

Lab Exercise 9

Setting up Poll SCM Configuration in Jenkins

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Batch – 2 (DevOps)

Objective: To set up poll SCM configuration in Jenkins for automating build triggering and optimizing resource usage on Jenkins servers

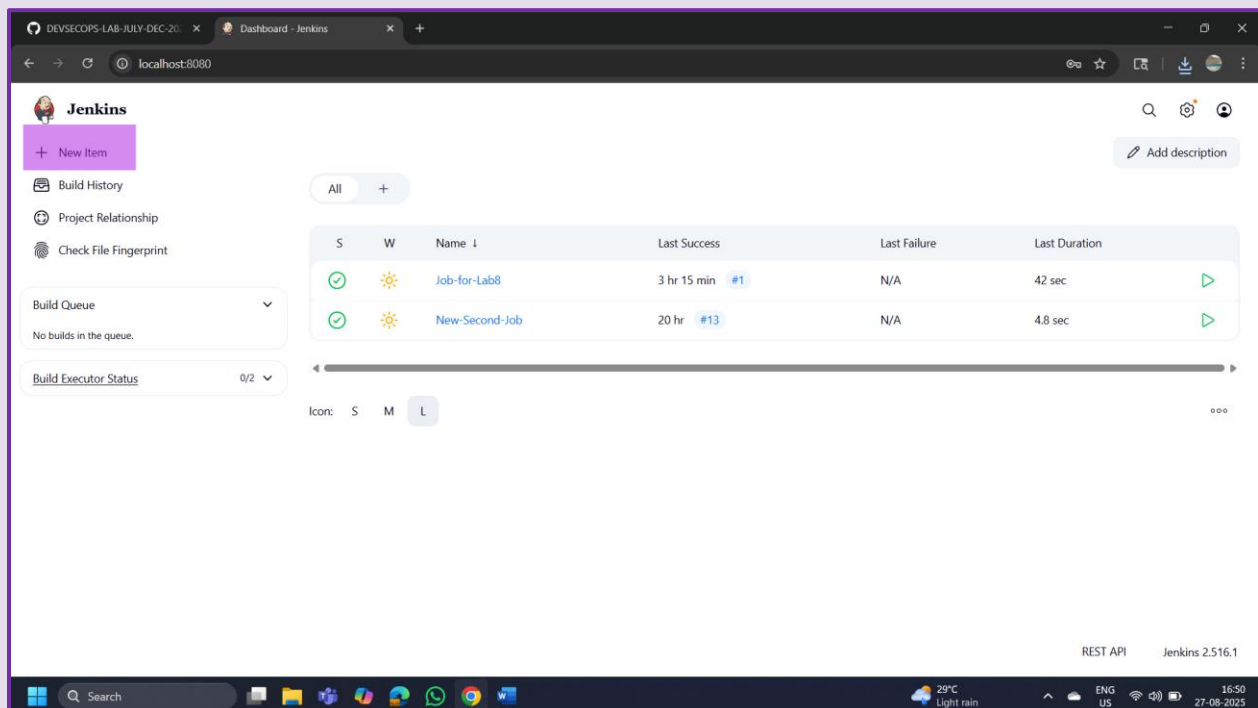
Tools required: Jenkins

Prerequisites: You need to have a Jenkins up and running.

Step 1: Log in to the Jenkins CI tool and set up poll SCM configuration

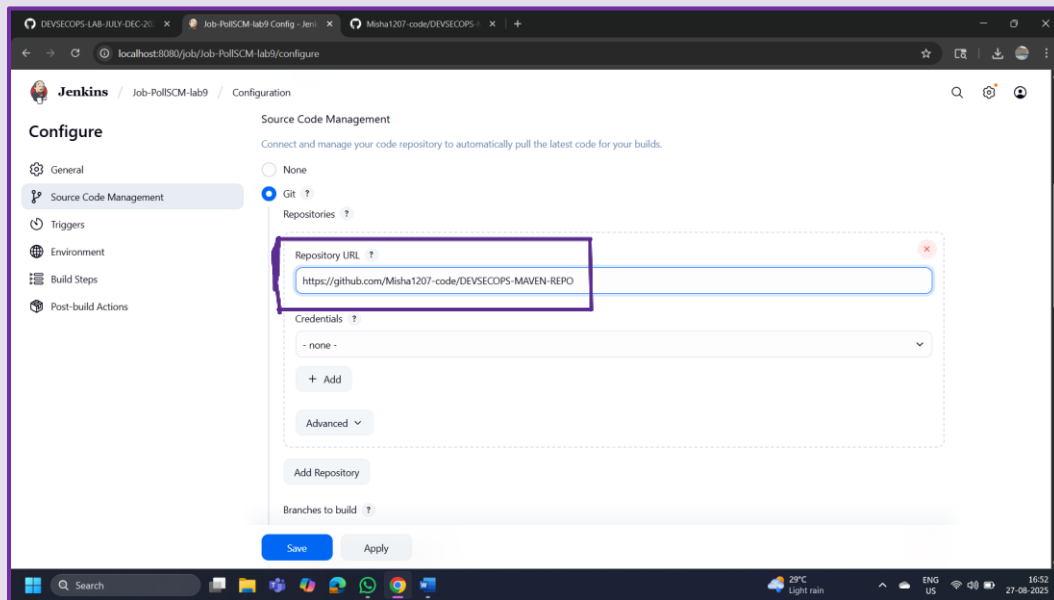
1.1 Log in to Jenkins using the credentials

1.2 In the Jenkins dashboard, click on **New Item**

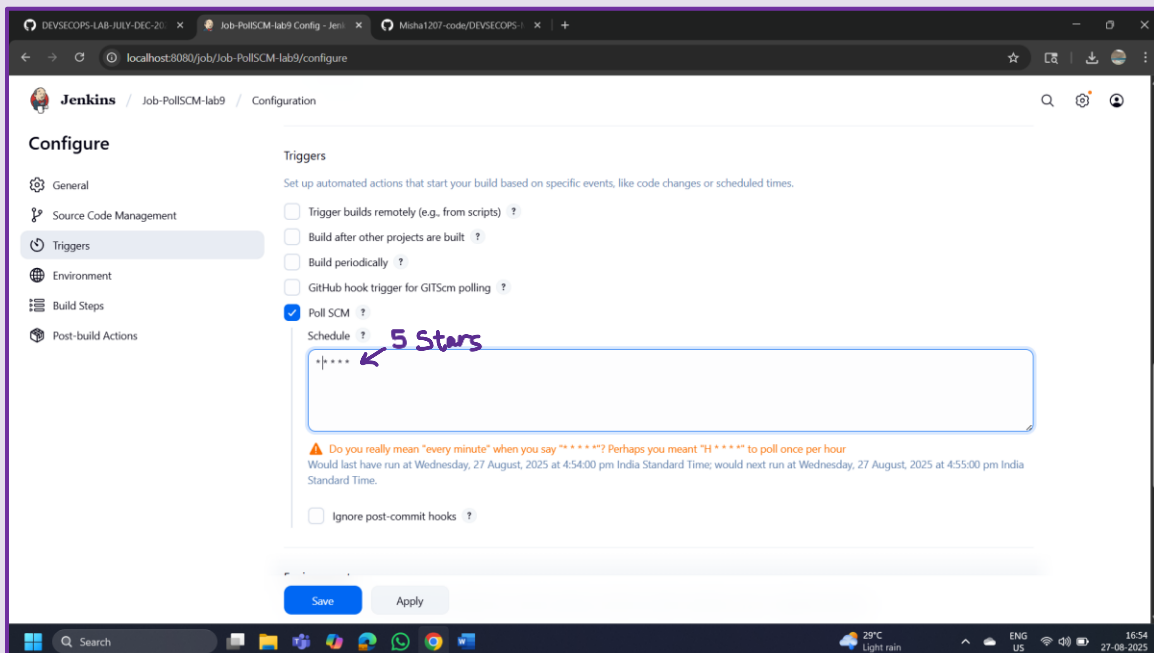


1.3 Select the **Freestyle project** while creating a Jenkins job, provide a custom job name, and click on **OK**

1.4 Now, in the Configure page, navigate to **Source Code Management** from the left navigation bar, select **Git**, and then provide the Git repository URL



1.5 Now, navigate to **Build Environment**, click on **Poll SCM**, provide **H/2****** under the **Schedule** section, and then click on **Save (Triggers Section)**

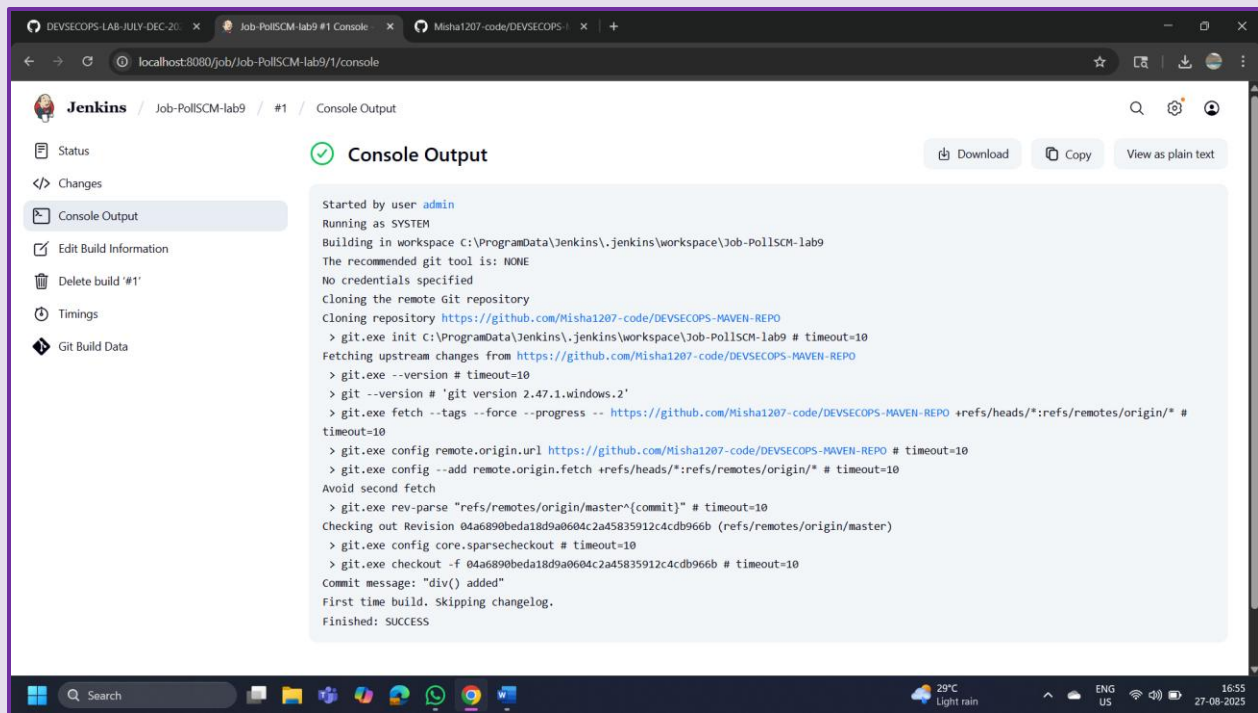


1.6 Then, click on **Build Now** to configure a build, and you will be able to view the successful build in the **Console output** section.

The image displays two screenshots of the Jenkins web interface, illustrating the process of building a project.

Top Screenshot: The Jenkins dashboard for the job 'Job-PollSCM-lab9'. The left sidebar contains navigation links: Status, Changes, Workspace, Build Now (highlighted), Configure, Delete Project, Git Polling Log, and Rename. The main area shows the job name and a 'Builds' section with a single build entry: #1 at 4:54 PM. A green banner at the bottom indicates 'Build scheduled'.

Bottom Screenshot: The Jenkins dashboard for the job 'Job-PollSCM-lab9' showing the details of build #1. The build is successful, indicated by a green checkmark. The build information includes: Started by user admin, This run spent: 2 ms waiting, 2.3 sec build duration, 2.3 sec total from scheduled to completion. The build is associated with the git repository: <https://github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO>, revision: 04a6890beda18d9a0604c2a45835912c4cdb966b. The console output section shows 'No changes.'



The screenshot displays the Jenkins web interface for a job named 'Job-PollSCM-lab9' with build number '#1'. The 'Console Output' tab is active, showing a green checkmark icon and the title 'Console Output'. On the left sidebar, there are links for 'Status', 'Changes', 'Console Output' (selected), 'Edit Build Information', 'Delete build #1', 'Timings', and 'Git Build Data'. The console output text is as follows:

```
Started by user admin
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\Job-PollSCM-lab9
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO
> git.exe init C:\ProgramData\Jenkins\jenkins\workspace\Job-PollSCM-lab9 # timeout=10
Fetching upstream changes from https://github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO
> git.exe --version # timeout=10
> git --version # 'git version 2.47.1.windows.2'
> git.exe fetch --tags --force --progress -- https://github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO # 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 at the bottom shows the search bar, task view button, and several application icons. The system tray on the right indicates a temperature of 29°C with light rain, language set to ENG US, and the date/time as 16:55 on 27-08-2025.

You can see that the build is configured successfully.

By following these steps, you have successfully set up poll SCM configuration in Jenkins for automating build triggering and optimizing resource usage on Jenkins servers.