

# 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

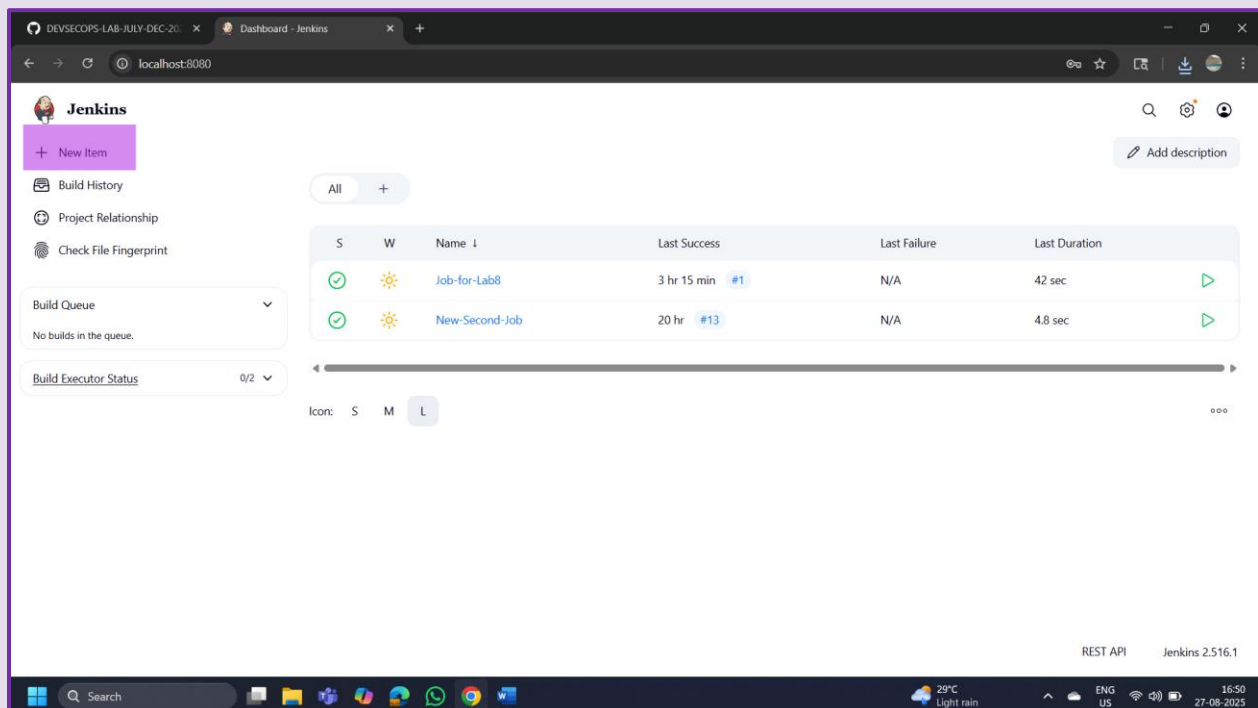
**Tools required:** Jenkins

**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

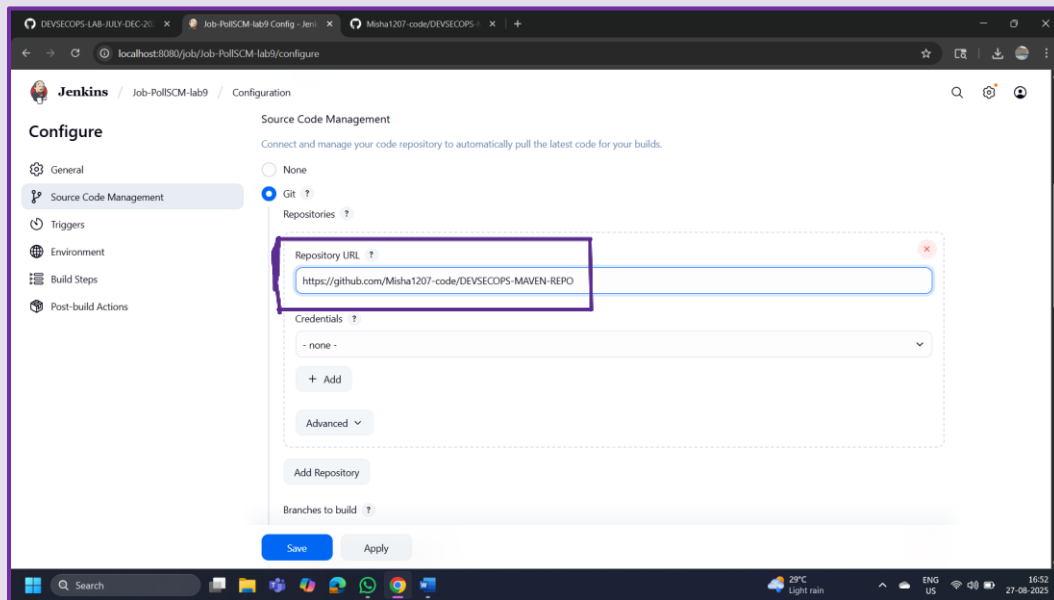
1.1 Log in to Jenkins using the credentials

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

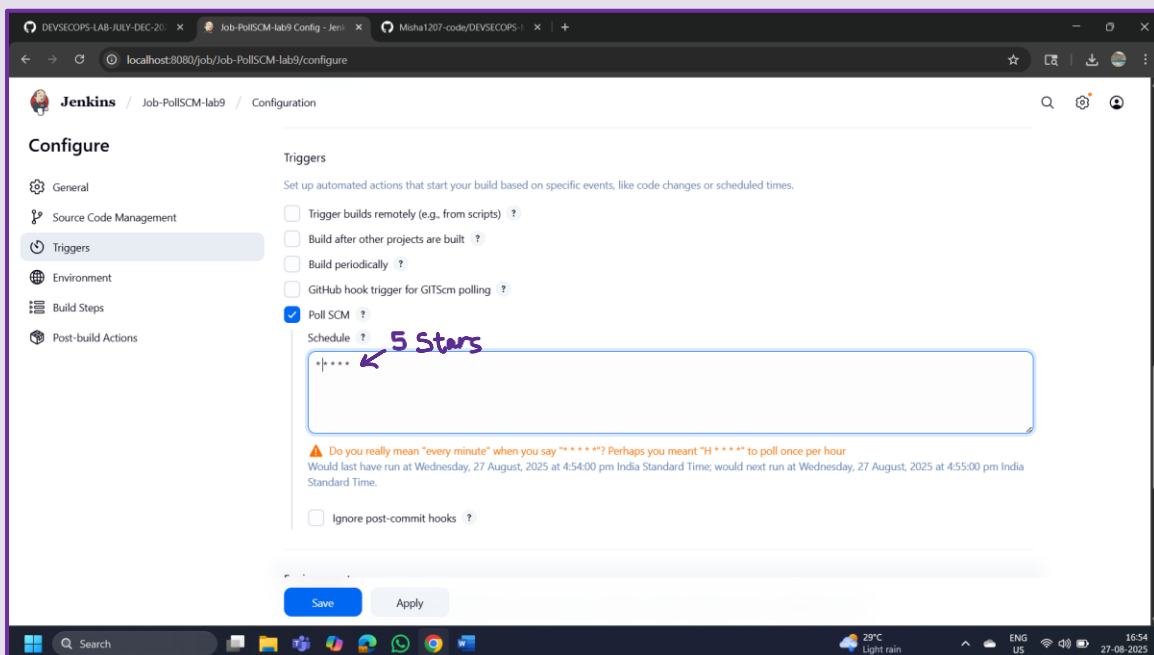


1.3 Select the **Freestyle project** while creating a Jenkins job, provide a custom job name, and click on **OK**

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)**

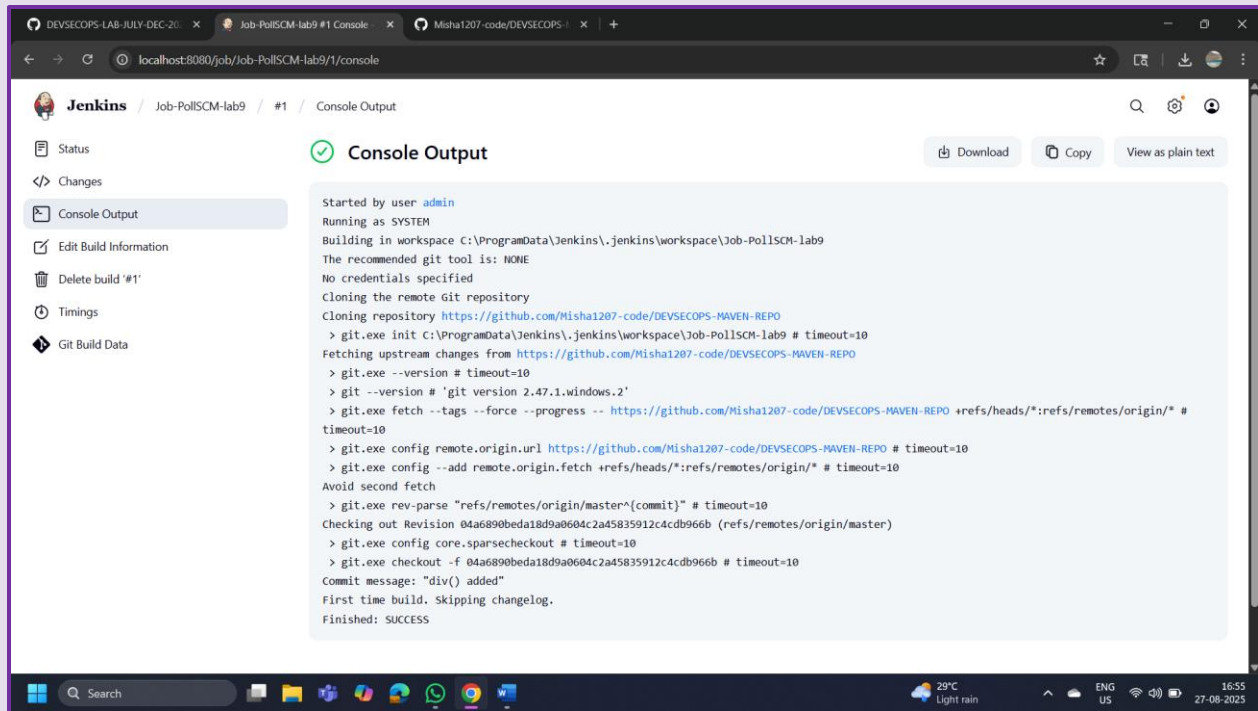


1.6 Then, click on **Build Now** to configure a build, and you will be able to view the successful build in the **Console output** section.

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 shows navigation options: 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 linked to a git repository: Revision: 04a6890beda18d9a0604c2a45835912c4cdb966b, Repository: <https://github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO>, refs/remotes/origin/master. The console output section shows 'No changes.'



The screenshot shows the Jenkins web interface for a job named 'Job-PollSCM-lab9'. The 'Console Output' tab is selected, displaying a successful build log. The log details the process of cloning a Git repository, fetching upstream changes, and checking out a specific revision. The build concludes with the message 'Finished: SUCCESS'.

```
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
```

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.