

# Домашна 5 – GitHub Actions & GitLab CI/CD

## Part 1:

1. nano index.html

```
GNU nano 8.3 index.html Modified
<!DOCTYPE html>
<html>
  <body>
    <h1>GitHub Actions Homework</h1>
    <p>Example HTML webpage for the KIII course at FINKI.</p>
    <p>The course covers the basic aspects of DevOps engineering.</p>
  </body>
</html>
```

2. nano Dockerfile

```
GNU nano 8.3 Dockerfile Modified
FROM nginx:stable
COPY index.html /usr/share/nginx/html/index.html
```

3. mkdir .github/workflows
4. cd .github/workflows
5. nano superlinter.yml

```
GNU nano 8.3 superlinter.yml Modified
name: Super-Linter

on:
  push:

jobs:
  super-lint:
    name: Lint code base
    runs-on: ubuntu-latest

    steps:
      - name: Checkout code
        uses: actions/checkout@v3

      - name: Clean Docker cache
        run: docker image prune -af

      - name: Run Super-Linter
        uses: github/super-linter@v4
        env:
          DEFAULT_BRANCH: master
          GITHUB_TOKEN: ${ secrets.GITHUB_TOKEN }
```

6. Finished Super-Linter

← Super-Linter

✓ Fixed another naming issue in superlinter.yml file #4 Re-run all jobs ...

Summary

Jobs

✓ Lint code base

Run details

Usage

Workflow file

Triggered via push 4 minutes ago

Marko-Ivanovski pushed → 29b3877 master

Status: Success

Total duration: 2m 55s

Artifacts: —

superlinter.yml

on: push

✓ Lint code base 2m 49s

[-] [-] [+]

## 7. nano dockerhub.yml

```
GNU nano 8.3 dockerhub.yml Modified
name: dockerhub

on:
  push:

jobs:
  docker:
    runs-on: ubuntu-latest
    steps:
      - name: Set up QEMU
        uses: docker/setup-qemu-action@v1

      - name: Set up Docker Buildx
        uses: docker/setup-buildx-action@v1

      - name: Login to DockerHub
        uses: docker/login-action@v1
        with:
          username: ${ secrets.DOCKERHUB_USERNAME }
          password: ${ secrets.DOCKERHUB_TOKEN }

      - name: Build and push
        id: docker_build
        uses: docker/build-push-action@v2
        with:
          push: true
          tags: markoivanovsk1/kiii-domasna-5:latest

      - name: Image digest
        run: echo ${ steps.docker_build.outputs.digest }
```

## 8. Docker Secrets

Repository secrets New repository secret

Name ↕	Last updated		
🔒 DOCKERHUB_TOKEN	3 minutes ago	✎	🗑
🔒 DOCKERHUB_USERNAME	3 minutes ago	✎	🗑

## 9. Successful Docker Hub and GitHub Actions

The screenshot shows a GitHub Actions workflow run for a repository named 'dockerhub'. The workflow is titled 'Added new dockerhub.yml file #1' and has a status of 'Success'. It was triggered via a push 3 minutes ago. The workflow consists of a single job named 'docker' which took 18 seconds to complete. The workflow file 'dockerhub.yml' is shown with the trigger 'on: push'.

Summary

Jobs

- docker

Run details

- Usage
- Workflow file

Triggered via push 3 minutes ago

Status: Success

Total duration: 24s

Artifacts: -

dockerhub.yml

on: push

docker 18s

The screenshot shows the Docker Hub repository page for 'markoivanovsk1/kiii-domasna-5'. The repository is public and has a size of 69 MB. It was last pushed 3 minutes ago. The page shows the 'General' tab with a table of tags. The 'latest' tag is the only one listed, with a type of 'Image', pulled less than 1 day ago, and pushed 3 minutes ago. The page also features a 'Docker commands' section with a command to push a new tag to the repository. A sidebar on the left contains navigation links for Repositories, Settings, Default privacy, Notifications, Billing, Usage, Pulls, and Storage. A 'buildcloud' banner is visible on the right side of the page.

markoivanovsk1 / kiii-domasna-5

Last pushed 3 minutes ago · Repository size: 69 MB

Add a description

Add a category

Using 0 of 1 private repositories. [Get more](#)

Docker commands

To push a new tag to this repository:

```
docker push markoivanovsk1/kiii-domasna-5:tagname
```

General Tags Image Management BETA Collaborators Webhooks Settings

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	less than 1 day	3 minutes

[See all](#)

DOCKER SCOUT INACTIVE [Activate](#)

buildcloud

Build with Docker Build Cloud

Accelerate image build times with access to cloud-based builders and shared cache.

Docker Build Cloud executes builds on optimally-dimensioned cloud infrastructure with dedicated per-organization isolation.

Get faster builds through shared caching across your team, native multi-platform support, and encrypted data transfer - all without managing infrastructure.

## Part 2:

### 1. nano .gitlab-ci.yml

```
GNU nano 8.3 .gitlab-ci.yml Modified
docker-build:
  image: docker:latest
  stage: build
  services:
    - docker:dind
  before_script:
    - docker login -u "$CI_REGISTRY_USER" -p "$CI_REGISTRY_PASSWORD" $CI_REGISTRY

  script:
    - docker build --pull -t "$CI_REGISTRY_IMAGE" .
    - docker push "$CI_REGISTRY_IMAGE"

  rules:
    - if: $CI_COMMIT_BRANCH
      exists:
        - Dockerfile
```

## 2. CI Build

Marko Ivanovski / kiii-domasna-5 / Jobs

All 5 Finished

Search or filter jobs...

Status	Job	Pipeline	Coverage
Passed 00:00:46 26 seconds ago	#9842821441: docker-build master adc23772	#1788758937 created by Stage: build	

## 3. Docker Hub

markoivanovsk1  
Docker Personal

Repositories  
Settings  
Default privacy  
Notifications  
Billing  
Usage  
Pulls  
Storage

Repositories / kiii-domasna-5 / General

markoivanovsk1/kiii-domasna-5  
Last pushed 1 minute ago · Repository size: 69.1 MB

Add a description  
Add a category

Docker commands  
To push a new tag to this repository:  
docker push markoivanovsk1/kiii-domasna-5:tagname

Public view

General Tags Image Management BETA Collaborators Webhooks Settings

Tags  
This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	less than 1 day	1 minute

See all

DOCKER SCOUT INACTIVE  
Activate

buildcloud  
Build with Docker Build Cloud  
Accelerate image build times with access to cloud-based builders and shared cache.  
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Get faster builds through shared caching across your team, native multi-platform support, and encrypted data transfer - all without managing infrastructure.