Continuous Delivery

Lab 2

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1.0

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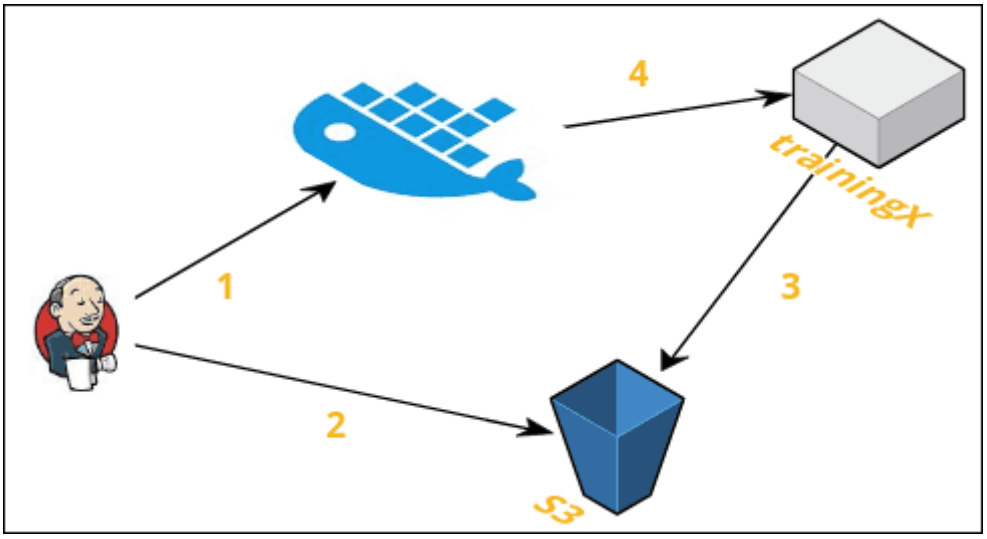
Prerequisites

Students will need a computer with:

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

Lab 2

Lab2 will extract the tag of the latest docker image (1 below) in the registry and then stage it to an s3 bucket (2 below). On each instance, there is a cron job that will read the s3 bucket once per minute (3 below). If the tag in the bucket is newer than the currently-running website, then the instance will pull an image from the registry (4 below). The idea is to provide a way for Jenkins to control when a training instance updates to a new version of the website.



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 lab2 repo

- Go to this url: https://github.com/RoundTower-io/cd_workshop_lab2
- Fork the repo by clicking on the "Fork" button in the upper right of the screen.
- This will create a copy of the lab2 repo under your own GitHub id

Step 3: Clone a copy of the lab2 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_lab2.git
```

Step 4: Update the Jenkinsfile

- Go to the home directory of your new repo

```
cd cd_workshop_lab2
```

- 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_lab2
```

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

```
git add .
```

- Next, commit the changes.

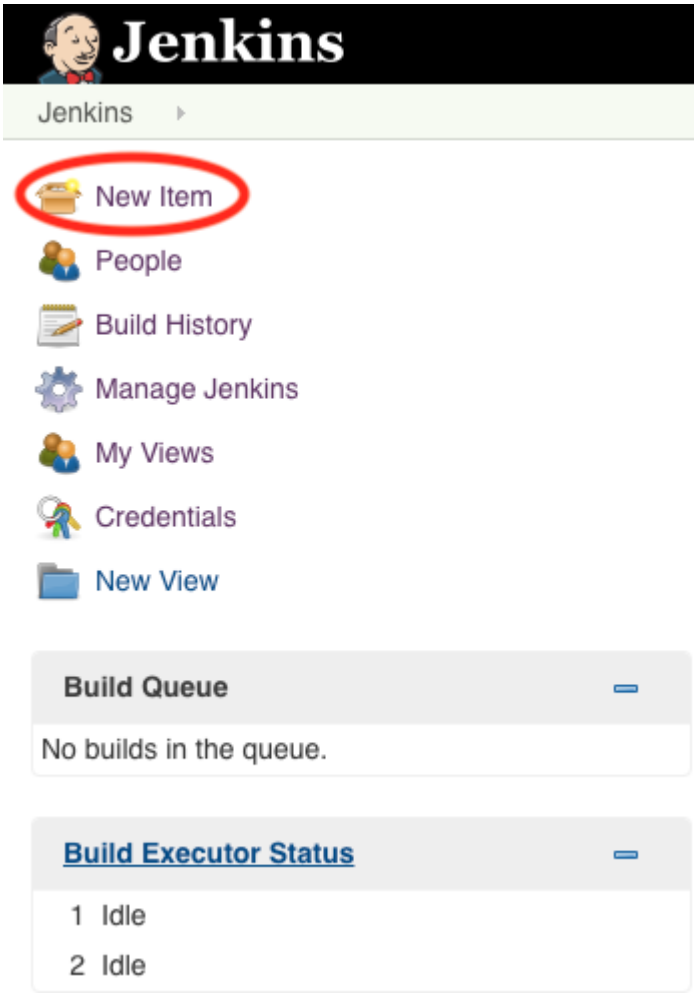
```
git commit -m "Updated Jenkinsfile"
```

- Last, push the change to GitHub.

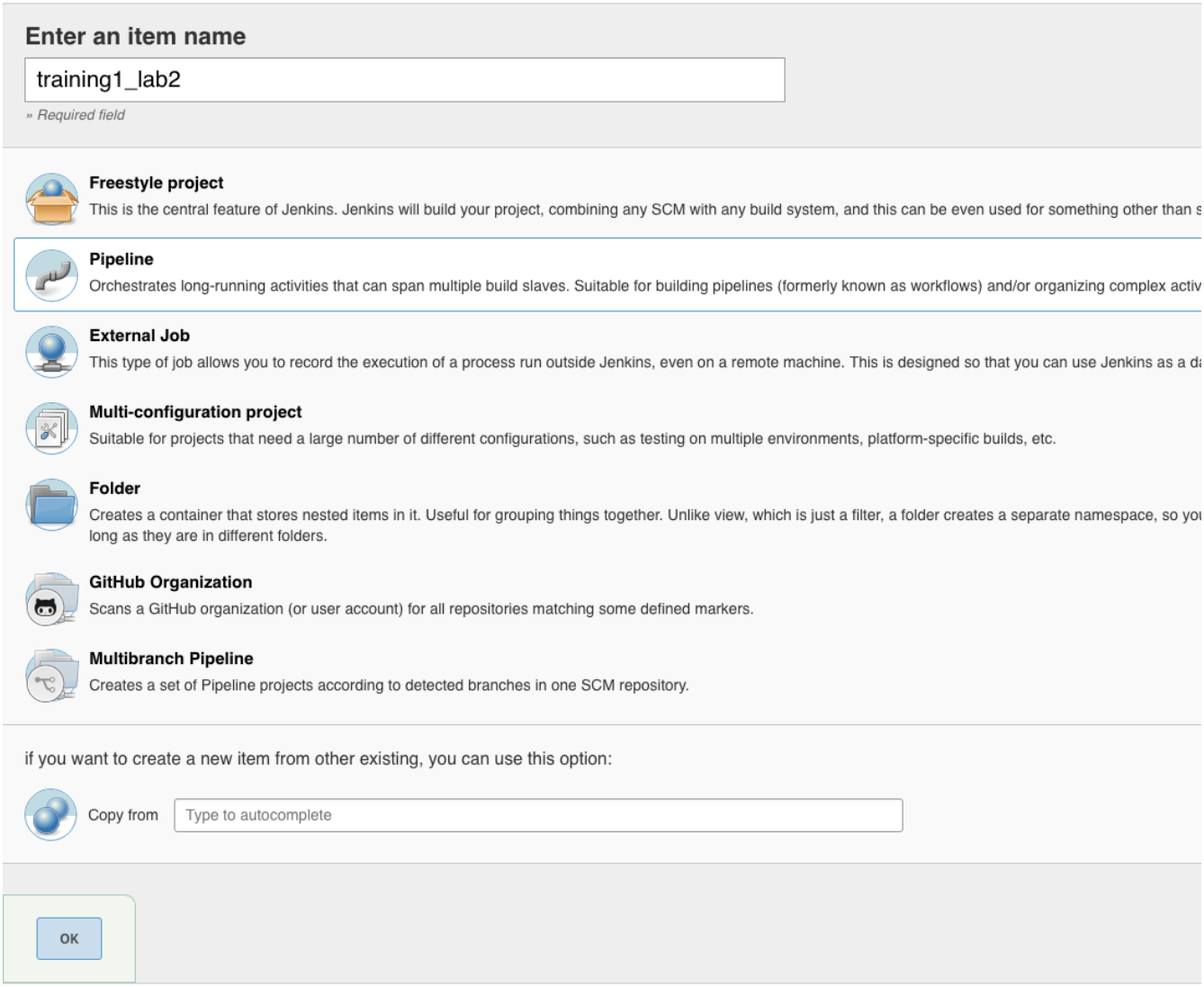
```
git push
```

Step 6: Setup a Jenkins pipeline

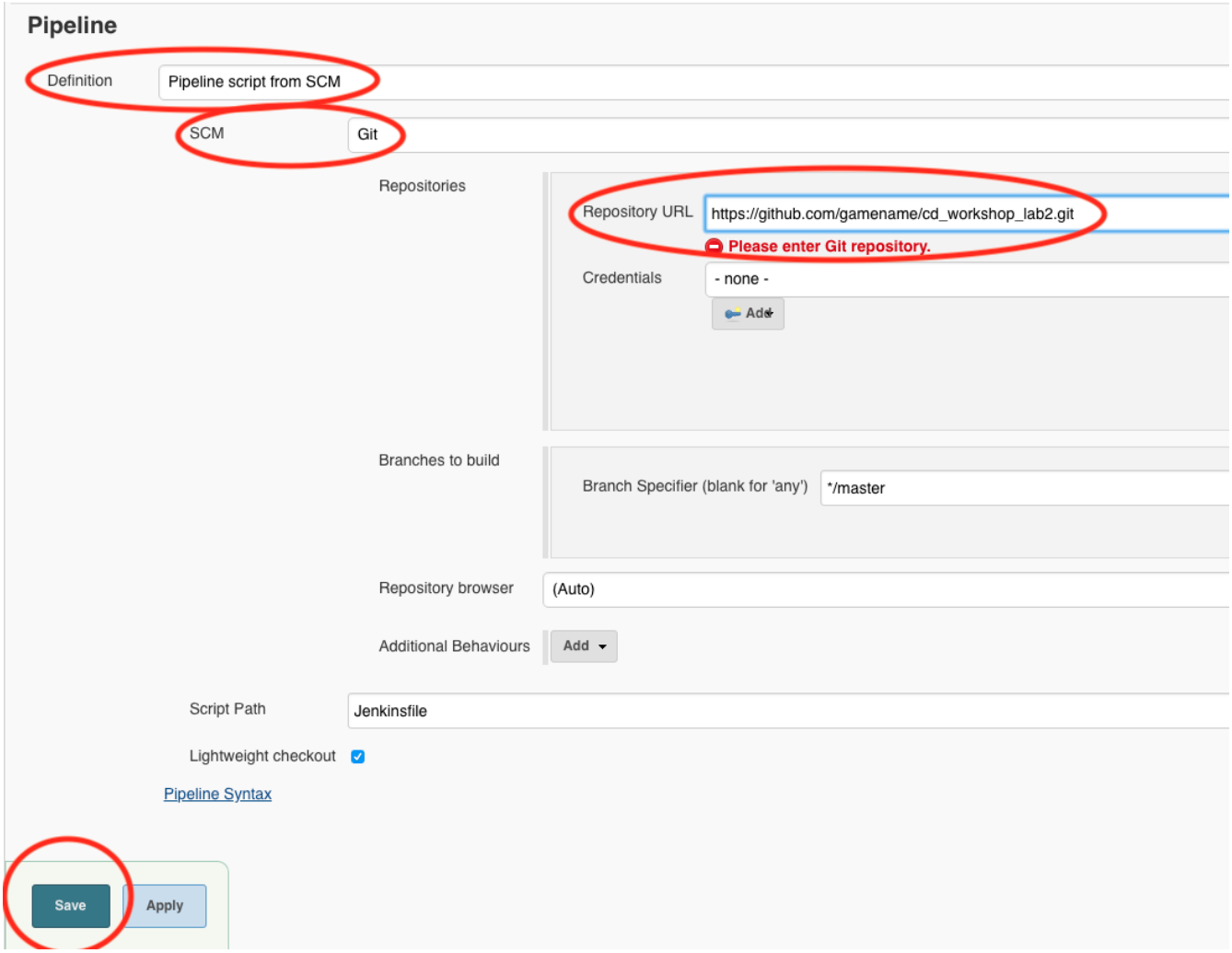
- Login to Jenkins at http://jenkins.roundtower.io
- Login using your assigned training id (get it from your instructor).
- Click on the "New Item" option on the main menu



- Name your new pipeline `<your training id>_lab2` and select `pipeline` as the type. Then click `ok` to save it.



- At the bottom of the page, set the `Definition` field to `Pipeline script from SCM`, then set the `SCM` field to `Git`. Put your lab2 url in the `Repository URL` field. Finally, click on `Save` to save all your work.

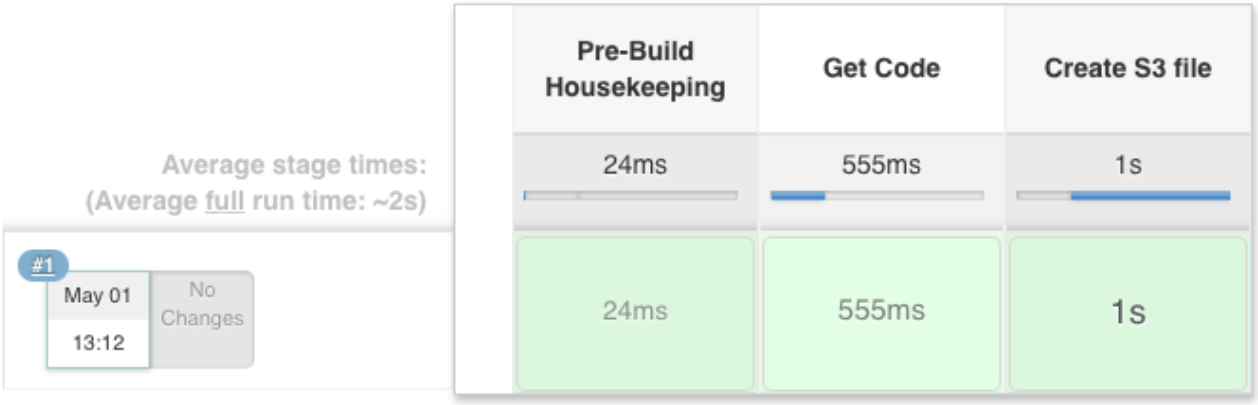


- Click `Build Now` on the upper left of the screen.
- After the build, click on your `trainingX_lab2` link on the dashboard. You should see output something like this:

Pipeline training1_lab2

Recent Changes

Stage View



Step 7: Access website

- Go to the following URL based on your training ID number, http://trainingX.roundtower.io. For example, if you are assigned `training1`, then the url would be http://training1.roundtower.io
- You should see something like this