

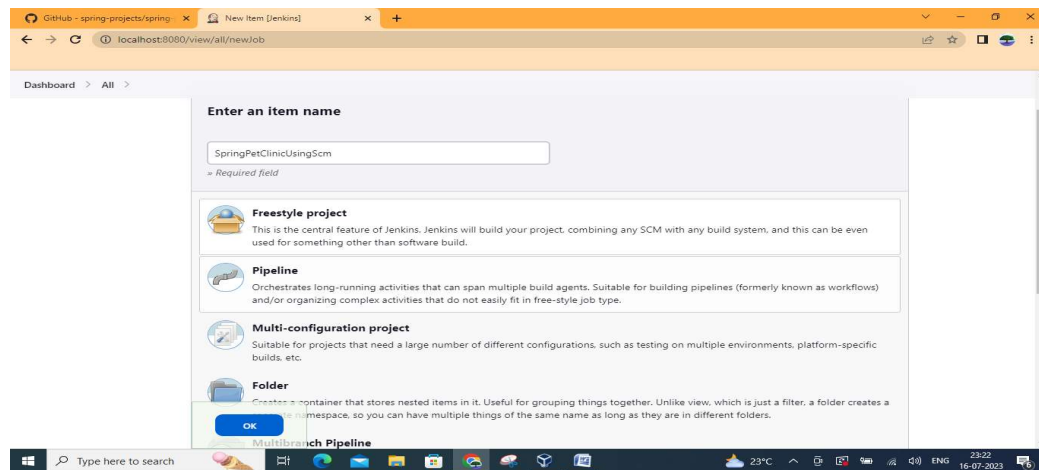
Assignment 5

Build Spring Pet Clinic using Jenkins with Poll SCM

Step 1: Set up the Spring Pet Clinic project in Jenkins

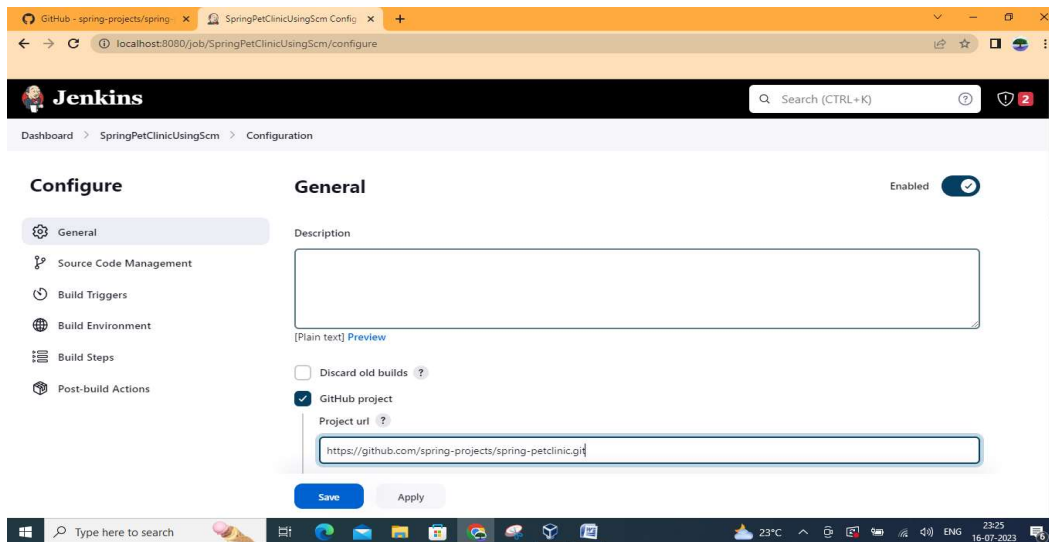
1. Create a new Jenkins job:

- Go to your Jenkins dashboard and click on "New Item."
- Enter a name for your job (e.g., "SpringPetClinicUsingScm").
- Select "Freestyle project" and click "OK."



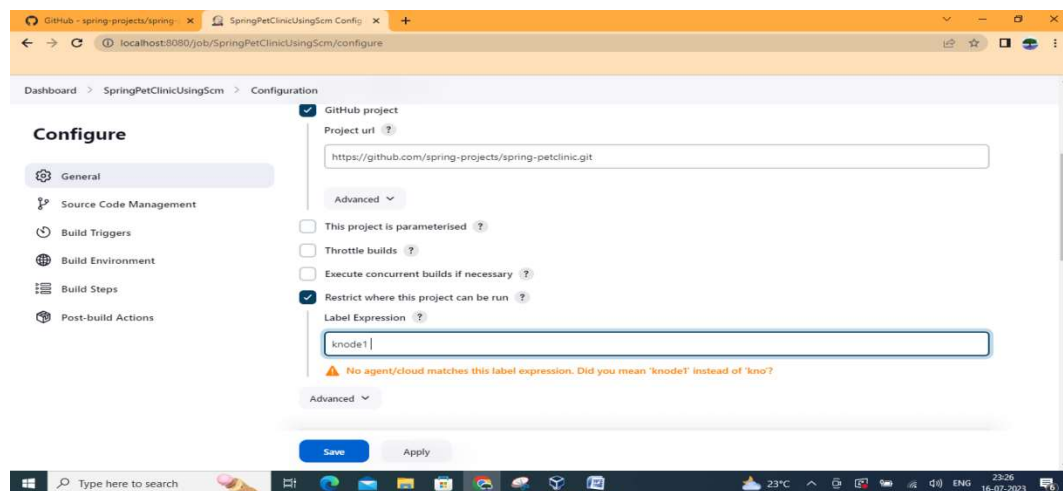
2. Configure the job:

- Under the "General" section, select "GitHub project" and provide the URL of the Spring Pet Clinic repository.
- Repository URL: <https://github.com/spring-projects/spring-petclinic.git>



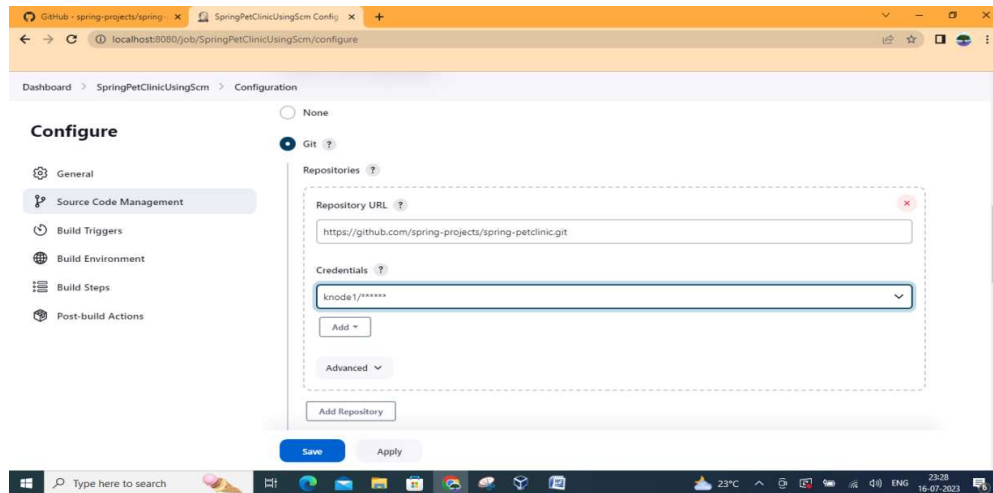
3. Specify the Jenkins slave node (knode1) for the job:

- Under the "Restrict where this project can be run" section, enter "knode1" in the "Label Expression" field. This ensures the job runs on the specified slave node.



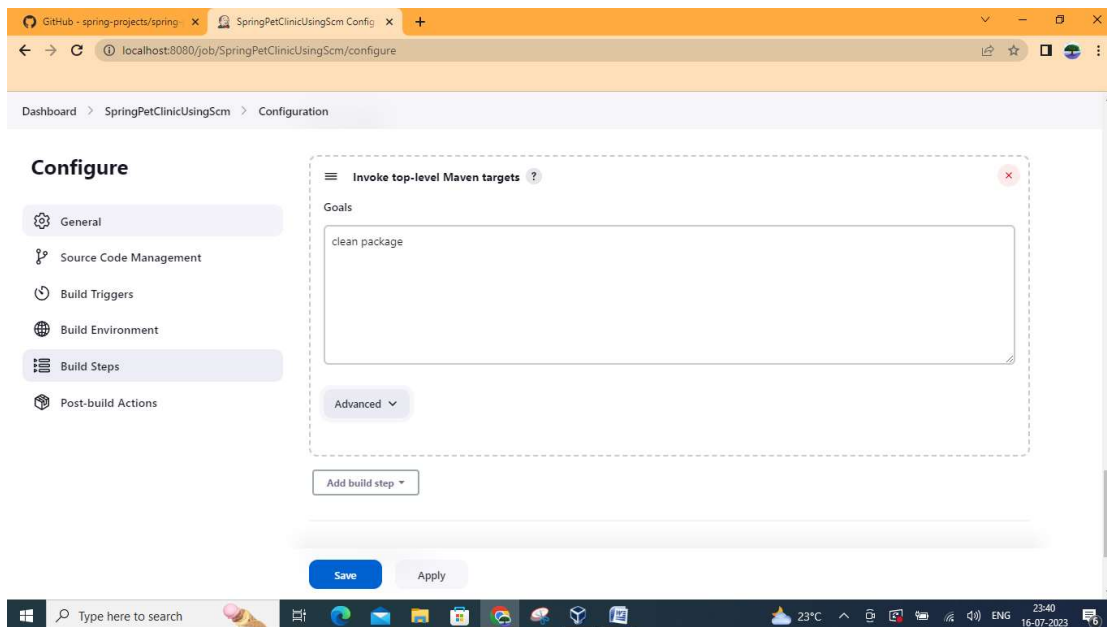
4. Configure source code management:

- Under the "Source Code Management" section, choose "Git."
Repository URL: <https://github.com/spring-projects/spring-petclinic.git>
- Optionally, you can specify credentials if your repository requires authentication.



5. Build the project:

- In the "Build" section, click "Add build step" and choose "Invoke top-level Maven targets."
- Set the "Goals" field to `clean package` to build the Spring Pet Clinic application.



- This command will clean the project and package it into a deployable artifact (usually a JAR or WAR file).

6. Save the job configuration.

Step 2: Configure Poll SCM

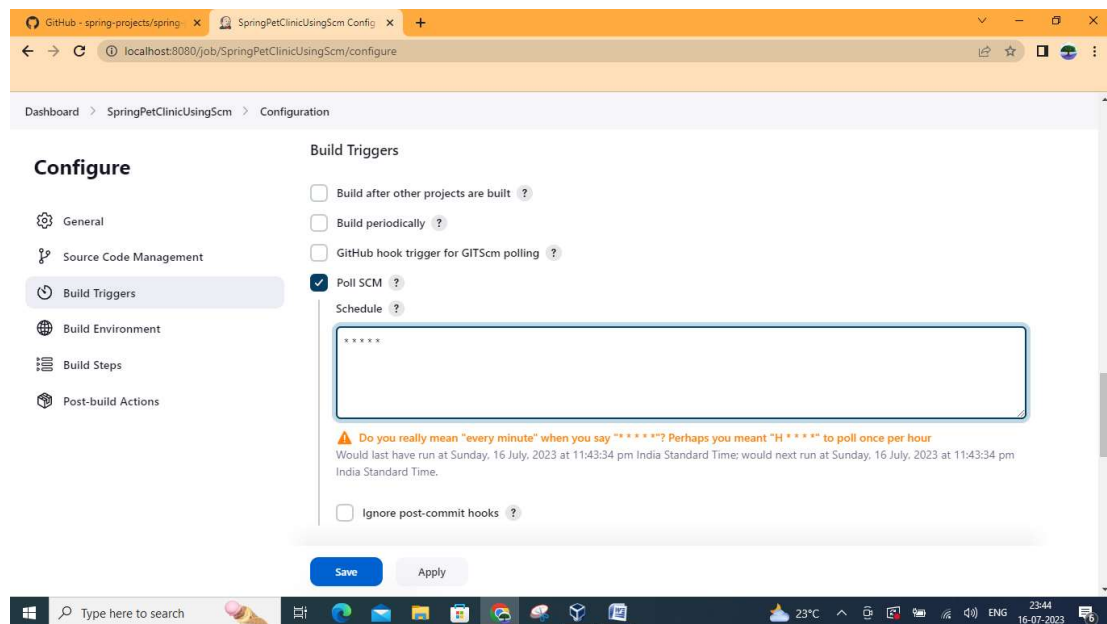
1. Enable Poll SCM:

- Go to the job configuration page.
- In the "Build Triggers" section, check the option "Poll SCM."

2. Set Polling Schedule:

- In the "Schedule" field, provide the polling schedule in cron format. For example, to poll every 1 minute, use `* * * * *`.
- This means Jenkins will check for changes in the repository every 5 minutes and trigger a build if there are any new changes.

3. Save the job configuration



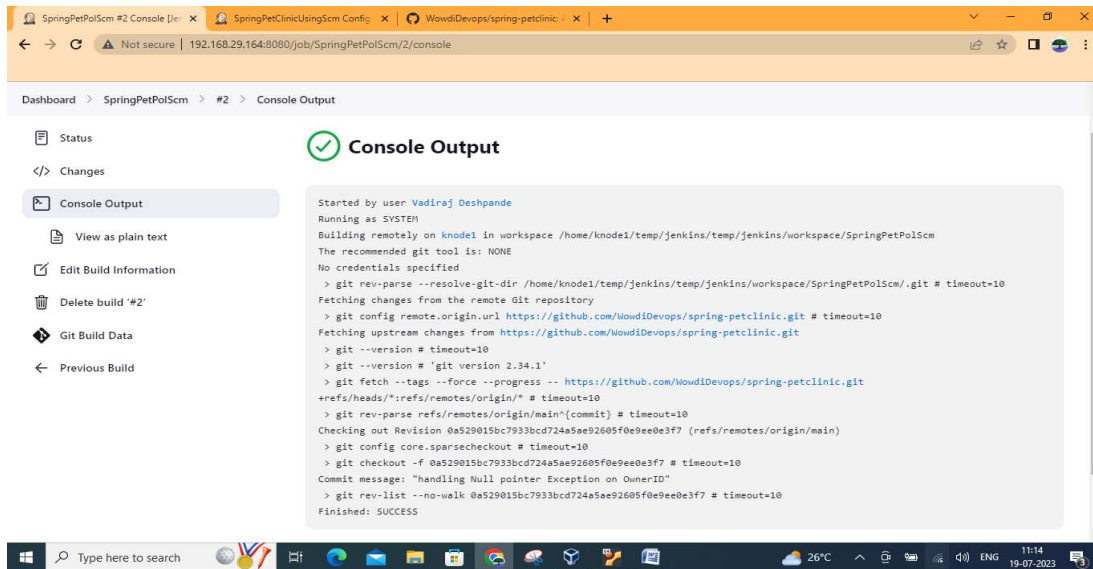
Step 3: Test the configuration

1. Manually run the Jenkins job:

- Go back to the Jenkins dashboard and click on your "SpringPetClinic" job.
- Click on "Build Now" to trigger a manual build.

2. Verify the build status:

- Once the build is completed, check the "Console Output" to ensure that the project was built successfully.



```
Started by user Vadiraj Deshpande
Running as SYSTEM
Building remotely on knode1 in workspace /home/knode1/temp/jenkins/temp/jenkins/workspace/SpringPetPolScm
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /home/knode1/temp/jenkins/temp/jenkins/workspace/SpringPetPolScm/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/WowdiDevops/spring-petclinic.git # timeout=10
Fetching upstream changes from https://github.com/WowdiDevops/spring-petclinic.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
> git fetch --tags --force --progress -- https://github.com/WowdiDevops/spring-petclinic.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision @a529015bc7933bcd724a5ae92605f0e9ee0e3f7 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f @a529015bc7933bcd724a5ae92605f0e9ee0e3f7 # timeout=10
Commit message: "handling Null pointer Exception on OwnerID"
> git rev-list --no-walk @a529015bc7933bcd724a5ae92605f0e9ee0e3f7 # timeout=10
Finished: SUCCESS
```

3. Polling SCM:

- Wait for the scheduled polling (based on the configured schedule) to trigger an automatic build. Jenkins will check for changes in the Spring Pet Clinic repository and build the project if there are any new commits.

With these steps, you have set up Jenkins to build the Spring Pet Clinic application using the Jenkins slave node "knode1" and configured poll SCM to trigger builds automatically based on the specified schedule. The Spring Pet Clinic repository link is: <https://github.com/spring-projects/spring-petclinic.git>