

## Lab Exercise 6.2

### Creating a New Jenkins Job to Checkout Source Code

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**Batch-2 ( DevOps)**

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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

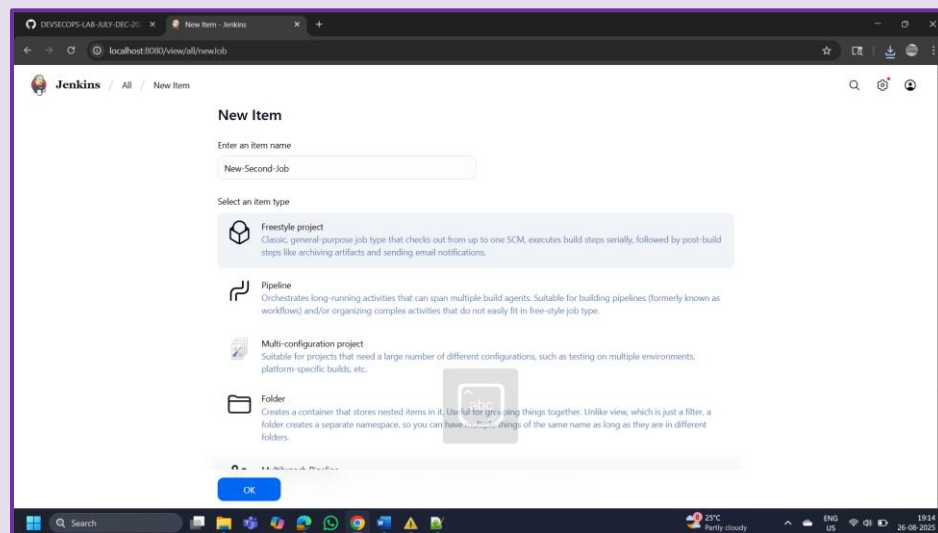
**Prerequisites:** Jenkins must be operational.

#### 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**

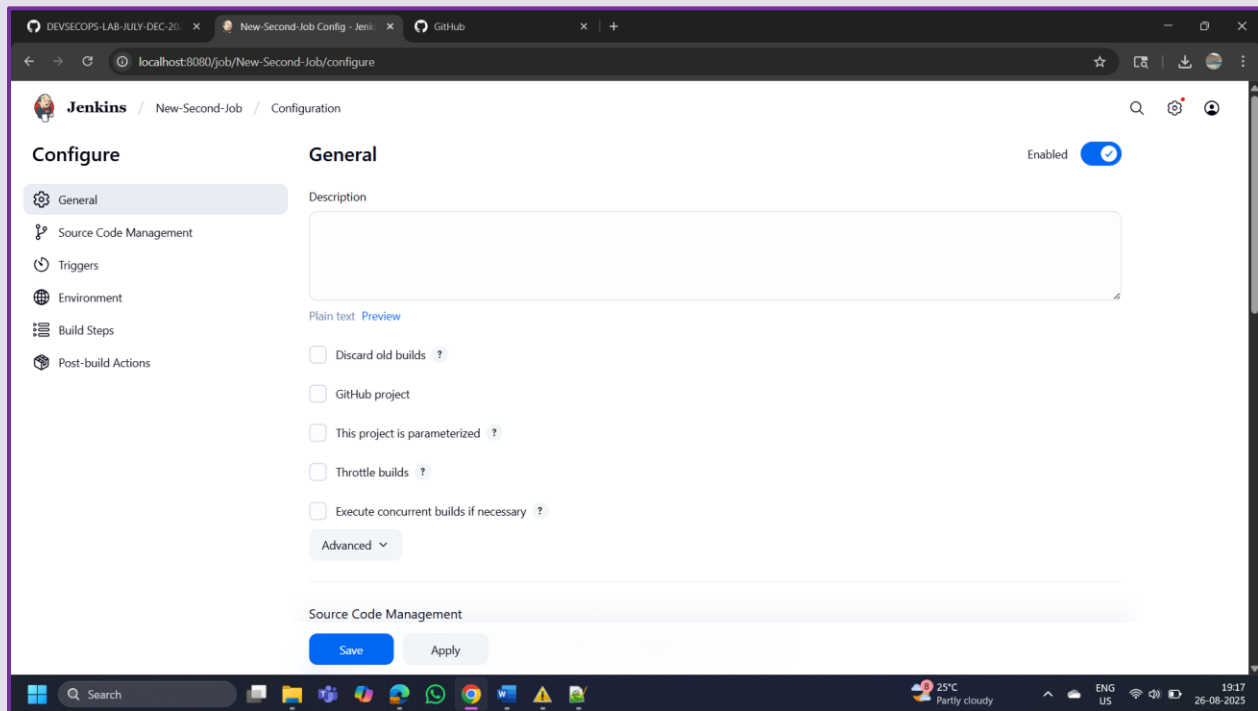
Create a new Jenkins job by clicking on **New Item**

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

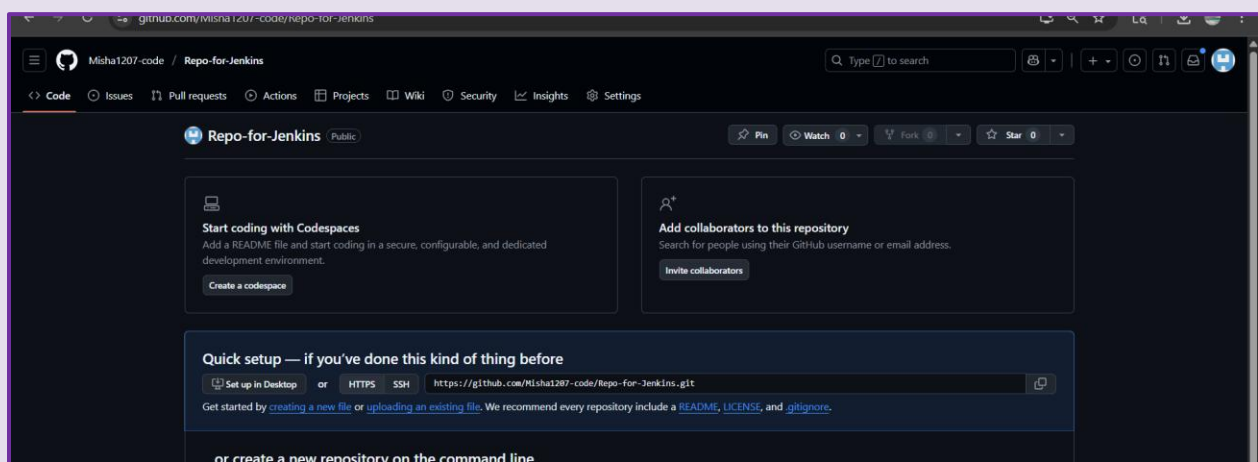


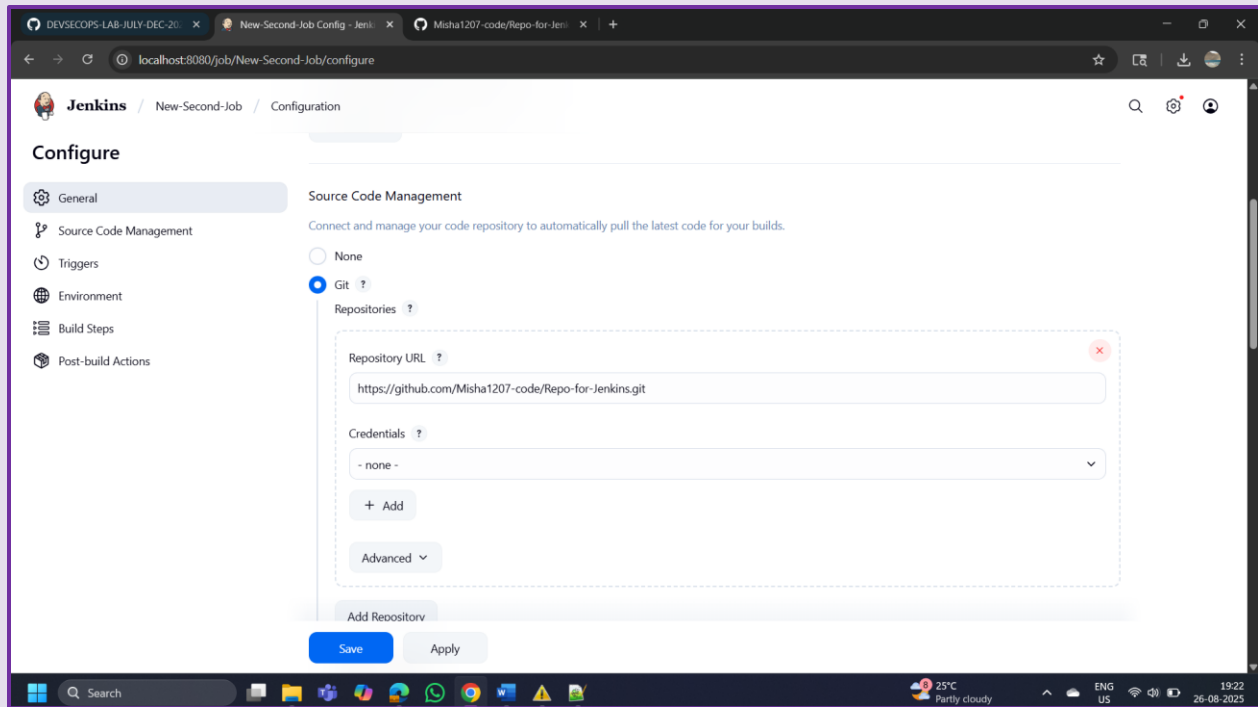
## Step 2: Configure source code management

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

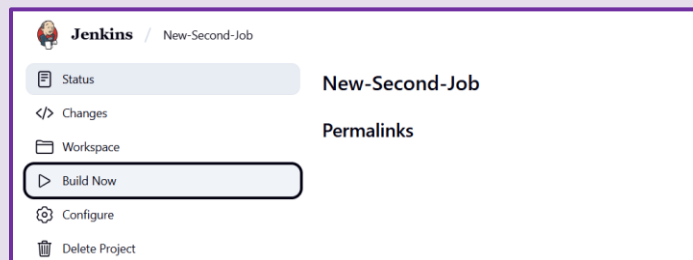


### 2.2 Navigate to the **Source Code Management** tab, provide Git repository configuration inside the **Repository URL** field, and click on the **Save** button





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" section shows a single build, #13, which is green and scheduled for today at 7:51 PM. At the bottom of the page, the REST API and Jenkins version (2.516.1) are displayed. The Windows taskbar at the bottom shows the system clock as 19:51 on 26-08-2025.

Jenkins / New-Second-Job

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

New-Second-Job

Permalinks

Add description

Builds

Today

#13 7:51 PM

REST API Jenkins 2.516.1

25°C Partly cloudy 19:51 26-08-2025

localhost:8080/job/New-Second-Job/13/

Jenkins / New-Second-Job / #13

Status

Changes

Console Output

Edit Build Information

Delete build '#13'

Timings

Git Build Data

#13 (Aug 26, 2025, 7:51:08 PM)

Add description

Keep this build forever

Started by user [admin](#)

Started 1 min 2 sec ago  
Took 4.8 sec

This run spent:

- 5 ms waiting;
- 4.8 sec build duration;
- 4.8 sec total from scheduled to completion.

Revision: 5997044e298bdc79235503f335306c3ebd89cb9c

Repository: <https://github.com/Misha1207-code/Repo-for-Jenkins.git>

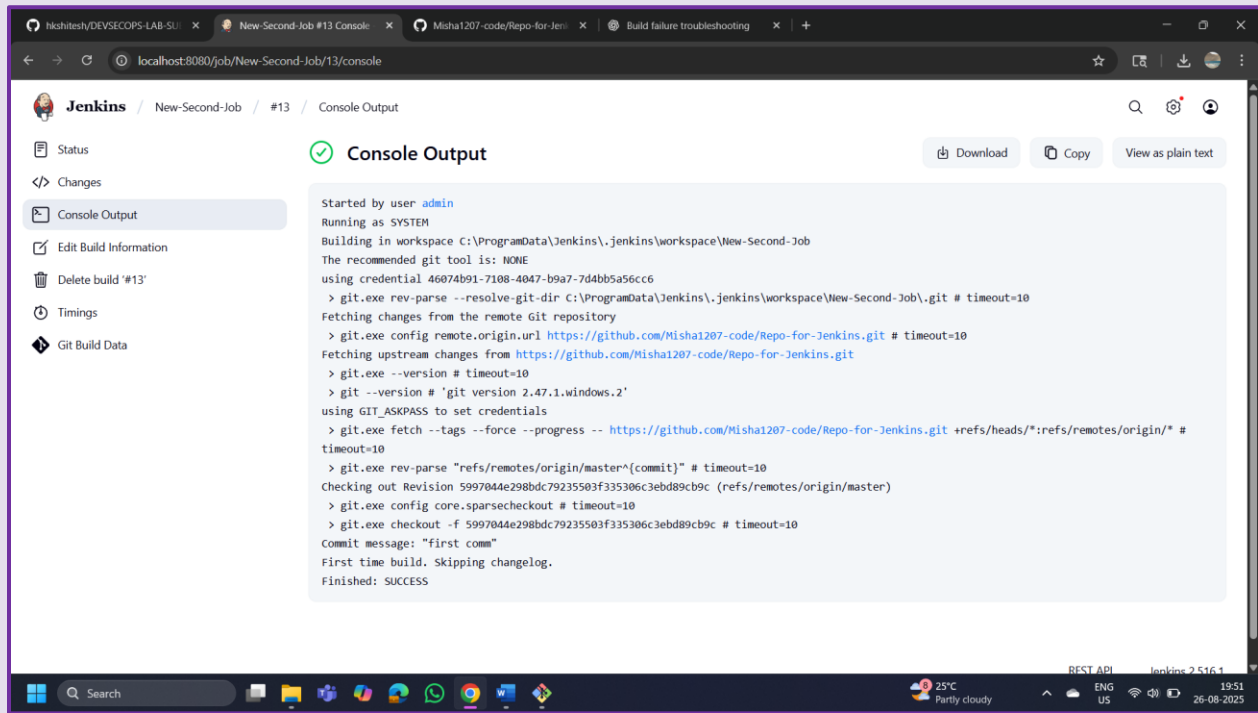
- refs/remotes/origin/master

No changes.

REST API Jenkins 2.516.1

25°C Partly cloudy 19:52 26-08-2025

## 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 content 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.