

gh-actions-task

Practical task

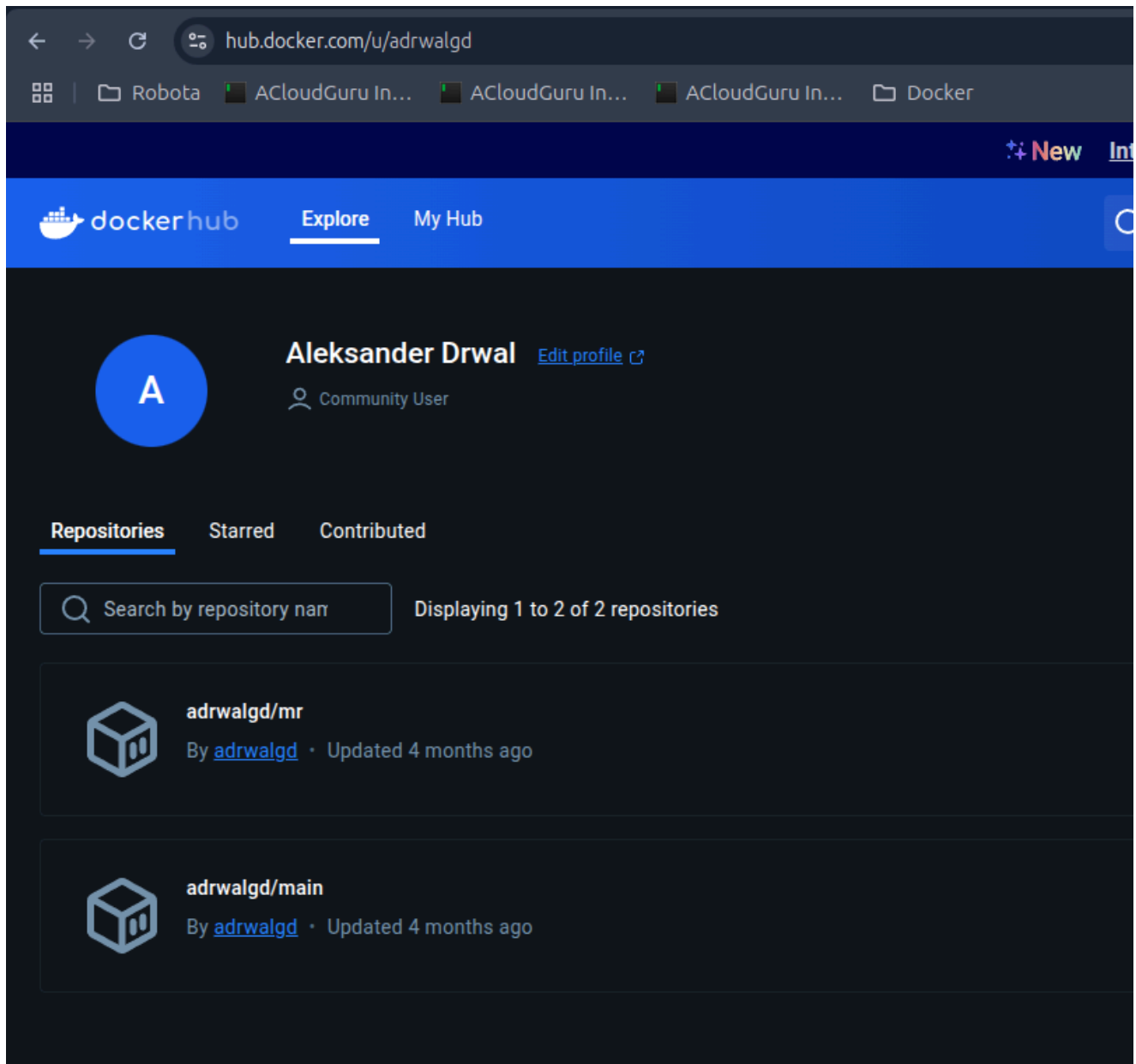
1. Fork spring-petclinic repository in GitHub. Add your Dockerfile.
2. Create 2 docker repositories on your own Nexus Repository ([Instruction](#)) or <https://hub.docker.com/> called "main" and "mr". Alternatively, you can use a container registry provided by a Cloud Provider.
3. Add .github/workflows/build.yml file and describe the following behavior there:
 - a. **The pipeline for a merge request** should include the following jobs:
 - i. Checkstyle: Use [Maven](#) or [Gradle](#) checkstyle plugin to generate a code style report. It should be available as a job artifact.
 - ii. Test (with Maven or Gradle)
 - iii. Build: Build without tests (with Maven or Gradle).

Note: For the first 3 jobs, the GitHub Actions runner can use maven:3.8.5-openjdk-17 docker image.

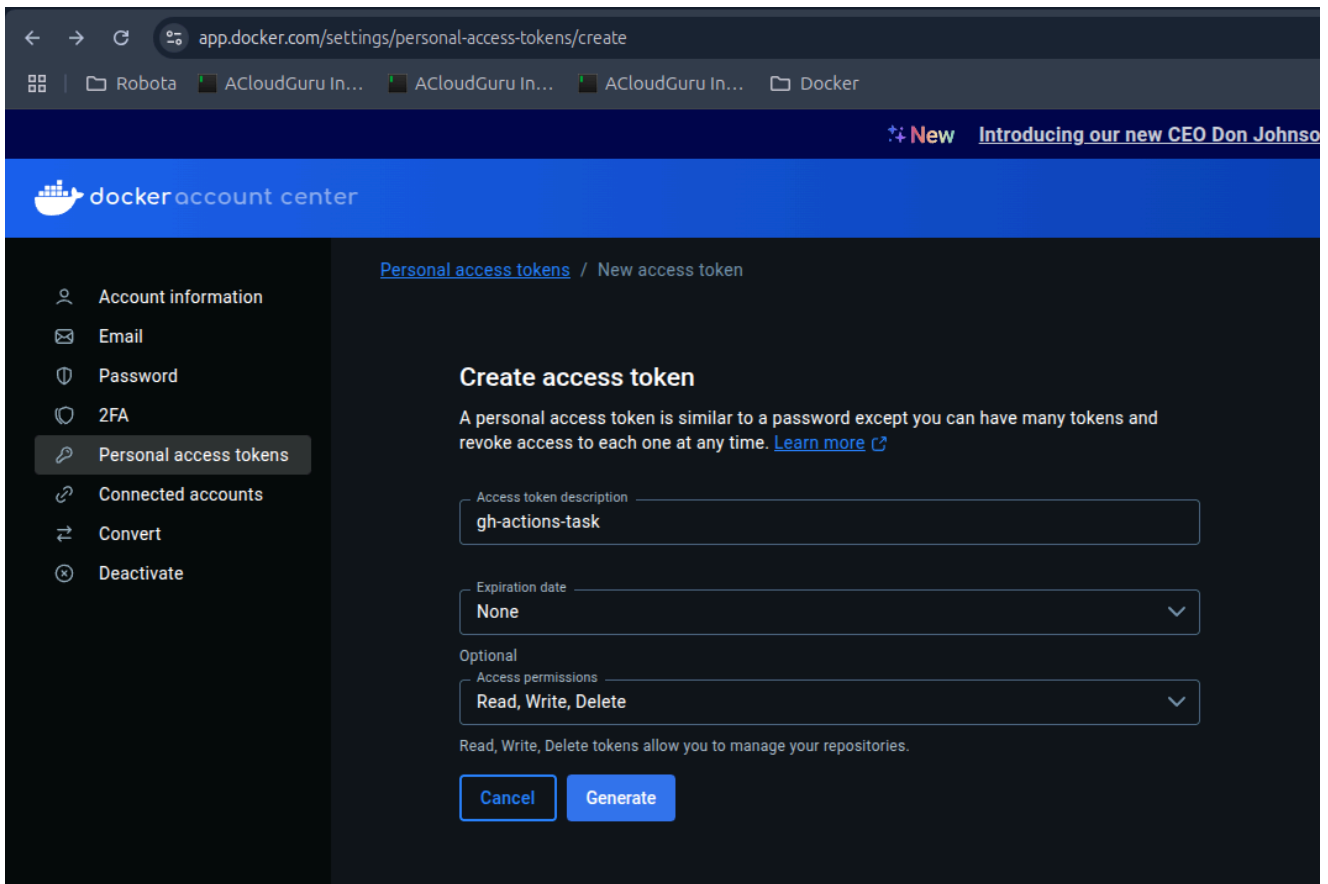
 - iv. Create a docker image: Using your Dockerfile in the spring-petclinic repo, create a docker image with spring-petclinic application, tag it using a unique commit id and push it to the "mr" repository.

Note: <https://github.com/marketplace/actions/build-and-push-docker-images>
 - b. **The pipeline for the main branch** should include the following job:
 - i. Create a docker image: Build a docker image and push it to the "main" repository.

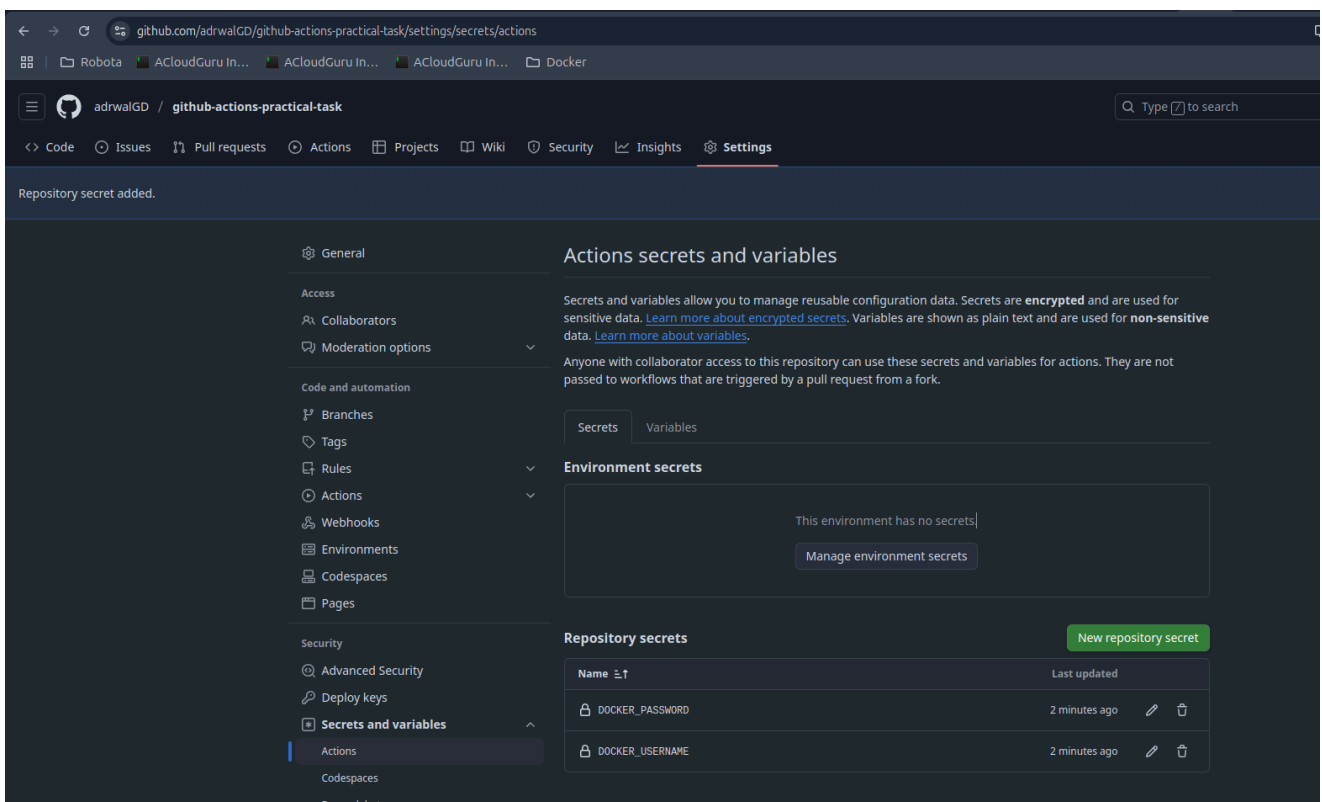
1. Create Docker hub repositories



2. Generate access token to Dockerhub



3. Add generated token and username to Github Secrets



4. Github Action workflow

```
name: CI Pipeline
```

```
on:
  push:
    branches:
      - main
  pull_request:
    branches:
      - '**'

jobs:
  checkstyle:
    name: Checkstyle Report
    runs-on: ubuntu-latest
    container:
      image: maven:3.8.5-openjdk-17
    steps:
      - name: Checkout Code
        uses: actions/checkout@v4

      - name: Run Checkstyle
        run: mvn checkstyle:checkstyle

      - name: Upload Checkstyle Report
        uses: actions/upload-artifact@v4
        with:
          name: checkstyle-report
          path: target/reports/

  test:
    name: Run Tests
    runs-on: ubuntu-latest
    steps:
      - name: Checkout Code
        uses: actions/checkout@v4

      - name: Set up JDK 17
        uses: actions/setup-java@v4
        with:
          java-version: 17
          distribution: 'adopt'
          cache: maven

      - name: Build with Maven Wrapper
        run: ./mvnw test

  build:
    name: Build (Skip Tests)
    runs-on: ubuntu-latest
    container:
      image: maven:3.8.5-openjdk-17
    steps:
```

- **name:** Checkout Code
uses: actions/checkout@v4
- **name:** Build Application (Skip Tests)
run: mvn package -DskipTests

docker-build-mr:

name: Build & Push Docker Image for Merge Request
if: github.event_name == 'pull_request'
runs-on: ubuntu-latest
steps:

- **name:** Checkout Code
uses: actions/checkout@v4
- **name:** Set up Docker Buildx
uses: docker/setup-buildx-action@v1
- **name:** Log in to Docker Registry
uses: docker/login-action@v1
with:
 - username:** \${ secrets.DOCKER_USERNAME }
 - password:** \${ secrets.DOCKER_PASSWORD }
- **name:** Build and Push Docker Image
uses: docker/build-push-action@v2
with:
 - context:** .
 - file:** Dockerfile
 - push:** **true**
 - tags:** \${ secrets.DOCKER_USERNAME }/mr:\${ github.sha }

docker-build-main:

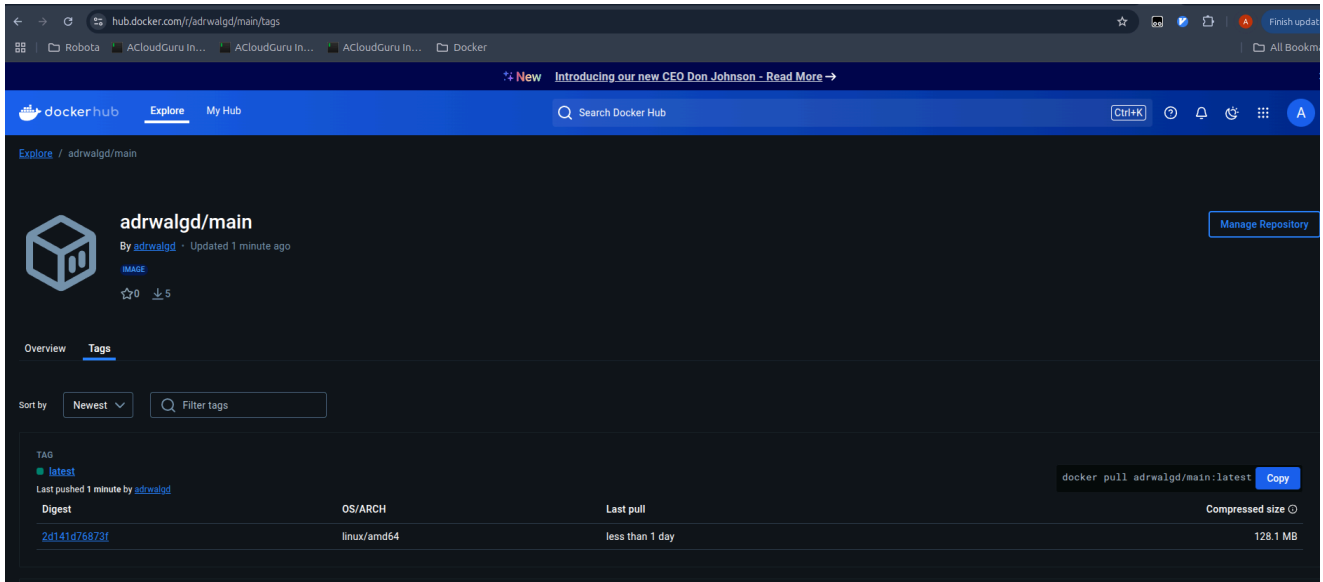
name: Build & Push Docker Image for Main Branch
if: github.ref == 'refs/heads/main'
runs-on: ubuntu-latest
steps:

- **name:** Checkout Code
uses: actions/checkout@v4
- **name:** Set up Docker Buildx
uses: docker/setup-buildx-action@v1
- **name:** Log in to Docker Registry
uses: docker/login-action@v1
with:
 - username:** \${ secrets.DOCKER_USERNAME }
 - password:** \${ secrets.DOCKER_PASSWORD }
- **name:** Build and Push Docker Image
uses: docker/build-push-action@v2

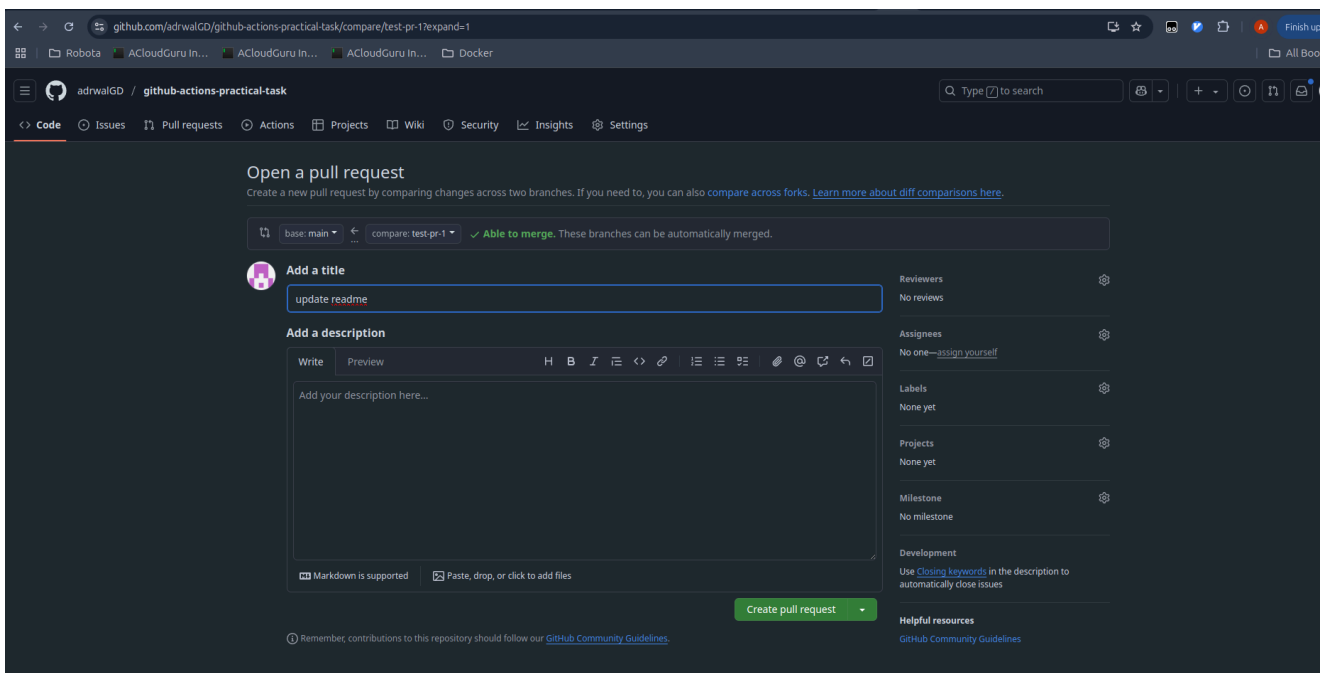
```
with:
  context: .
  file: Dockerfile
  push: true
  tags: ${ secrets.DOCKER_USERNAME }}/main:latest
```

5. Testing

Main branch commit:



Pull request



github.com/adrwalGD/github-actions-practical-task/pull/1

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

update readme #1

Open adrwalGD wants to merge 1 commit into main from test-pr-1

Conversation 0 Commits 1 Checks 0 Files changed 1

adrwalGD commented now

No description provided.

update readme

Some checks haven't completed yet
2 in progress, 2 queued, 1 skipped checks

2 pending checks

- CI Pipeline / Build & Push Docker Image for Merge Request (pull_request) Queued — Waiting to run...
- CI Pipeline / Run Tests (pull_request) Queued — Waiting to run this check...

2 in progress checks

- CI Pipeline / Build (Skip Tests) (pull_request) Started now — This check has started...
- CI Pipeline / Checkstyle Report (pull_request) Started now — This check has started...

1 skipped check

- CI Pipeline / Build & Push Docker Image for Main Branch (pull_request) Skipped now

No conflicts with base branch
Merging can be performed automatically.

Reviewers
No reviews
Still in progress? Convert to draft

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these issues.

Notifications
Unsubscribe
You're receiving notifications because you're watching this repository.

github.com/adrwalGD/github-actions-practical-task/pull/1

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

update readme #1

Open adrwalGD wants to merge 1 commit into main from test-pr-1

Conversation 0 Commits 1 Checks 0 Files changed 1

adrwalGD commented 3 hours ago

No description provided.

update readme

All checks have passed
1 skipped, 4 successful checks

1 skipped check

- CI Pipeline / Build & Push Docker Image for Main Branch (pull_request) Skipped 3 hours ago

4 successful checks

- CI Pipeline / Build (Skip Tests) (pull_request) Successful in 54s
- CI Pipeline / Build & Push Docker Image for Merge Request (pull_request) Successful in 2m
- CI Pipeline / Checkstyle Report (pull_request) Successful in 1m
- CI Pipeline / Run Tests (pull_request) Successful in 1m

No conflicts with base branch
Merging can be performed automatically.

Merge pull request You can also merge this with the command line. View command line instructions.

Reviewers
No reviews
Still in progress? Convert to draft

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these issues.

Notifications
Unsubscribe
You're receiving notifications because you're watching this repository.