Assignment4

10 October 2022   01:38

Automate Assignment below task using github action.

Build Docker Image
Push Docker Image to Docker hub.

After Pushing Your Project files(including Dockerfile) into the GitHub Repository

Step 1: In your Repository

Goto Settings --> Secrets --> Actions--> New Repository Secret

Store your Docker Password

Step 2: Goto Actions --> New workflow

Click on Docker Image Configure

Docker image
By GitHub Actions

Build a Docker image to deploy, run, or push to a registry.

Configure   Dockerfile ●

A default YAML template props up

hello-world / .github / workflows / docker-image.yml   in main

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```yaml
1    name: Docker Image CI
2
3    on:
4      push:
5        branches: [ "main" ]
6      pull_request:
7        branches: [ "main" ]
8
9    jobs:
10
11     build:
12
13       runs-on: ubuntu-latest
14
15       steps:
16       - uses: actions/checkout@v3
17       - name: Build the Docker image
18         run: docker build . --file Dockerfile --tag my-image-name:$(date +%s)
19
```

Step 3:
In the Steps - run section,provide these three things:-

- Line 1 - Docker Password and Login credentials
- Docker build image command
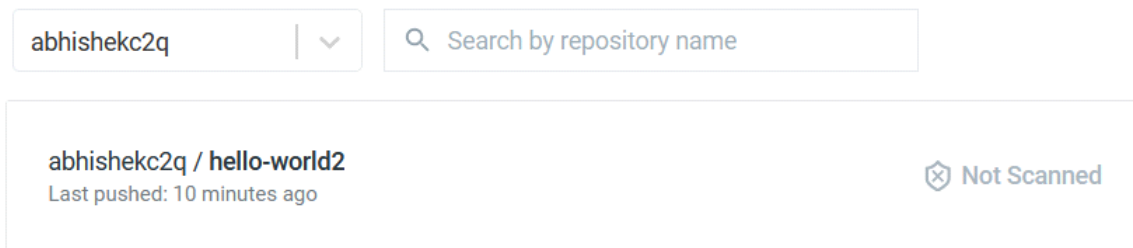- Docker push the image to repository

```yaml
run: |
  echo "${{ secrets.DOCKER_PASSWORD }}" | docker login -u "abhishekc2q" --password-stdin
  docker build -t abhishekc2q/hello-world2 .
  docker push abhishekc2q/hello-world2:latest
```

Then Commit the file

After image is build and uploaded to the Docker repository,check it in Docker Hub

To test :-

docker pull abhishekc2q/hello-world2
docker run -d --name mycontainer -p 80:80 abhishekc2q/hello-world2

In the Browser - http://127.0.0.1/docs