Continuous Delivery

Lab 1

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1.0

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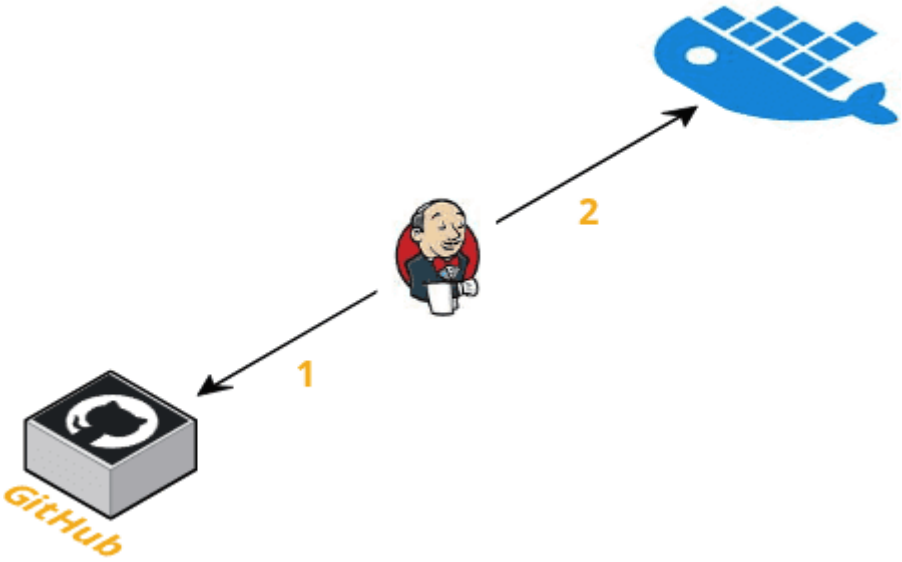
Prerequisites

Students will need a computer with:

- An Amazon Workspaces login (see your instructor for details)

Lab 1

The goal of this lab is very simple. We will setup a pipeline on Jenkins that detects source changes. When changes are detected (1), we will build a Docker image and upload it to a Docker registry (2)



Step 1: Login to GitHub

- In your workspaces session, open a web browser and login to github: http://github.com

> **TIP** If you don't have a GitHub account, go to http://github.com and create a free account

Step 2: Fork the lab1 repo

- Go to this url: https://github.com/RoundTower-io/cd_workshop_lab1
- Fork the repo by clicking on the "Fork" button in the upper right of the screen.
- This will create a copy of the lab1 repo under your own GitHub id

Step 3: Clone a copy of the lab1 repo

- In your workspace session, open a new terminal window by clicking on the Powershell icon.

- Make a local copy of the repo by cloning it with the following command

```
git clone https://github.com/<your user name>/cd_workshop_lab1.git
```

Step 4: Update the Jenkinsfile

- Go to the home directory of your new repo

```
cd cd_workshop_lab1
```

- Now edit the file `Jenkinsfile`

```
atom Jenkinsfile
```

- Change every occurrence of `training99` to your training ID (assigned by the instructor).
- Save and exit the file

Step 5: Commit Changes and Push to Central Repository

- First, change the working directory.

```
cd ~/cd_workshop_lab1
```

- Next, add all altered files to the change set.

```
git add .
```

- Next, commit the changes.

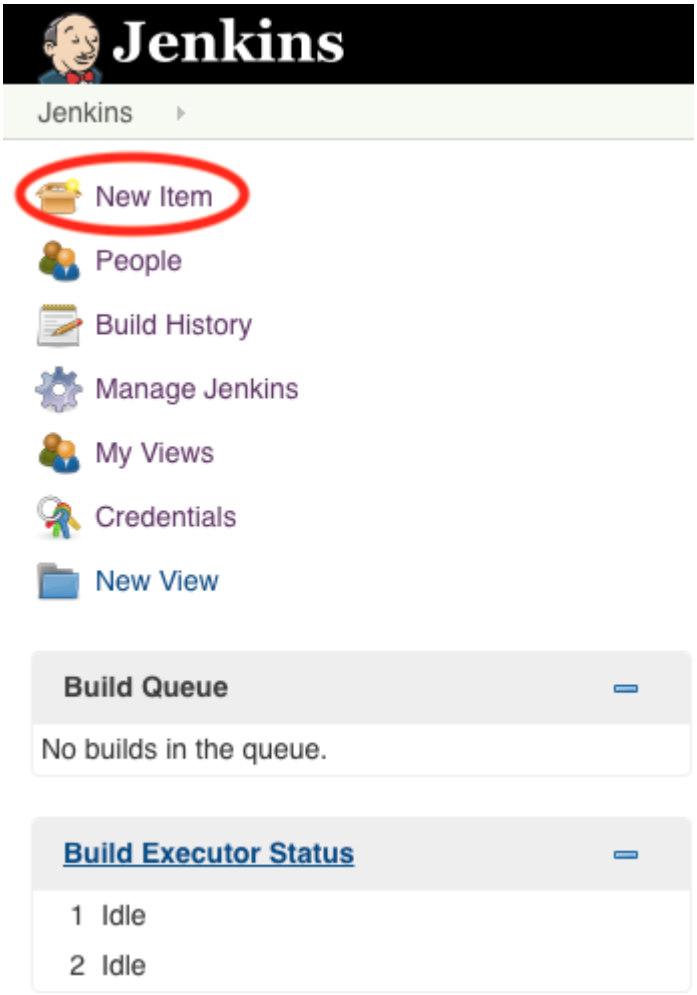
```
git commit -m "Updated Jenkinsfile"
```

- Last, push the change to GitHub.

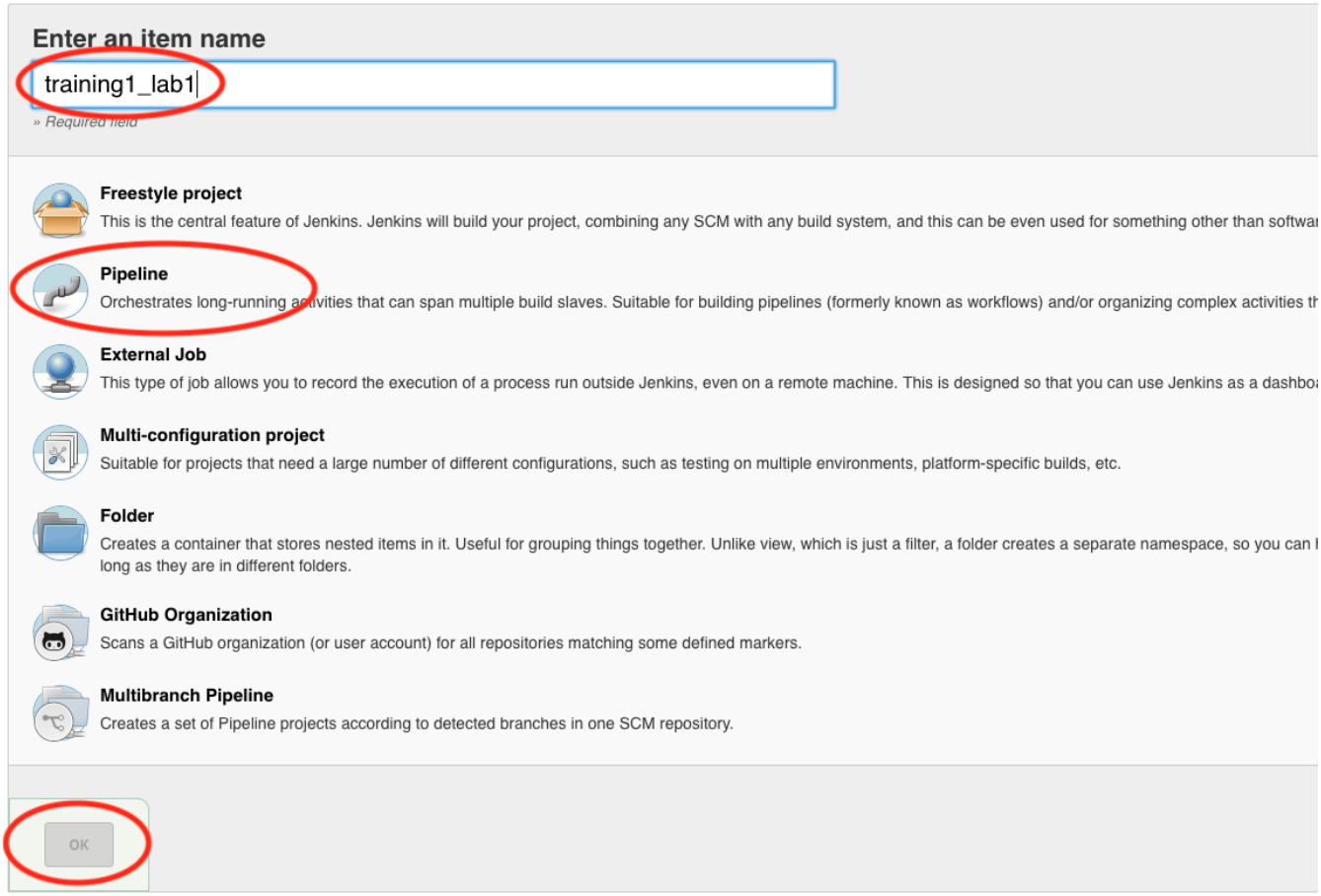
```
git push
```

Step 6: Setup a Jenkins pipeline

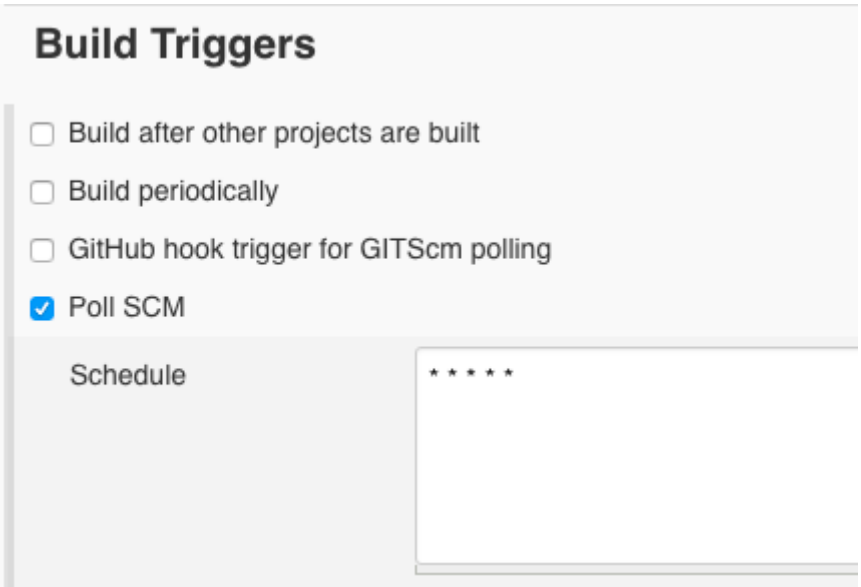
- Login to Jenkins at http://jenkins.roundtower.io
- Login using your assigned training id (get it from your instructor).
- Click on the "New Item" option on the main menu



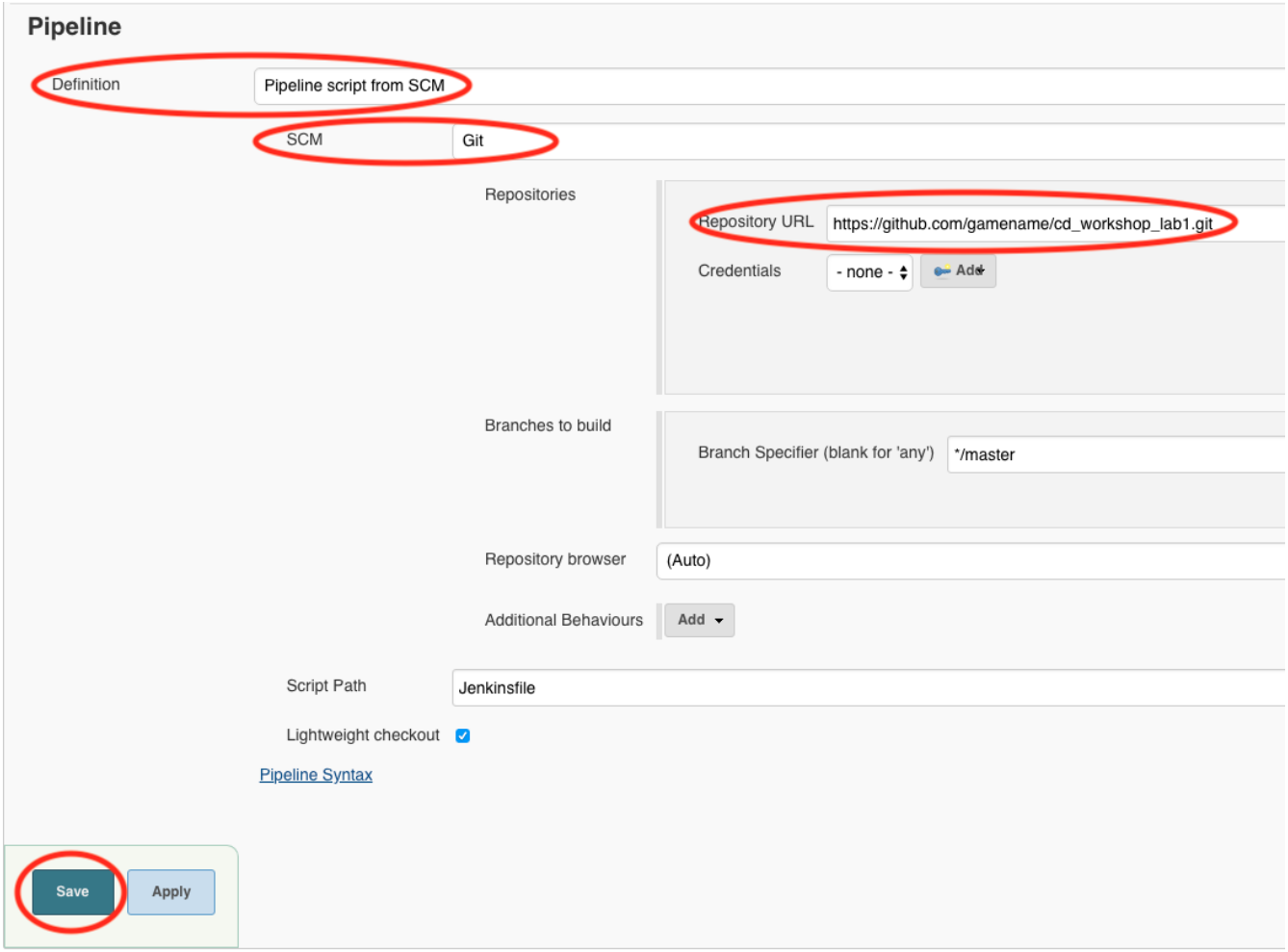
- Name your new pipeline `<your training id>_lab1` and select `pipeline` as the type. Then click `ok` to save it.



- Next, click on the `Poll SCM` option (about halfway down the page) and enter 5 asterisks in the field. This will cause Jenkins to look at GitHub once per minute for changes. If changes are found, then the pipeline will run.



- At the bottom of the page, set the `Definition` field to `Pipeline script from SCM`, then set the `SCM` field to `Git`. Put your lab1 url in the `Repository URL` field. Finally, click on `Save` to save all your work.



- At this point, you should see your pipeline run automatically. If so, you will see output something like this