

# 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

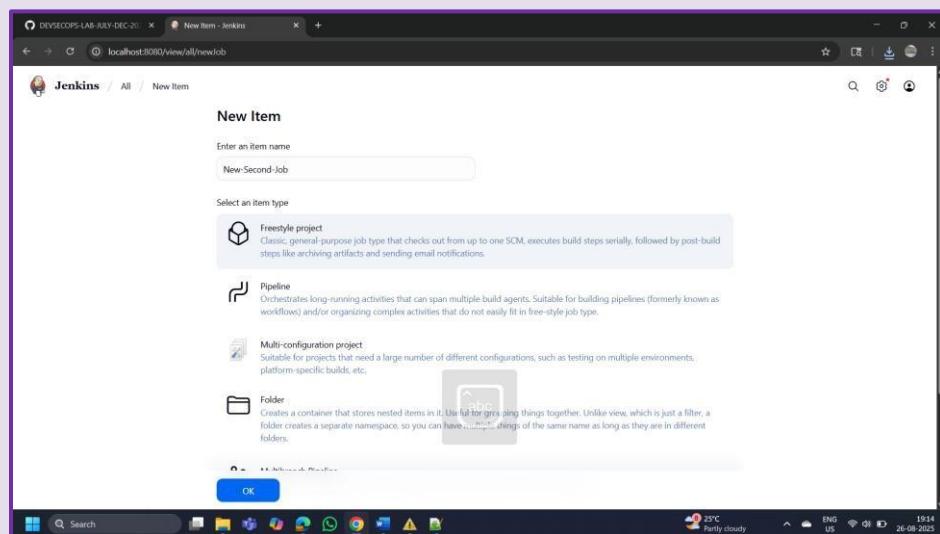
**Prerequisites:** Jenkins must be operational.

### 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**

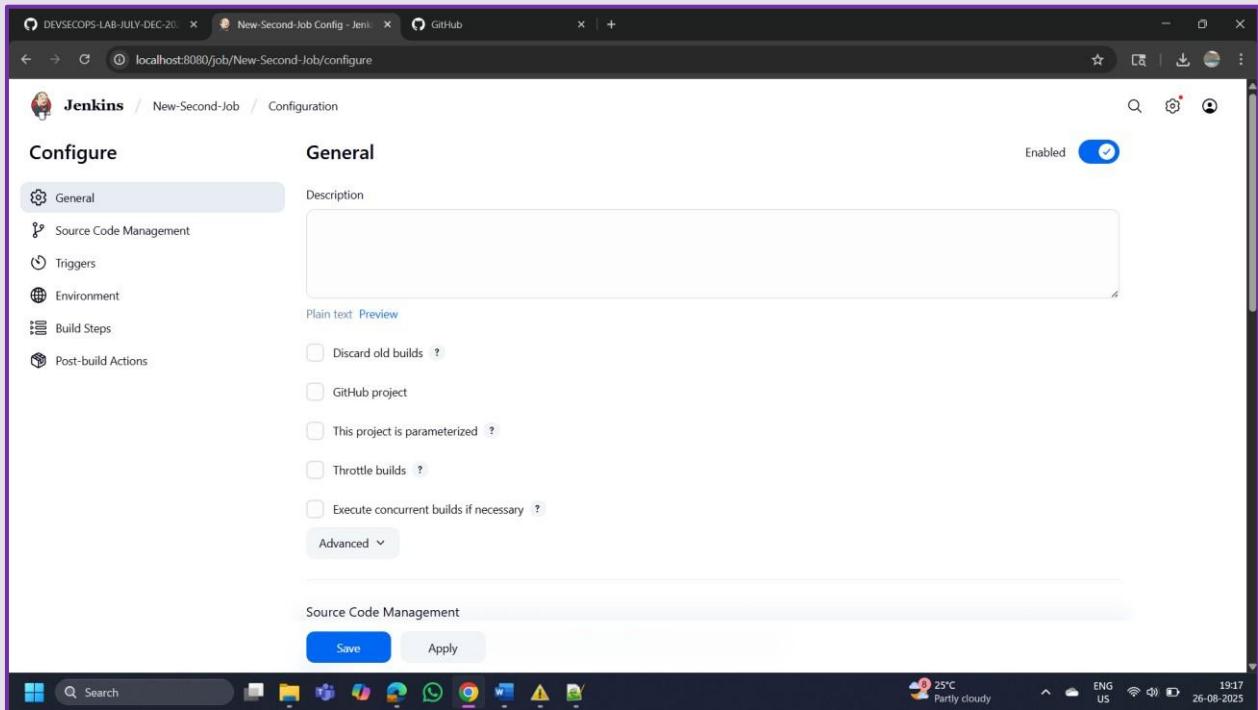
Create a new Jenkins job by clicking on **New Item**

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

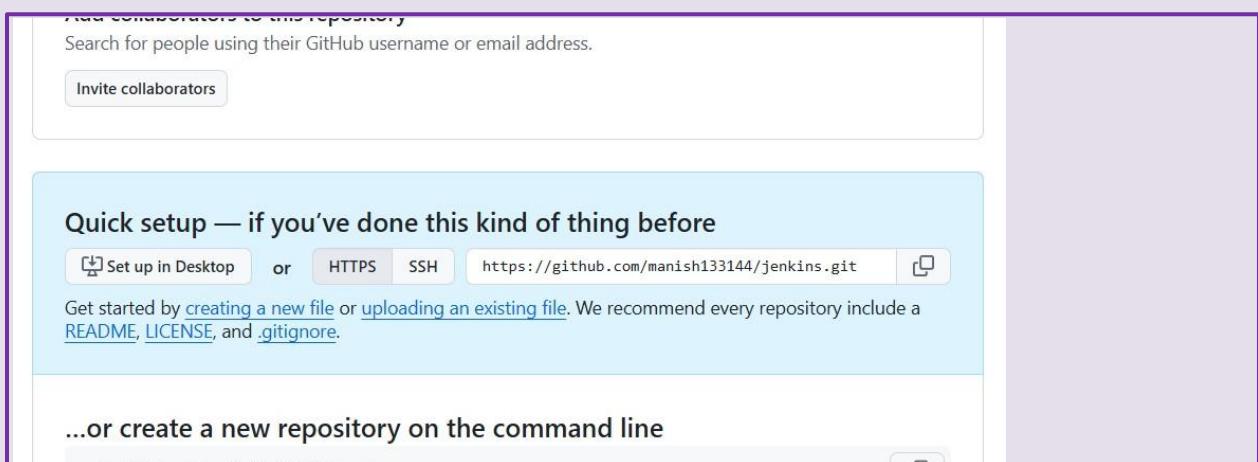


## Step 2: Configure source code management

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



The screenshot shows the Jenkins configuration interface for a job named 'New-Second-Job'. The left sidebar lists configuration sections: General, Source Code Management, Triggers, Environment, Build Steps, and Post-build Actions. The 'General' section is currently selected. Under 'Source Code Management', the 'Git' option is chosen, and the 'Repository URL' is set to 'https://github.com/Misha1207-code/Repo-for-Jenkins.git'. The 'Credentials' dropdown is set to '- none -'. There is a '+ Add' button for adding credentials. A dashed box highlights the 'Repository URL' input field and its value. At the bottom are 'Save' and 'Apply' buttons.

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

The screenshot shows the Jenkins project status page for 'New-Second-Job'. The left sidebar includes links for Status, Changes, Workspace, Build Now (which is highlighted with a black border), Configure, and Delete Project. The main area displays the project name 'New-Second-Job' and a 'Permalinks' section.

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

The screenshots show the Jenkins interface for the 'New-Second-Job' project.

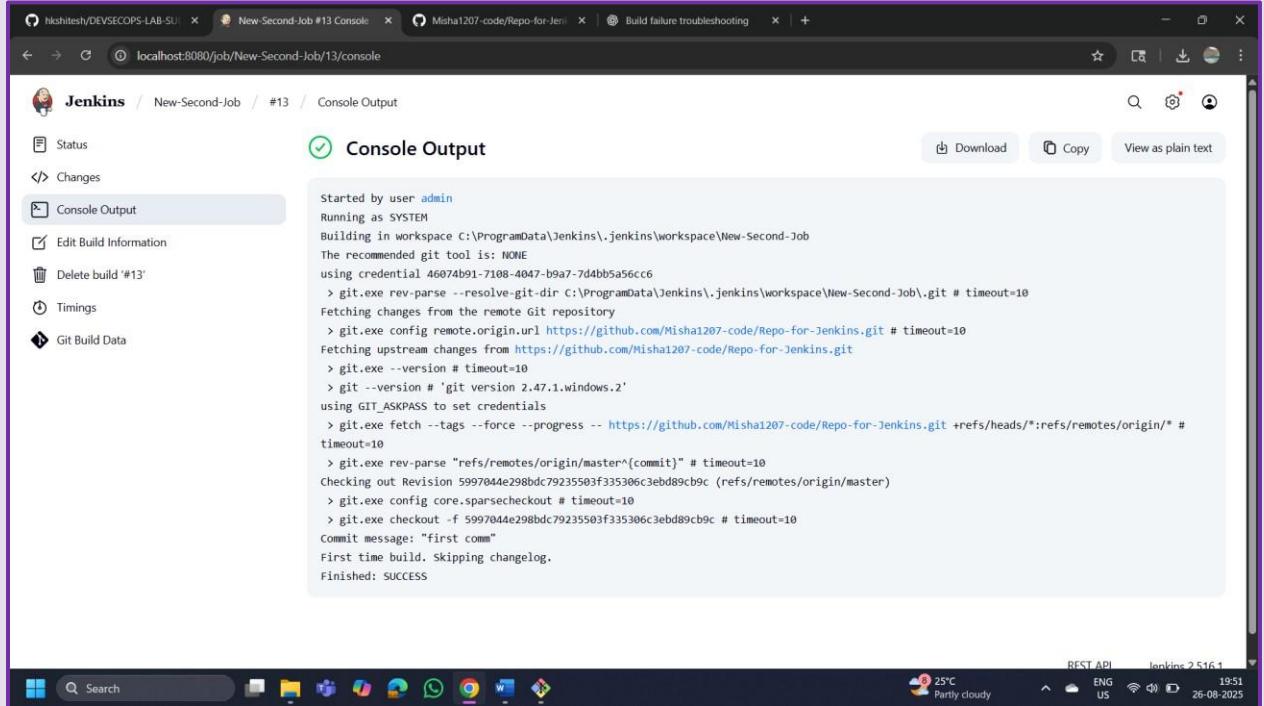
**Top Screenshot (Project Page):**

- Header: hkhitesh/DEVSECOPS-LAB-SU | New-Second-Job - Jenkins | Misha1207-code/Repo-for-Jen... | Build failure troubleshooting
- Page Title: Jenkins / New-Second-Job
- Left Sidebar:
  - Status
  - </> Changes
  - Workspace
  - Build Now
  - Configure
  - Delete Project
  - Rename
- Main Content:
  - Permalinks**
  - Builds
  - Today: #13 7:51 PM
- Footer: REST API Jenkins 2.516.1

**Bottom Screenshot (Build Details):**

- Header: localhost:8080/job/New-Second-Job/13/
- Page Title: Jenkins / New-Second-Job / #13
- Left Sidebar:
  - Status
  - </> Changes
  - Console Output
  - Edit Build Information
  - Delete build '#13'
  - Timings
  - Git Build Data
- Main Content:
  - #13 (Aug 26, 2025, 7:51:08 PM)**
  - Started by user admin
  - This run spent:
    - 5 ms waiting;
    - 4.8 sec build duration;
    - 4.8 sec total from scheduled to completion.
  - git Revision: 5997044e298bcd79235503f335306c3ebd89cb9c  
Repository: <https://github.com/Misha1207-code/Repo-for-Jenkins.git>
    - refs/remotes/origin/master
  - </> No changes.
- Footer: REST API Jenkins 2.516.1

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



The screenshot shows a Windows desktop environment with a Jenkins job console output window open. The window title is "Console Output" for build #13 of "New-Second-Job". The left sidebar lists "Status", "Changes", "Console Output" (which is selected), "Edit Build Information", "Delete build #13", "Timings", and "Git Build Data". The main pane displays the build log:

```
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 https://github.com/Misha1207-code/Repo-for-Jenkins.git
> 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 taskbar at the bottom shows various pinned icons and the system tray indicates it's 25°C, Partly cloudy, with the date 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.