

Lab Exercise 9

Setting up Poll SCM Configuration in Jenkins

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

Tools required: Jenkins

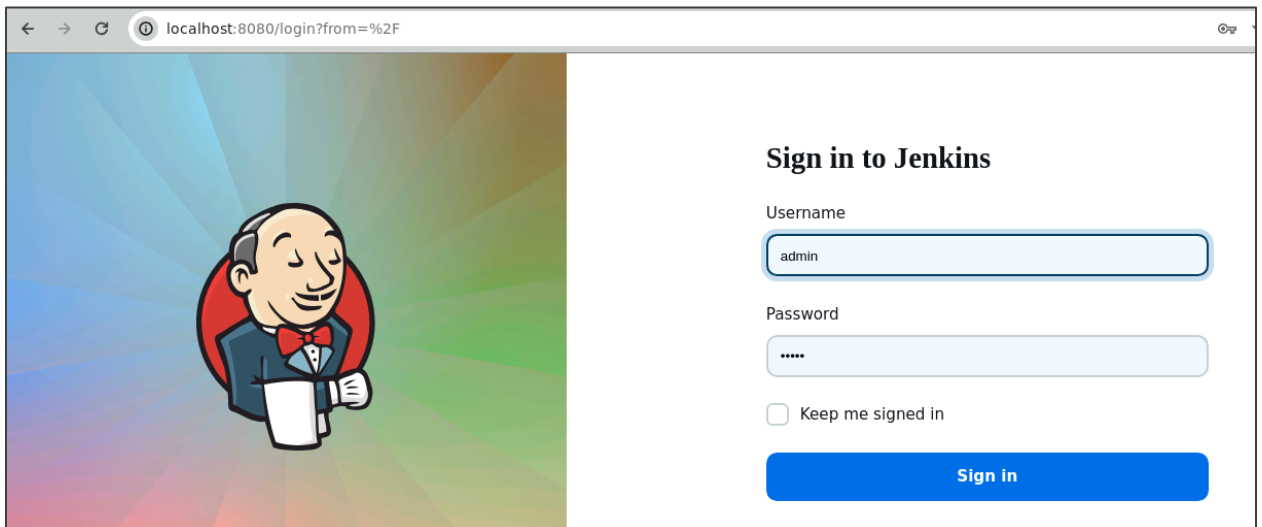
Prerequisites: You need to have a Jenkins up and running.

Steps to be followed:

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

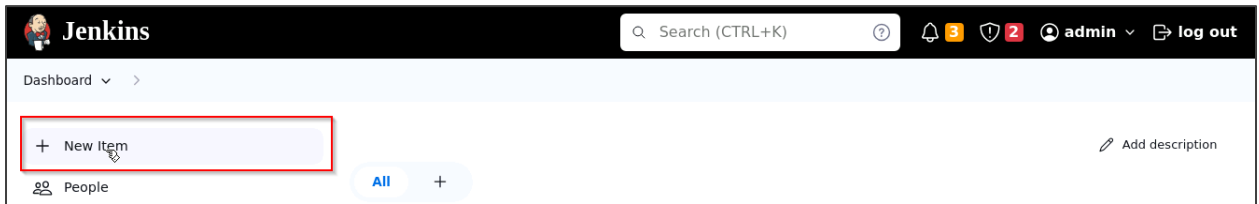
Step 1: Log in to the Jenkins CI tool and set up poll SCM configuration

1.1 Log in to Jenkins using the credentials

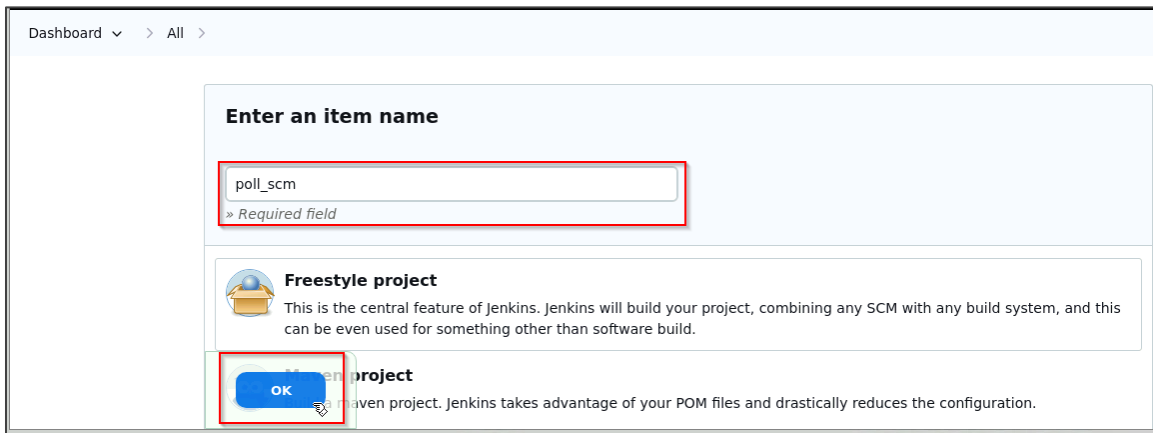
A screenshot of a web browser window showing the Jenkins login page. The browser's address bar displays 'localhost:8080/login?from=%2F'. The page features a large, colorful background image of the Jenkins mascot, a blue elephant wearing a red bow tie and holding a white cup. To the right of the image, the text 'Sign in to Jenkins' is displayed. Below this, there are two input fields: 'Username' with the text 'admin' entered, and 'Password' with masked characters '.....'. A checkbox labeled 'Keep me signed in' is present below the password field. At the bottom right, there is a blue button labeled 'Sign In'.

Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

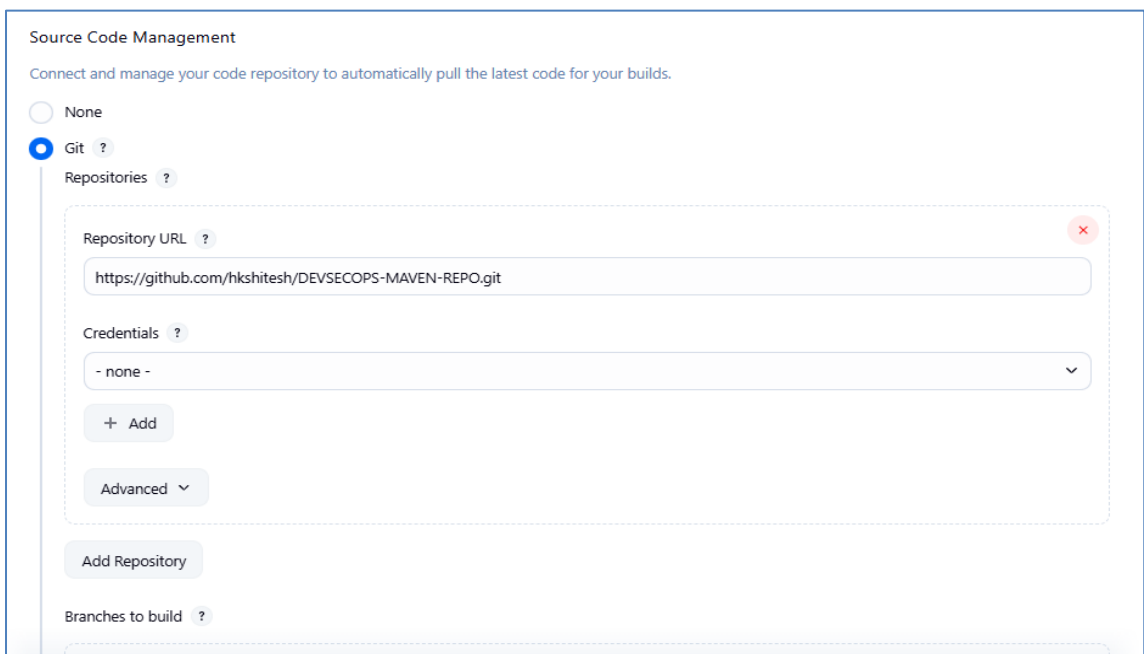
1.2 In the Jenkins dashboard, click on **New Item**

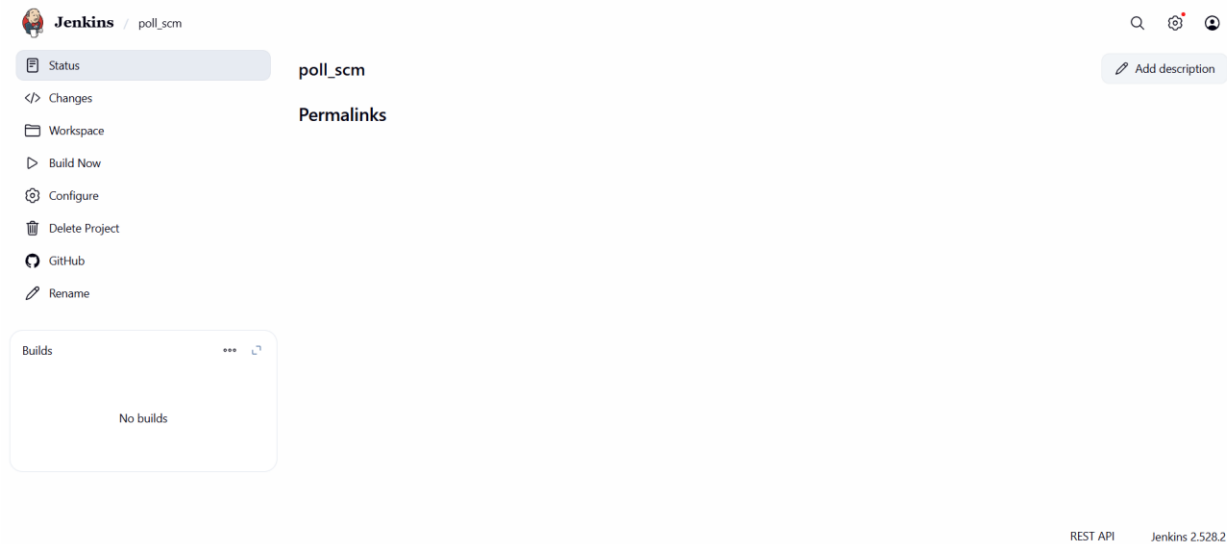


1.3 Select the **Freestyle project** while creating a Jenkins job, provide a custom job name, and click on **OK**

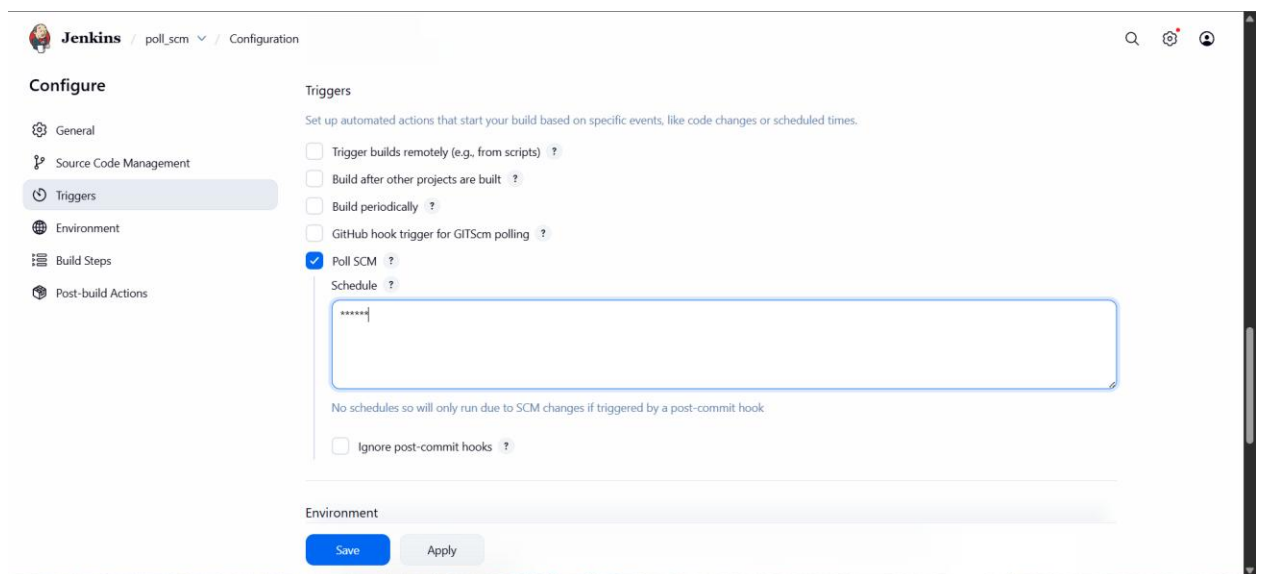


1.4 Now, in the Configure page, navigate to **Source Code Management** from the left navigation bar, select **Git**, and then provide the Git repository URL





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



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.

Dashboard > poll-scm-1 >

Status

Changes

Workspace

Build Now

Configure

Delete Project

Git Polling Log

Rename

poll-scm-1

Permalinks

- Last build (#1), 9 sec ago
- Last stable build (#1), 9 sec ago
- Last successful build (#1), 9 sec ago
- Last completed build (#1), 9 sec ago

Builds

Filter

Dashboard > poll-scm-1 > #2 > Console Output

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

Timings

Git Build Data

Previous Build

Console Output

Download Copy View as plain text

```
Started by user Saksham Joshi
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/poll-scm-1
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/poll-scm-1/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/sakshamjoshi/DEVSECOPS-NAVEN-REPO # timeout=10
Fetching upstream changes from https://github.com/sakshamjoshi/DEVSECOPS-NAVEN-REPO
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/sakshamjoshi/DEVSECOPS-NAVEN-REPO +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 04a6890beda18d9a0604c2a45835912c4cd966b (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 04a6890beda18d9a0604c2a45835912c4cd966b # timeout=10
Commit message: "div() added"
> git rev-list --no-walk 04a6890beda18d9a0604c2a45835912c4cd966b # timeout=10
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.