

# Continuous Delivery

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1.0

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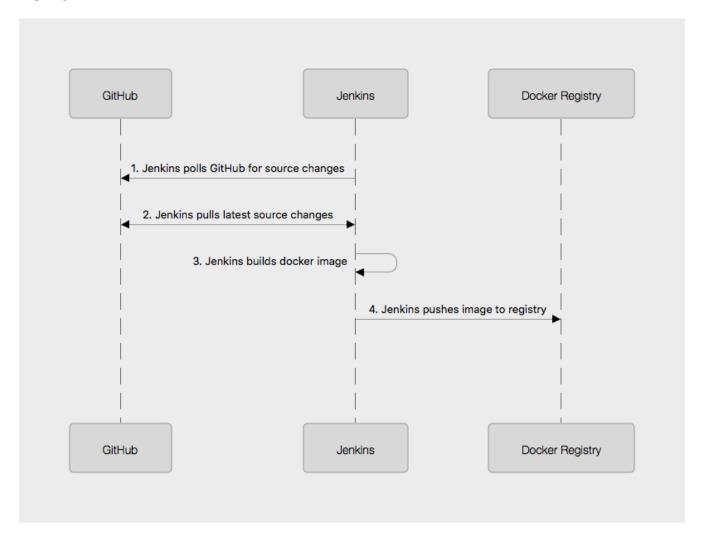
## **Prerequisites**

Students will need a computer with:

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

## Lab 1

Lab 1 will cause a new docker image to be built. Jenkins will poll GitHub (1 below). If there has been a source update (or if someone manually builds the pipeline), then Jenkins will pull the latest source (2 below) and build the image (3 below). Once built, the image is then pushed to the docker registry (4 below).



### **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.

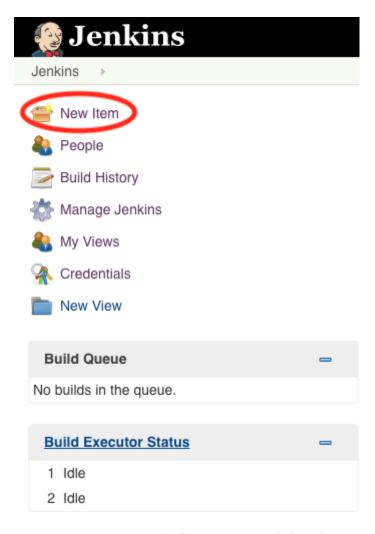
git commit -m "Updated Jenkinsfile"

• Last, push the change to GitHub.

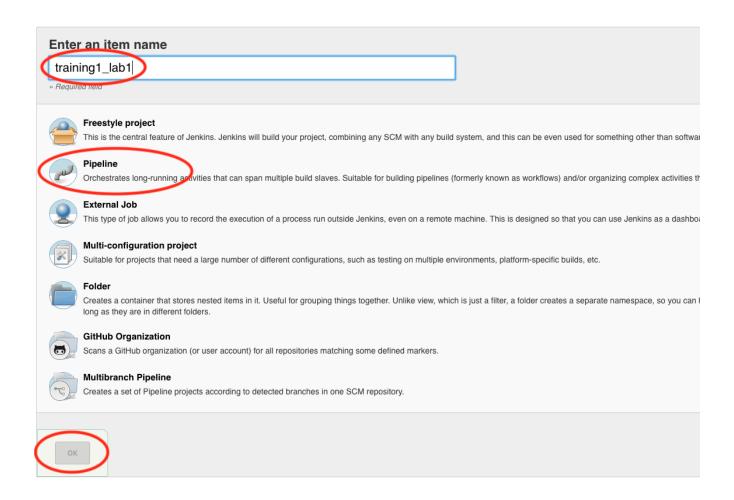
git push

### Step 6: Setup a Jenkins pipeline

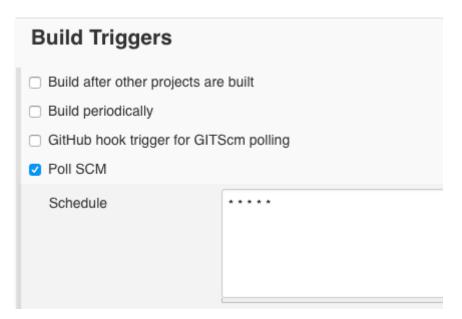
- Login to Jenkins at http://jenkins.roundtower.io
- Login using your assigned training id (get it from your instructor).
- Click on the "New Item" option on the main menu



• 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.

Pipeline			
Definition	Pipeline script from SCM	>	
	SCM	Git	
		Repositories	Repository URL https://github.com/gamename/cd_workshop_lab1.git
			Credentials - none - ♦
		Branches to build	Branch Specifier (blank for 'any') */master
		Repository browser	(Auto)
		Additional Behaviours	Add ▼
	Script Path	Jenkinsfile	
	Lightweight checkout		
	Pipeline Syntax		
Save			

- At this point, you should see your pipeline run automatically. If not, click on Build Now on the upper left of the screen.
- After the build, click on your trainingX\_lab1 link on the dashboard. You should see output something like this:

## Pipeline training1\_lab1



#### Stage View

