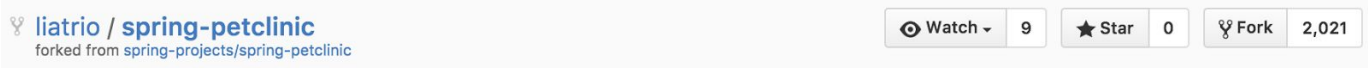
Chapter 3

Lab 3.3 - Create a Build Job

1. Navigate to the “Spring PetClinic” sample application on GitHub at https://github.com/liatrio/spring-petclinic.

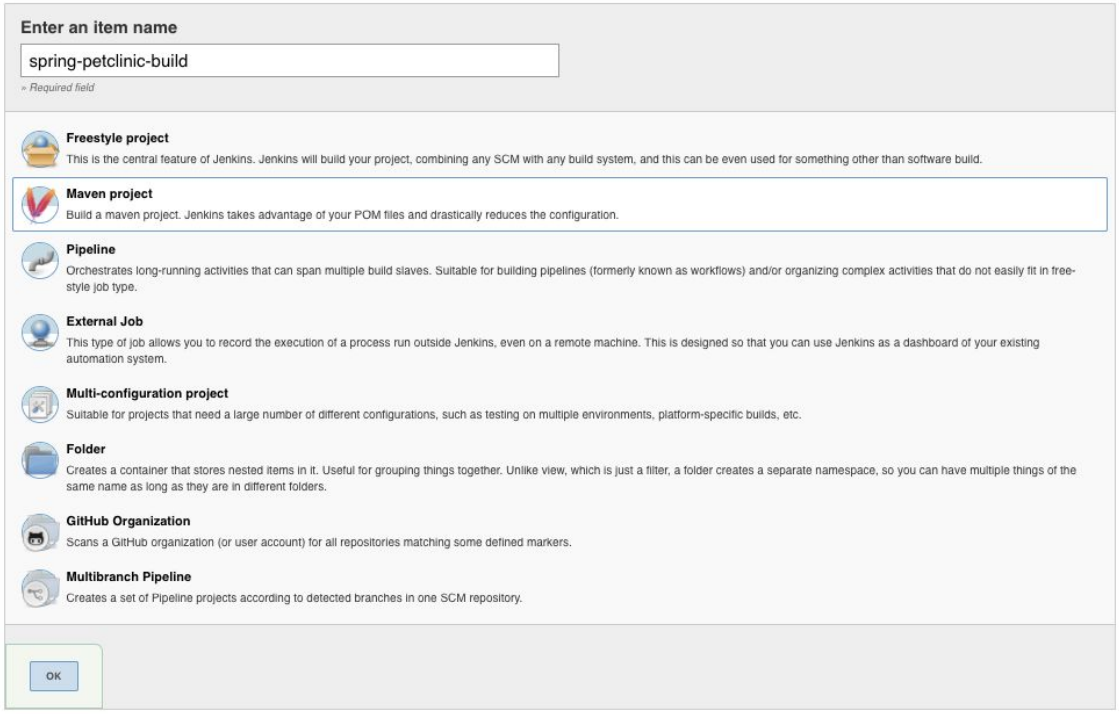
2. Fork “spring-petclinic” by clicking the “Fork” button at the top right corner.



3. If prompted, select the repository.

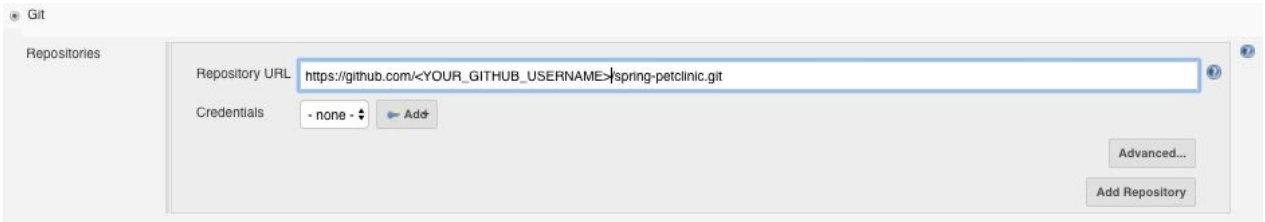
4. In Jenkins, select “New Item” to create a new job.

5. Enter a name for the job, such as **`spring-petclinic-build`**. Click on “Maven project” to specify that the job will be built using Maven. Click on “OK”.

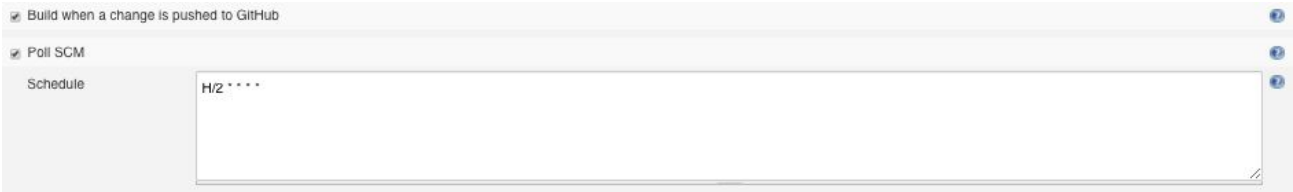


6. Select “GitHub project” and specify the fork’s URL in “Project url” field.

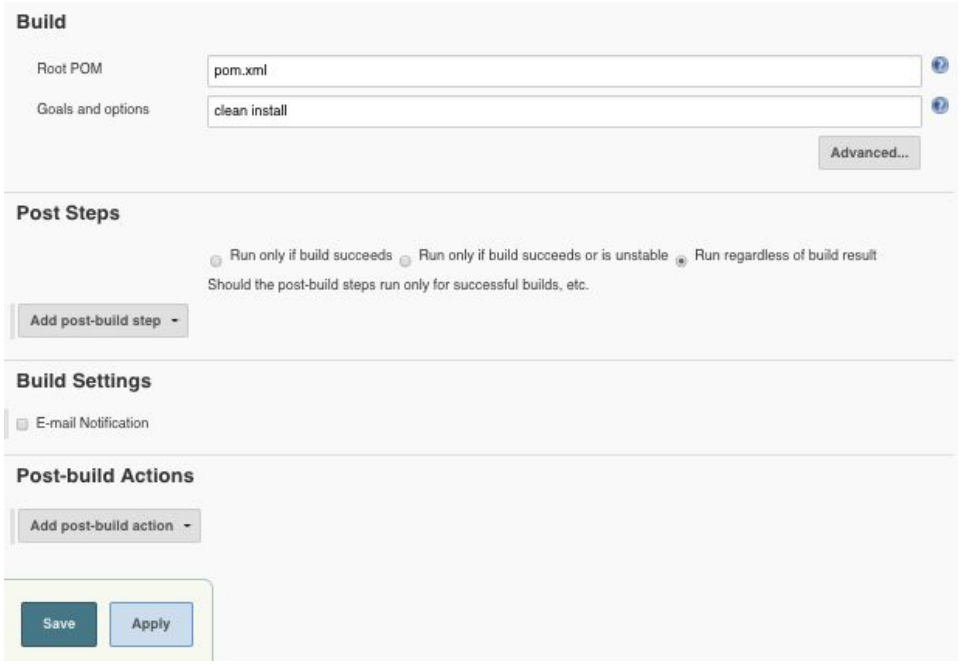
7. Under “Source Code Management” select “Git” and specify the fork's URL in “Repository URL” field.



8. Under “Build Triggers” check “Build when a change is pushed to GitHub” and “Poll SCM”. Under “Poll SCM” specify `H/2 * * * *` to poll the SCM every 2 minutes.



9. Under “Build” specify the “Goals and options” as `clean install`. Click on “Save”.



10. In Jenkins' home, the “spring-petclinic-build” should build within 2 minutes successfully. Optionally, click the clock icon on the far right to schedule a build.

11. To test the automatic build job, clone the repository:

```
$ git clone https://github.com/<GITHUB_USERNAME>/spring-petclinic.git
```

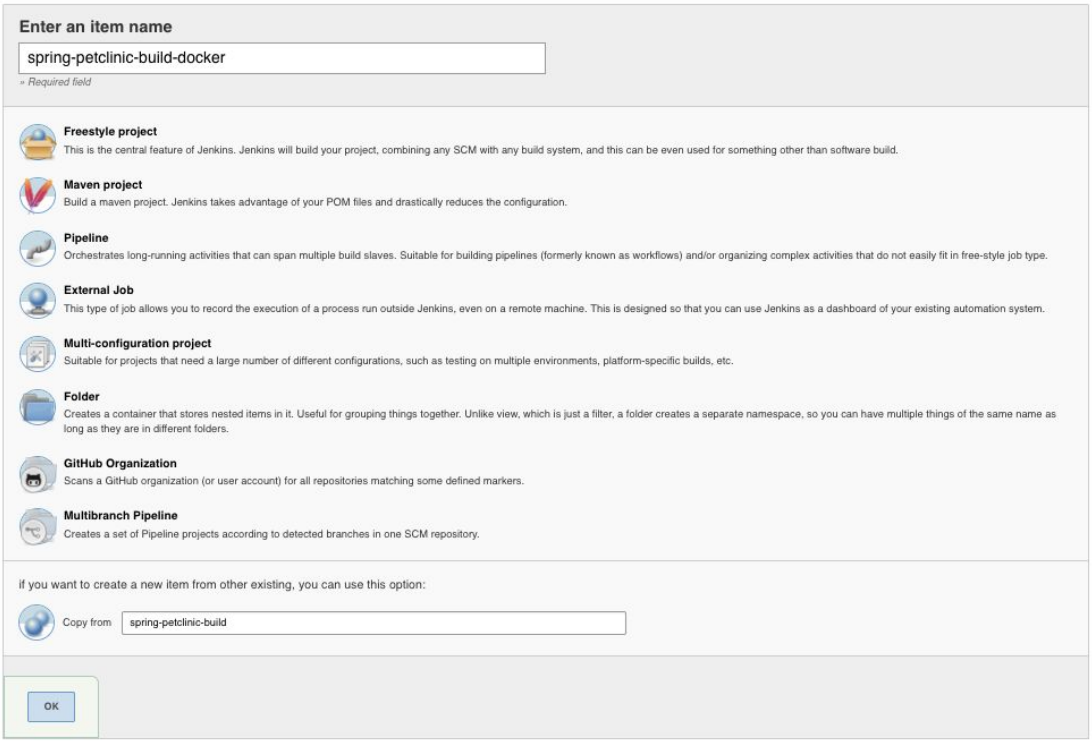

12. Make a change to the **`README.md`** file and commit the change to GitHub:

```
$ cd spring-petclinic/
$ echo 'Jenkins is fun' | tee -a readme.md
$ git add .
$ git commit -m 'Changed readme.md'
$ git push origin master
```

13. Check to see in Jenkins' home that the build job was triggered and built successfully.

14. Click on “New Item” from Jenkins' home page.

15. Clone the “spring-petclinic-build” job to “spring-petclinic-build-docker”. It will be used in Lab 3.6. Click on “OK”, and then “Save”.



Advanced Builds with Jenkins

Now that you have seen a simple manual Jenkins job creation, read more about how to automate the creation and management of many Jenkins jobs. For further information, please review these two documents created by Liatrio: Automating Jenkins and Blue Ocean Pipeline Automation.

