Lab-4

Docker Build and Push Using GitHub Actions

Step 1 → Fork and clone the GitHub repository

Step 2 → Create Docker Hub Access Token

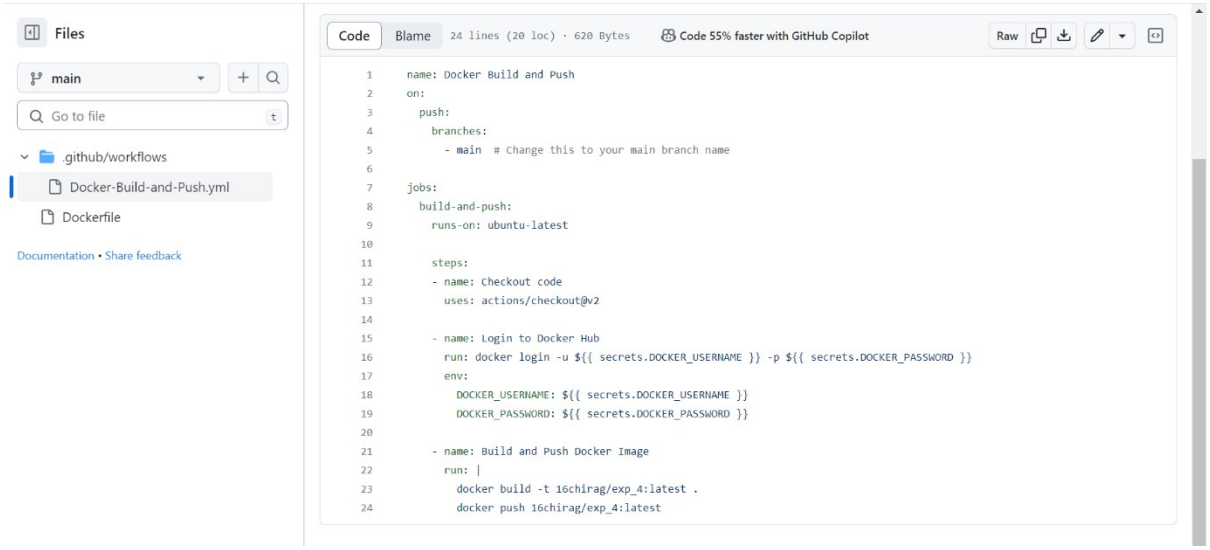
• Log in to your Docker Hub account.

• Go to your account settings and click on the “Security” tab

• Under "Access Tokens," click "New Access Token." Give it a name, select the required permissions (e.g.,"Write" for pushing Docker images), and click "Create."

• Copy the generated access token. You will need it to authenticate with Docker Hub in your GitHub Actions workflow.

Step 3 → Crete GitHub Action workflow



Step 4 → Add Docker Hub Credentials to GitHub Secrets

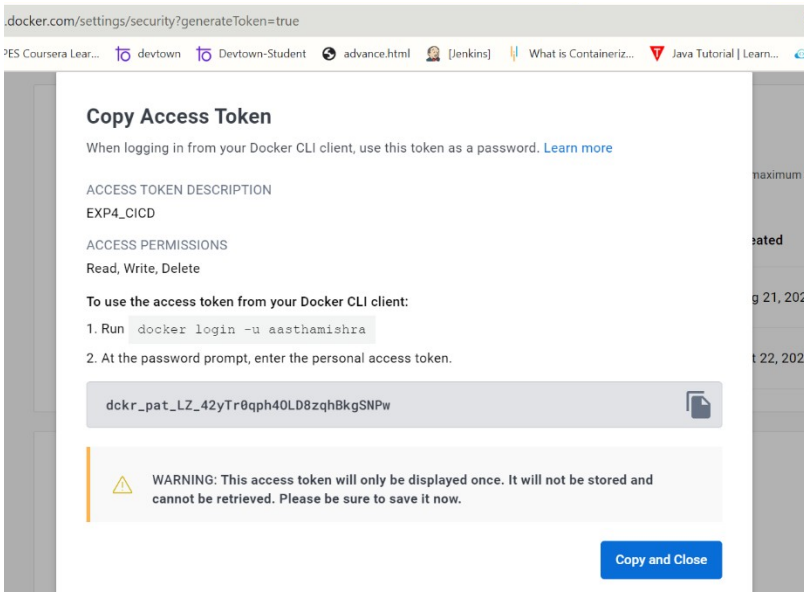
• Go to your GitHub repository on the GitHub website.

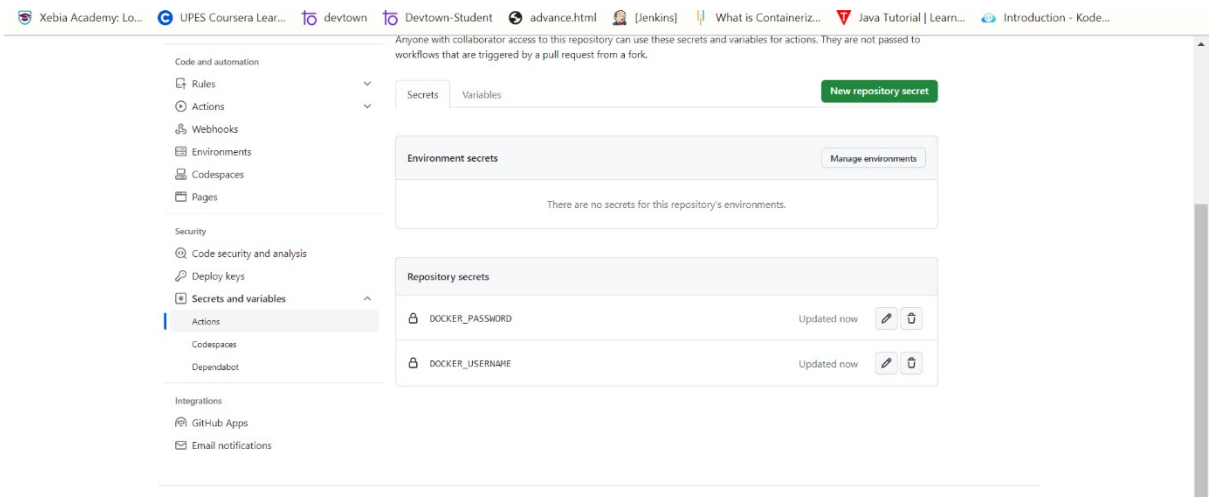
• Click on "Settings" and then "Secrets" in the left sidebar.

• Click on "New repository secret" and add two secrets:

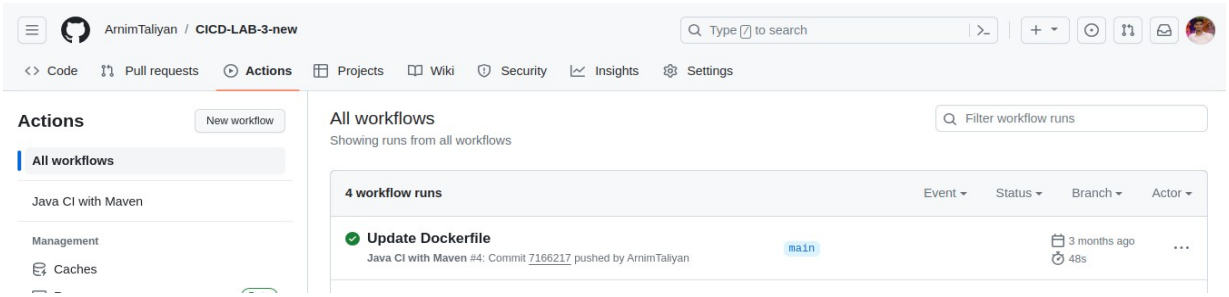
• DOCKER_USERNAME: Set this to your Docker Hub username.

• DOCKER_PASSWORD: Set this to the Docker Hub access token you generated earlier.





Step 6 → Check workflow status



Step 7 → Verify the Docker Image on Docker Hub