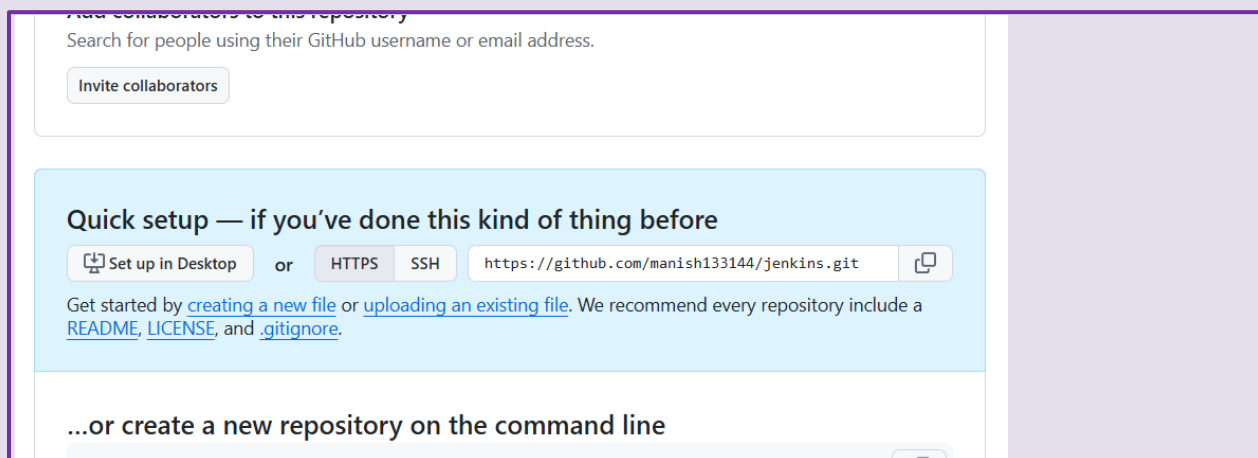


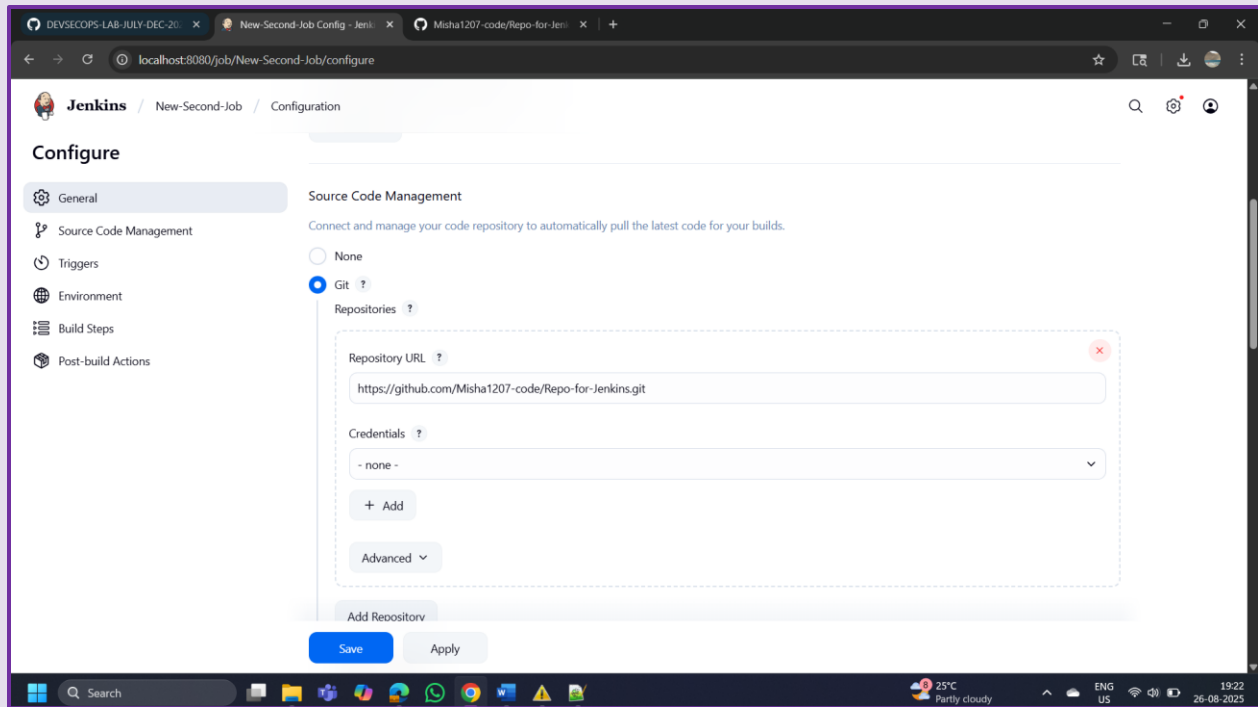
Step 2: Configure source code management

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

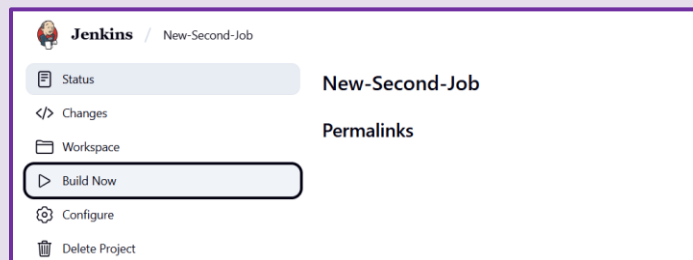


2.2 Navigate to the **Source Code Management** tab, provide Git repository configuration inside the **Repository URL** field, and click on the **Save** button





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**

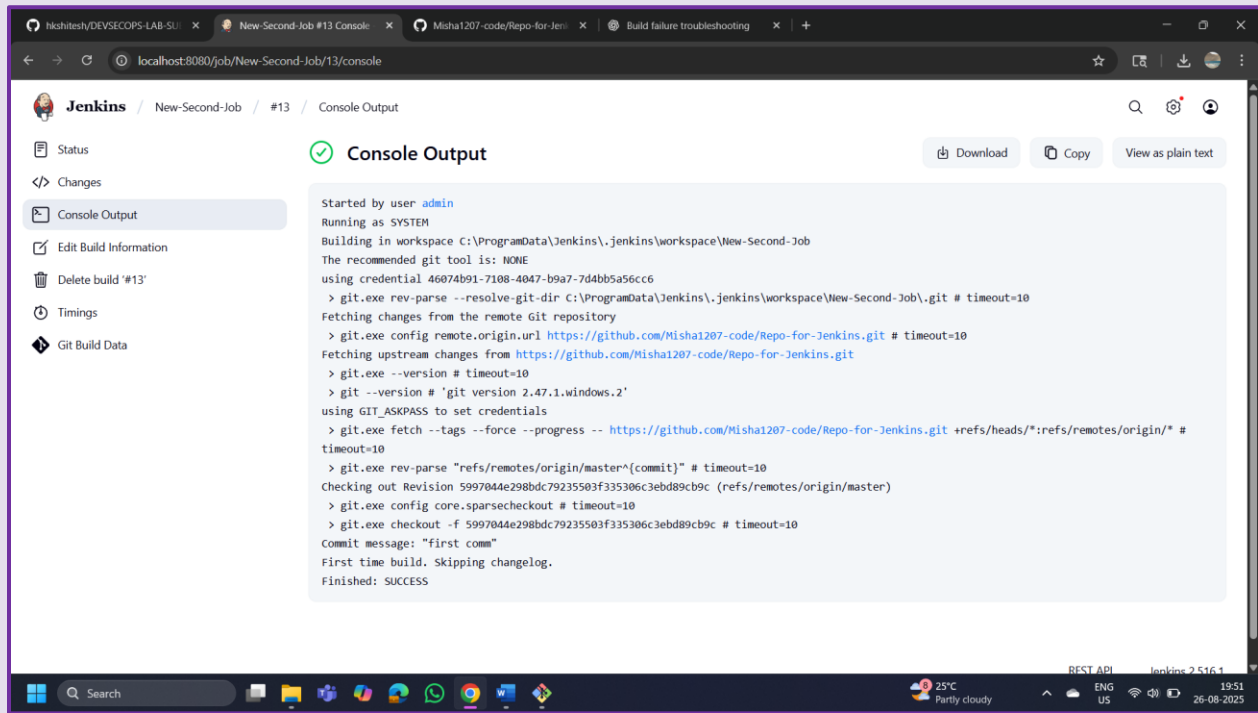
The screenshot shows the Jenkins web interface for a job named "New-Second-Job". The browser address bar indicates the URL is `localhost:8080/job/New-Second-Job/`. The page layout includes a left sidebar with navigation links: Status, Changes, Workspace, Build Now, Configure, Delete Project, and Rename. The main content area is titled "New-Second-Job" and features a "Permalinks" section. Below this, a "Builds" list shows a single build, "#13", completed at "7:51 PM" today. At the bottom of the page, the "REST API" and "Jenkins 2.516.1" version are displayed.

REST API Jenkins 2.516.1

The second screenshot shows the detailed view of build "#13" for the "New-Second-Job". The browser address bar shows the URL `localhost:8080/job/New-Second-Job/13/`. The left sidebar includes links for Status, Changes, Console Output, Edit Build Information, Delete build '#13', Timings, and Git Build Data. The main content area displays the build status as a green checkmark and the title "#13 (Aug 26, 2025, 7:51:08 PM)". It includes buttons for "Add description" and "Keep this build forever". The build details show it was started by user "admin" and took 4.8 seconds to complete. The "This run spent:" section lists: 5 ms waiting, 4.8 sec build duration, and 4.8 sec total from scheduled to completion. The "git" section shows the revision "5997044e298bdc79235503f335306c3ebd89cb9c" and the repository "https://github.com/Misha1207-code/Repo-for-Jenkins.git". The "Changes" section indicates "No changes." At the bottom, the "REST API" and "Jenkins 2.516.1" version are displayed.

REST API Jenkins 2.516.1

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/New-Second-Job/13/console`. The page title is "Jenkins / New-Second-Job / #13 / Console Output". On the left sidebar, the "Console Output" tab is selected. The main area displays the console output for build #13, which is a successful build. The output text is as follows:

```
Started by user admin
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\New-Second-Job
The recommended git tool is: NONE
using credential 46074b91-7108-4047-b9a7-7d4bb5a56cc6
> git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\New-Second-Job\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/Misha1207-code/Repo-for-Jenkins.git # timeout=10
Fetching upstream changes from https://github.com/Misha1207-code/Repo-for-Jenkins.git
> git.exe --version # timeout=10
> git --version # 'git version 2.47.1.windows.2'
using GIT_ASKPASS to set credentials
> git.exe fetch --tags --force --progress -- https://github.com/Misha1207-code/Repo-for-Jenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision 5997044e298bdc79235503f335306c3ebd89cb9c (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 5997044e298bdc79235503f335306c3ebd89cb9c # timeout=10
Commit message: "first comm"
First time build. Skipping changelog.
Finished: SUCCESS
```

The bottom of the screenshot shows a Windows taskbar with the search bar, task icons, and system tray information including temperature (25°C), weather (Partly cloudy), language (ENG US), and time (19:51, 26-08-2025).

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.