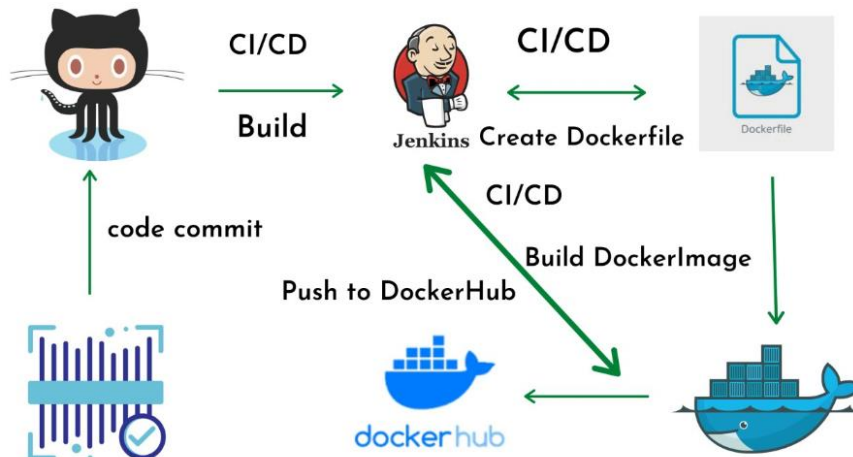


CI/CD Pipeline – Foundation Lab



Create a Nginx image for company XYZ

This lab seeks to help company XYZ to provision their website as a container.

In order to achieve this , you have been contracted to create an image from the existing code base.

Follow the instructions below:

1. Create a directory named WebServer
2. Use the file web.html as the web page.
3. Copy the web.html file into the nginx image. (COPY command)
4. Use the nginx daemon off -g group command in your dockerfile. (hint use the CMD command)
5. Expose the image to port 8080
6. Build image from the dockerfile and call it my_pod_image (use docker build command and tag it web_site)

Ensure the image is sent to the Docker hub.

Your deployment file should consider the following:

7. Create 2 pods from the image my_pod_image ensure you bind the ports 80 to 8080.

CI/CD using Jenkins:

8. Create a git repository and push it to GitHub and ensure that you have a Jenkins pipeline that will use the Dockerfile to create an image.
9. Use the Kubernetes plugin to create the pods from the deployment file that will be pushed to the GitHub.
10. Check the logs of each pod and provide screenshots.
11. Provide screenshots of the pods created.