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Batch 3 – DevOps

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

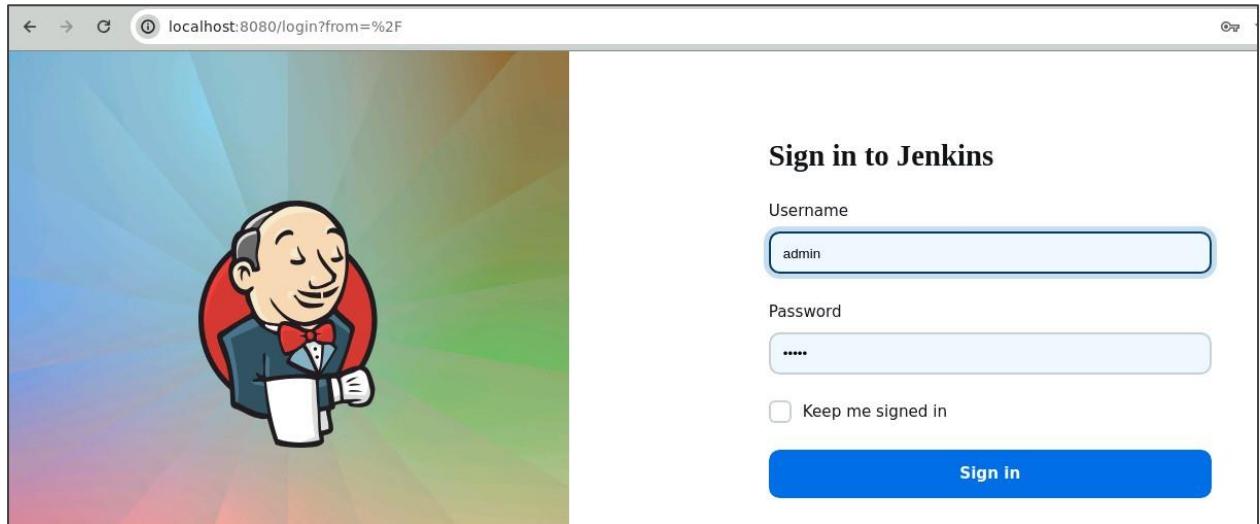
Prerequisites: You need to have a Jenkins up and running.

Steps to be followed:

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

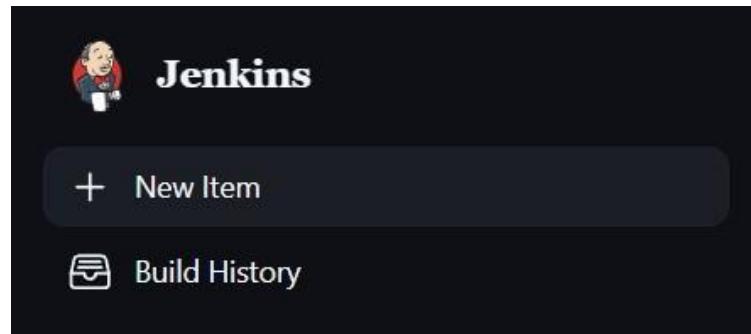
Step 1: Log in to the Jenkins CI tool and set up poll SCM configuration

1.1 Log in to Jenkins using the credentials

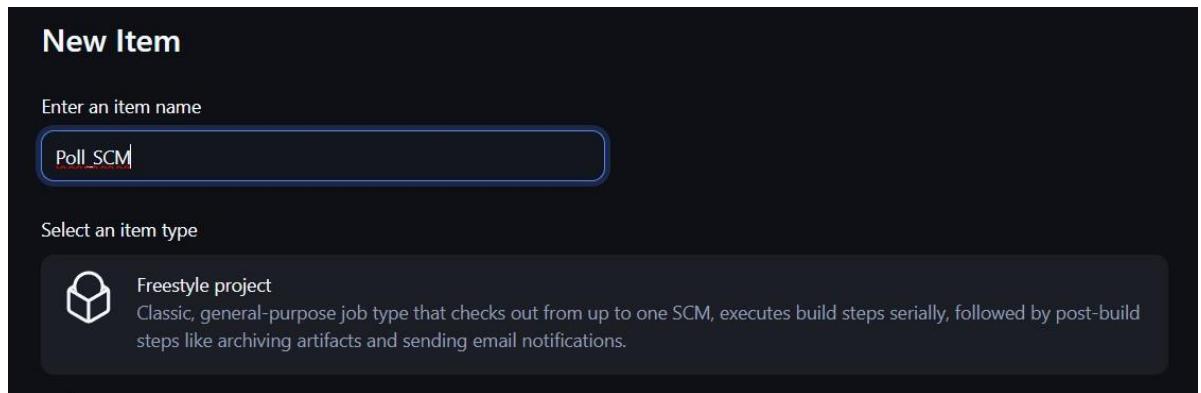


Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

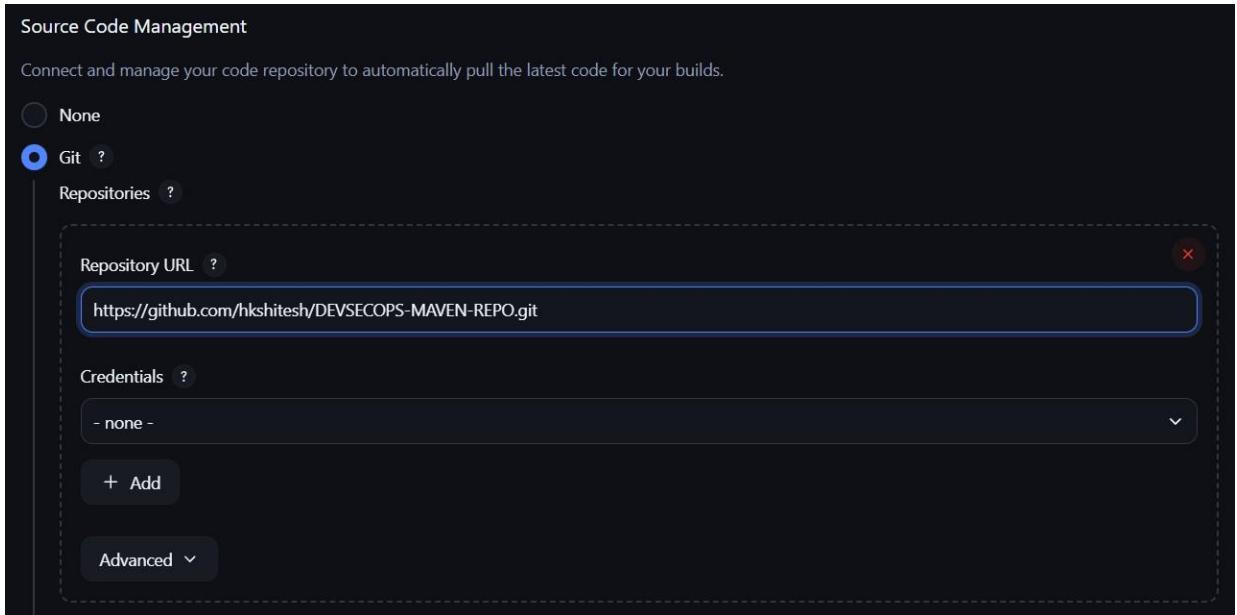
1.2 In the Jenkins dashboard, click on **New Item**



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

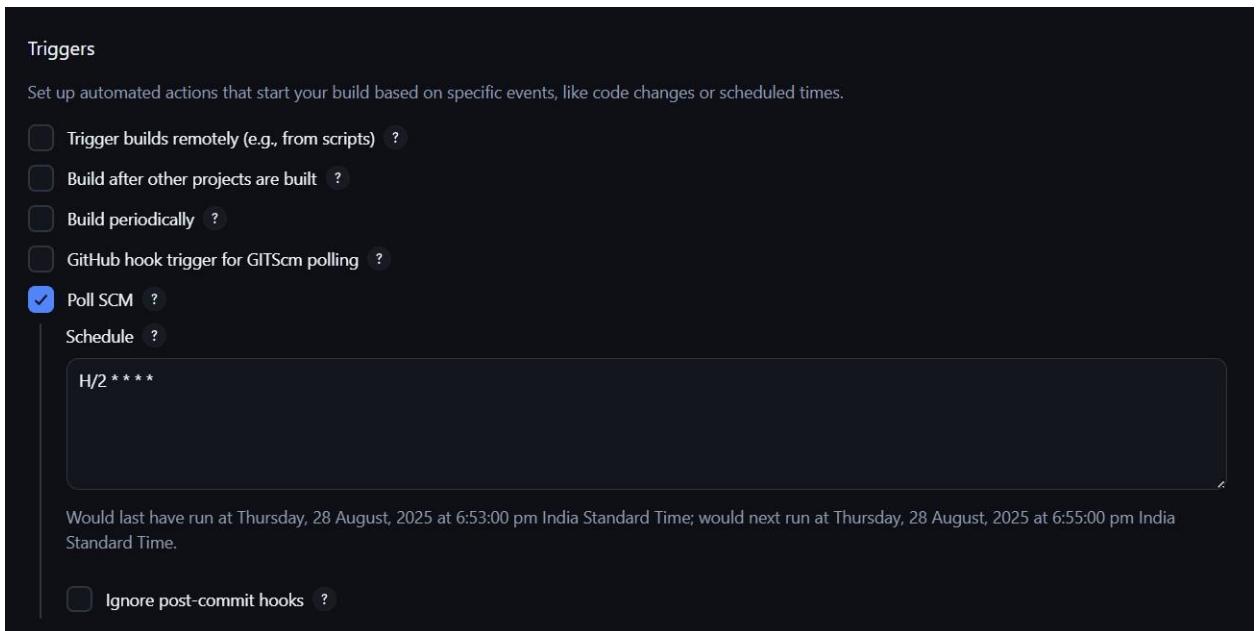


1.4 Now, in the Configure page, navigate to **Source Code Management** from the left navigation bar, select **Git**, and then provide the Git repository URL

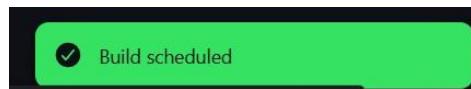
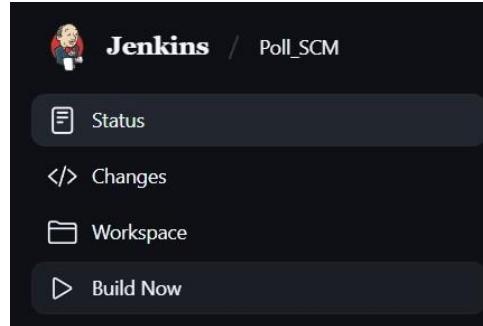


Note: Here, the repository URL is <https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO.git>

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.



```
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\Poll_SCM
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO.git
> git.exe init C:\ProgramData\Jenkins\.jenkins\workspace\Poll_SCM # timeout=10
Fetching upstream changes from https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO.git
> git.exe --version # timeout=10
> git --version # 'git version 2.47.1.windows.2'
> git.exe fetch --tags --force --progress -- https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO.git # 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.