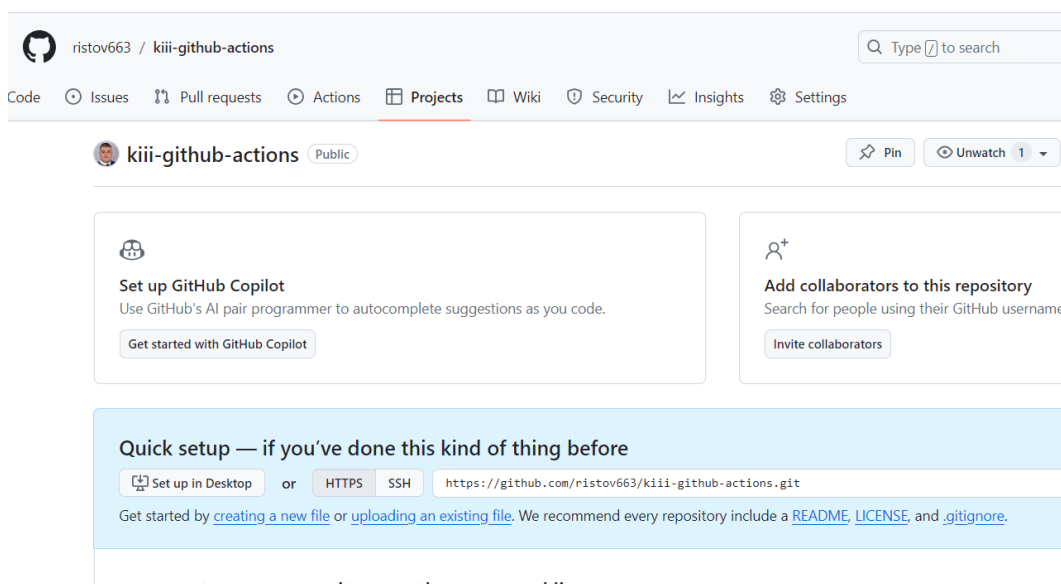# Class Assignment / Homework V

Part 1: GitHub Actions

1. **Create a new repository on GitHub, then add the Dockerfile and the index.html files to it, from the exercise repository;**
2. **Create one Action in the repo using the Super-Linter;**
3. **Extend the Action to include a Docker image building and pushing to Docker Hub;**

```
GNU nano 6.2                                                    index.html *
<!DOCTYPE html>
<html>
  <body>
    <h1>GitHub Actions</h1>
    <p>Example HTML webpage for the KIII course at FINKI.</p>
    <p>The course cover the basic aspects of DevOps engineering.</p>
  </body>
</html>
```
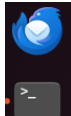
```
GNU nano 6.2                                                    Dockerfile *
FROM nginx:stable
COPY index.html /usr/share/nginx/html/index.html
```

```
bojan@bojan-VirtualBox:~/kiii-github-actions$
bojan@bojan-VirtualBox:~/kiii-github-actions$ git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Dockerfile
        index.html

nothing added to commit but untracked files present (use "git add" to track)
bojan@bojan-VirtualBox:~/kiii-github-actions$ git add Dockerfile
bojan@bojan-VirtualBox:~/kiii-github-actions$ git add index.html
bojan@bojan-VirtualBox:~/kiii-github-actions$
bojan@bojan-VirtualBox:~/kiii-github-actions$ git commit -m "First commit of this repo"
[main (root-commit) 8d2602a] First commit of this repo
 2 files changed, 10 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 index.html
bojan@bojan-VirtualBox:~/kiii-github-actions$ git push
Username for 'https://github.com': ristov663
Password for 'https://ristov663@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 6 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 480 bytes | 480.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ristov663/kiii-github-actions
 * [new branch]      main -> main
bojan@bojan-VirtualBox:~/kiii-github-actions$
```

ristov663 / kiii-github-actions

<> Code   Issues   Pull requests   Actions   Projects   Wiki   Security   Insights   Settings

kiii-github-actions Public

main   1 Branch   0 Tags   Go to file   <> Code

ristov663 First commit of this repo   8d2602a · 7 minutes ago   1 Commits

Dockerfile   First commit of this repo   7 minutes ago
index.html   First commit of this repo   7 minutes ago

README

About

No description, website, or provided.

Activity
0 stars
1 watching
0 forks

---

ristov663 / kiii-github-actions

<> Code   Issues   Pull requests   Actions   Projects   Wiki   Security   Insights   Settings

kiii-github-actions / .github / workflows / super-linter.yml   in main

Cancel changes   Commit changes...

Edit   Preview   Spaces   2   No wrap

```
1   # This workflow executes several linters on changed files based on languages used in your code base whenev
2   # you push a code or open a pull request.
3   #
4   # You can adjust the behavior by modifying this file.
5   # For more information, see:
6   # https://github.com/github/super-linter
7   name: Lint Code Base
8
9   on:
10    push:
11      branches: [ "main" ]
12    pull_request:
13      branches: [ "main" ]
14  jobs:
15    run-lint:
16      runs-on: ubuntu-latest
17      steps:
18        - name: Checkout code
19          uses: actions/checkout@v3
```

Marketplace   Documentation

Search Marketplace for Actions

Featured Actions

Cache   ☆ 4.2k
By actions
Cache artifacts like dependencies and build outputs to improve workflow execution time

Setup Node.js environment   ☆ 3.6k
By actions
Setup a Node.js environment by adding problem matchers and optionally downloading and adding it to the PATH

Setup Java JDK   ☆ 1.4k
By actions

---

ristov663 / kiii-github-actions

<> Code   Issues   Pull requests   Actions   Projects   Wiki   Security   Insights   Settings

kiii-github-actions / .github / workflows /

Cancel changes   Commit changes...

Edit   Preview

Commit changes   ✕

Commit message

Create super-linter.yml

Extended description

Add an optional extended description..

○ Commit directly to the main branch
○ Create a new branch for this commit and start a pull request   Learn more about pull requests

Cancel   Commit changes

```
1   # This workflow executes several linters
2   # you push a code or open a pull request
3   #
4   # You can adjust the behavior by modifyi
5   # For more information, see:
6   # https://github.com/github/super-linter
7   name: Lint Code Base
8
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Use Control + Shift + m to toggle the tab key moving focus. Alternatively, use esc then tab to move to the next interactive

Marketplace   Documentation

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Setup Java JDK   ☆ 1.4k
By actions
Set up a specific version of

← Lint Code Base

✓ **Create super-linter.yml** #1

Re-run all jobs   ···

⌂ Summary

Jobs

✓ run-lint

Run details

⏱ Usage

⎙ Workflow file

run-lint
succeeded now in 1m 40s

Beta Give feedback   🔍 Search logs   ⚙

> ✓ Set up job   1s

> ✓ Pull ghcr.io/github/super-linter:v4.10.0   1m 26s

> ✓ Checkout code   1s

> ✓ Lint Code Base   10s

> ✓ Post Checkout code   0s

> ✓ Complete job   0s

---

kiii-github-actions / **index.html** ⎘   ···

👤 **ristov663** Update index.html   9cf900e · now   �途 History

| Code | Blame | 9 lines (9 loc) · 235 Bytes   Raw ⎘ ⬇ ✎ ▾   <>

```
1    <!DOCTYPE html>
2    <html>
3      <body>
4        <h1>GitHub Actions</h1>
5        <p>Example HTML webpage for the KIII course at FINKI.</p>
6        <p>The course cover the basic aspects of DevOps engineering.</p>
7        <p>LIne with error!!!</p>
8      </body>
9    </html>
```

← Lint Code Base

✗ **Update index.html** #2

⟳ Re-run jobs ▾   ···

⌂ Summary

Jobs

✗ run-lint

Run details

⏱ Usage

⎙ Workflow file

run-lint
failed now in 1m 47s

Beta Give feedback   🔍 Search logs   ⟳ ⚙

> ✓ Set up job   1s

> ✓ Pull ghcr.io/github/super-linter:v4.10.0   1m 32s

> ✓ Checkout code   0s

> ✗ Lint Code Base   9s

> ✓ Post Checkout code   0s

> ✓ Complete job   0s

Actions   Projects   Wiki   Security   Insights   Settings

All workflows
Showing runs from all workflows

Filter workflow runs

3 workflow runs		Event ▾	Status ▾	Branch ▾	Actor ▾

✅ **Second update on index.html**
Lint Code Base #3: Commit 22bf011 pushed by ristov663   `main`   📅 7 minutes ago   ⏱ 1m 59s   ⋯

❌ **Update index.html**
Lint Code Base #2: Commit 9cf900e pushed by ristov663   `main`   📅 11 minutes ago   ⏱ 1m 57s   ⋯

✅ **Create super-linter.yml**
Lint Code Base #1: Commit 0648f77 pushed by ristov663   `main`   📅 16 minutes ago   ⏱ 1m 49s   ⋯

Security

🔍 Code security and analysis

🔑 Deploy keys

⊛ Secrets and variables   ⌃
    Actions
    Codespaces
    Dependabot

Integrations

GitHub Apps

✉ Email notifications

Autolink references

Repository secrets

New repository secret

Name ≡↑	Last updated		
🔒 DOCKERHUB_TOKEN	now	✏	🗑
🔒 DOCKERHUB_USERNAME	now	✏	🗑

Screenshot 1

ristov663 / kiii-github-actions

Type `/` to search

<> Code | Issues | Pull requests | Actions | Projects | Wiki | Security | Insights | Settings

kiii-github-actions / .github / workflows / docker-publish.yml in main

Cancel changes

Edit | Preview

Spaces | 2 | No wrap

```yaml
 1  name: Docker
 2
 3  # This workflow uses actions that are not certified by GitHub.
 4  # They are provided by a third-party and are governed by
 5  # separate terms of service, privacy policy, and support
 6  # documentation.
 7
 8  on:
 9    schedule:
10      - cron: '40 21 * * *'
11    push:
12      branches: [ "main" ]
13      # Publish semver tags as releases.
14      tags: [ 'v*.*.*' ]
15    pull_request:
16      branches: [ "main" ]
17
18  env:
19    # Use docker.io for Docker Hub if empty
20    REGISTRY: ghcr.io
21    # github.repository as <account>/<repo>
22    IMAGE_NAME: ${{ github.repository }}
```

Marketplace | Documentation

Search Marketplace for Actions

Featured Actions

Setup Node.js environment
By actions
Setup a Node.js environment by adding problem matchers and optionally down and adding it to the PATH

Upload a Build Artifact
By actions
Upload a build artifact that can be used subsequent workflow steps

Setup Java JDK
By actions
Set up a specific version of the Java JDK add the command-line tools to the PAT

Setup Go environment
By actions

Screenshot 2

ristov663 / kiii-github-actions

Type `/` to search

<> Code | Issues | Pull requests | Actions | Projects | Wiki | Security | Insights | Settings

kiii-github-actions / .github / workflows / super-linter-docker-build in main

Cancel changes | Commit changes...

Edit | Preview

Spaces | 2 | No wrap

```yaml
 7  name: Lint Code Base and Docker Build and Push
 8
 9  on:
10    push:
11      branches: [ "main" ]
12    pull_request:
13      branches: [ "main" ]
14  jobs:
15    run-lint:
16      runs-on: ubuntu-latest
17      steps:
18        - name: Checkout code
19          uses: actions/checkout@v3
20          with:
21            # Full git history is needed to get a proper list of changed files within `super-linter`
22            fetch-depth: 0
23
24        - name: Lint Code Base
25          uses: github/super-linter@v4
26          env:
27            VALIDATE_ALL_CODEBASE: false
28            DEFAULT_BRANCH: "main"
29            GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
```

Use Control + Shift + m to toggle the tab key moving focus. Alternatively, use esc then tab to move to the next interactive element on the page.

Marketplace | Documentation

Search Marketplace for Actions

Featured Actions

Cache ☆ 4.2k
By actions
Cache artifacts like dependencies and build outputs to improve workflow execution time

Setup Node.js environment ☆ 3.6k
By actions
Setup a Node.js environment by adding problem matchers and optionally downloading and adding it to the PATH
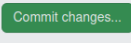
Upload a Build Artifact ☆ 2.9k
By actions
Upload a build artifact that can be used by subsequent workflow steps

Setup Java JDK ☆ 1.4k
By actions
Set up a specific version of the Java JDK and add the command-line tools to the PATH

Screenshot 3

Edit | Preview

Spaces | 2 | No wrap

```yaml
26          env:
27            VALIDATE_ALL_CODEBASE: false
28            DEFAULT_BRANCH: "main"
29            GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
30    docker:
31      runs-on: ubuntu-latest
32      needs: run-lint
33      steps:
34        -
35          name: Set up QEMU
36          uses: docker/setup-qemu-action@v3
37        -
38          name: Set up Docker Buildx
39          uses: docker/setup-buildx-action@v3
40        -
41          name: Login to Docker Hub
42          uses: docker/login-action@v3
43          with:
44            username: ${{ secrets.DOCKERHUB_USERNAME }}
45            password: ${{ secrets.DOCKERHUB_TOKEN }}
46        -
47          name: Build and push
48          uses: docker/build-push-action@v5
49          with:
50            push: true
51            tags: ristov663/kii-demo-01:latest
52
```

Marketplace | Documentation

Search Marketplace for Actions

Featured Actions

Cache ☆ 4.2k
By actions
Cache artifacts like dependencies and build outputs to improve workflow execution time

Setup Node.js environment ☆ 3.6k
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By actions
Upload a build artifact that can be used by subsequent workflow steps

Setup Java JDK ☆ 1.4k
By actions
Set up a specific version of the Java JDK and add the command-line tools to the PATH

ristov663 Update super-linter-docker-build-and-push.yml ✕

Code   Blame   51 lines (49 loc) · 1.42 KB

```yaml
1    # This workflow executes several linters on changed files based on languages used in your code base whenever
2    # you push a code or open a pull request.
3    #
4    # You can adjust the behavior by modifying this file.
5    # For more information, see:
6    # https://github.com/github/super-linter
7    name: Lint Code Base and Docker Build and Push
8
9    on:
10     push:
11       branches: [ "main" ]
12     pull_request:
13       branches: [ "main" ]
14   jobs:
15     run-lint:
16       runs-on: ubuntu-latest
17       steps:
18         - name: Checkout code
19           uses: actions/checkout@v3
20           with:
21             # Full git history is needed to get a proper list of changed files within `super-linter`
22             fetch-depth: 0
23
24         - name: Lint Code Base
25           uses: github/super-linter@v4
26           env:
27             VALIDATE_ALL_CODEBASE: false
28             DEFAULT_BRANCH: "main"
29             GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
30     docker:
31       runs-on: ubuntu-latest
32       needs: run-lint
33       steps:
34         -
35           name: Set up QEMU
36           uses: docker/setup-qemu-action@v3
37         -
38           name: Set up Docker Buildx
39           uses: docker/setup-buildx-action@v3
40         -
41           name: Login to Docker Hub
42           uses: docker/login-action@v3
43           with:
44             username: ${{ secrets.DOCKERHUB_USERNAME }}
45             password: ${{ secrets.DOCKERHUB_TOKEN }}
46         -
47           name: Build and push
48           uses: docker/build-push-action@v5
49           with:
50             push: true
51             tags: ristov211151/kiii-demo-01:latest
```

ristov663 / kiii-github-actions

Type / to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

kiii-github-actions / .github / workflows / super-linter-docker-bu...   Cancel changes

it Preview   Marketplace   Documentation

```
# This workflow executes several linters on changed files based o
# you push a code or open a pull request.
#
# You can adjust the behavior by modifying this file.
# For more information, see:
# https://github.com/github/super-linter
name: Lint Code Base and Docker Build and Push

on:
  push:
    branches: [ "main" ]
  pull_request:
    branches: [ "main" ]
jobs:
  run-lint:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout code
        uses: actions/checkout@v3
        with:
```

Commit changes   ✕

Commit message

Create super-linter-docker-build-and-push.yml

Extended description

Add an optional extended description..

● Commit directly to the main branch

○ Create a **new branch** for this commit and start a pull request. Learn
more about pull requests

Cancel   **Commit changes**

Search Marketplace for Actions

Featured Actions

Cache
By actions
Cache artifacts like dependencies and
outputs to improve workflow execution

Setup Node.js environment
By actions
Setup a Node.js environment by addi...
problem matchers and optionally dow
and adding it to the PATH

Upload a Build Artifact
By actions
Upload a build artifact that can be us
subsequent workflow steps

---

ristov663 / kiii-github-actions

Type / to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Actions   New workflow

All workflows

Workflows

Lint Code Base

Lint Code Base and Docker Build and Push

Management

Caches

Runners

All workflows
Showing runs from all workflows

Filter workflow runs

9 workflow runs   Event ▾ Status ▾ Branch ▾ Actor ▾

✔ Changes in commit   main   📅 13 minutes ago   ⋯
Lint Code Base #6: Commit ffe92a2 pushed by ristov663   ⏱ 1m 56s

✔ Changes in commit   main   📅 13 minutes ago   ⋯
Lint Code Base and Docker Build and Push #3: Commit ffe92a2 pushed by ristov663   ⏱ 2m 18s

✔ Update super-linter-docker-build-and-push.yml   main   📅 20 minutes ago   ⋯
Lint Code Base #5: Commit 9abd852 pushed by ristov663   ⏱ 1m 51s

✕ Update super-linter-docker-build-and-push.yml   main   📅 20 minutes ago   ⋯
Lint Code Base and Docker Build and Push #2: Commit 9abd852 pushed by ristov663   ⏱ 2m 5s

---

ristov663 / kiii-github-actions

Type / to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

← Lint Code Base and Docker Build and Push

✕ **Create super-linter-docker-build-and-push.yml** #1

⌂ Summary

Jobs

● run-lint

✕ docker

Run details

⏱ Usage

Workflow file

Triggered via push 36 minutes ago   Status   Total duration   Artifacts
👤 ristov663 pushed -o- 089bf0f main   **Failure** 2m 20s   —

super-linter-docker-build-and-push.yml
on: push

● run-lint   1m 50s ——●—— ✕ docker   13s

<> Code ⊙ Issues ⑪ Pull requests ▶ Actions ⊞ Projects 📖 Wiki ⊘ Security 📈 Insights ⚙ Settings

← Lint Code Base and Docker Build and Push
✓ Changes in commit #3

🏠 Summary

Jobs

✓ run-lint

✓ docker

Run details

⏱ Usage

⚙ Workflow file

Re-run triggered 5 minutes ago	Status	Total duration	Artifacts
👤 ristov663 ⦿ ffe92a2 `main`	Success	2m 18s	–

super-linter-docker-build-and-push.yml
on: push

✓ run-lint	1m 40s	✓ docker	20s

🐳 **docker hub**   Explore   **Repositories**   Organizations

🔍 Search Docker Hub   `ctrl+K`   ❓ ⊞ Ⓡ

ristov211151 / Repositories / kiii-demo-01 / Tags

Using 0 of 1 private repositories. Get more

General   **Tags**   Builds   Collaborators   Webhooks   Settings

☐   Sort by   [Newest ▾]   [🔍 Filter Tags]   [Delete]

TAG

● latest

Last pushed 11 hours ago by ristov211151

`docker pull ristov211151/kiii-demo-01:latest`   [Copy]

Digest	OS/ARCH	Last pull	Compressed Size ⓘ
0c01af324d7e	linux/amd64	9 hours ago	54.39 MB

ristov211151/kiii-demo-01 🌐

Updated about 11 hours ago

This repository does not have a description ✏️ ⓘ INCOMPLETE

This repository does not have a category ✏️ ⓘ INCOMPLETE

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
● latest	🐧	Image	9 hours ago	11 hours ago

Part 2: GitLab CI/CD

1. **Create a new repository on GitLab, and add the Dockerfile and the index.html files to it;**
2. **Create one CI script which will build and push a Docker image to Docker Hub;**

main ∨	kiii-gitlab-cicd /	+ ∨		History

Added index.html
Bojan Ristov authored just now

Name	Last commit
🐳 Dockerfile	Added Dockerfile
Ⓜ README.md	Initial commit
🔶 index.html	Added index.html

📄 **README.md**

Added Dockerfile
Bojan Ristov authored 1 minute ago

🐳 **Dockerfile** 📋 67 B | Blame | Edit ∨ |

```
1  FROM nginx:stable
2  COPY index.html /usr/share/nginx/html/index.html
```

Added index.html
Bojan Ristov authored 1 minute ago

🔶 **index.html** 📋 241 B | Blame | Edit ∨ |

```
1  <!DOCTYPE html>
2  <html>
3    <body>
4      <h1>GitHub Actions</h1>
5      <p>Example HTML webpage for the KIII course at FINKI.</p>
6      <p>The course cover the basic aspects of DevOps engineering.</p>
7      <p>New paragraph</p>
8    </body>
9  </html>
```

CI/CD Variables </> 4

Reveal values   Add variable

Key ↑	Value	Environments	Actions
CI_REGISTRY 🗐 Protected Expanded	***** 🗐	All (default) 🗐	✏️ 🗑️
CI_REGISTRY_IMAGE 🗐 Expanded	***** 🗐	All (default) 🗐	✏️ 🗑️
CI_REGISTRY_PASSWORD 🗐 Expanded	***** 🗐	All (default) 🗐	✏️ 🗑️
CI_REGISTRY_USER 🗐 Expanded	***** 🗐	All (default) 🗐	✏️ 🗑️

Added yml file
Bojan Ristov authored 2 minutes ago
✅ a38b0d60 🗐

.gitlab-ci.yml 🗐 960 B

Blame   Edit ⌄   Replace   Delete

```
1   # This file is a template, and might need editing before it works on your project.
2   # Build a Docker image with CI/CD and push to the GitLab registry.
3   # Docker-in-Docker documentation: https://docs.gitlab.com/ee/ci/docker/using_docker_build.html
4   #
5   # This template uses one generic job with conditional builds
6   # for the default branch and all other (MR) branches.
7   docker-build:
8     # Use the official docker image.
9     image: docker:latest
10    stage: build
11    services:
12      - docker:dind
13    before_script:
14      - docker login -u "$CI_REGISTRY_USER" -p "$CI_REGISTRY_PASSWORD" $CI_REGISTRY
15    # Default branch leaves tag empty (= latest tag)
16    # All other branches are tagged with the escaped branch name (commit ref slug)
17    script:
18      - docker build --pull -t "$CI_REGISTRY_IMAGE" .
19      - docker push "$CI_REGISTRY_IMAGE"
20    # Run this job in a branch where a Dockerfile exists
21    rules:
22      - if: $CI_COMMIT_BRANCH
23        exists:
24          - Dockerfile
```

All 1   Finished

Filter jobs

Status	Job	Pipeline	Coverage
✅ Passed 🕐 00:00:44 📅 just now	#6645403519: docker-build ⑂ main -○- a38b0d60	#1256456539 created by ⊞ Stage: build	

docker-build

✅ Passed   Started 1 minute ago by 🔵 Bojan Ristov

Search job log 🔍 ❓ 📄 ⇒ ↑ ↓ ⤢

```
 1   Running with gitlab-runner 16.11.0~pre.21.gaa21be2d (aa21be2d)
 2     on blue-3.saas-linux-small-amd64.runners-manager.gitlab.com/default zxwgkjAP, system ID: s_d5d3abbd
       fd0a
 3     feature flags: FF_USE_IMPROVED_URL_MASKING:true
 4   Preparing the "docker+machine" executor                                          00:31
 5   Using Docker executor with image docker:latest ...
 6   Starting service docker:dind ...
 7   Pulling docker image docker:dind ...
 8   Using docker image sha256:1eeb10c9d6c50079f0303574f312ad616070f07af8f874410e7967270751d1f5 for docke
     r:dind with digest docker@sha256:a2d55c6061a342e42db62654b7b7cdf16113828a80b3827cbd9453806c08549c ...
 9   Waiting for services to be up and running (timeout 30 seconds)...
10   Pulling docker image docker:latest ...
11   Using docker image sha256:1eeb10c9d6c50079f0303574f312ad616070f07af8f874410e7967270751d1f5 for docke
     r:latest with digest docker@sha256:a2d55c6061a342e42db62654b7b7cdf16113828a80b3827cbd9453806c08549c
     ...
12   Preparing environment                                                            00:00
13   Running on runner-zxwgkjap-project-56940627-concurrent-0 via runner-zxwgkjap-s-l-s-amd64-1713339522-f
     38afb19
```

Duration: 44 seconds
Finished: just now
Queued: 0 seconds
Timeout: 1h (from project) ❓
Runner: #12270835 (zxwgkjAPH) 3-blue.saas-linux-small-amd64.runners-manager.gitlab.com/default

Commit a38b0d60 📋
Added yml file

Pipeline #1256456539 ✅ Passed for main 📋

build ⌄

Related jobs
→ ✅ docker-build

🐳 **docker** hub   Explore   Repositories   Organizations   🔍 Search Docker Hub   ctrl+K

ristov211151 / Repositories / kiii-demo-02 / latest

ristov211151/kiii-demo-02:latest

MANIFEST DIGEST sha256:fb49ca84a34c1d4a29e43fa52aca9da68cb72249cbce4cb1fc3390645d01d455 📋

OS/ARCH	COMPRESSED SIZE ⓘ	LAST PUSHED	TYPE	MANIFEST DIGEST
linux/amd64	54.39 MB	2 minutes ago by ristov211151	Image	sha256:fb49ca84... 📋

Image Layers   Vulnerabilities

Изработил:

Бојан Ристов (211151)