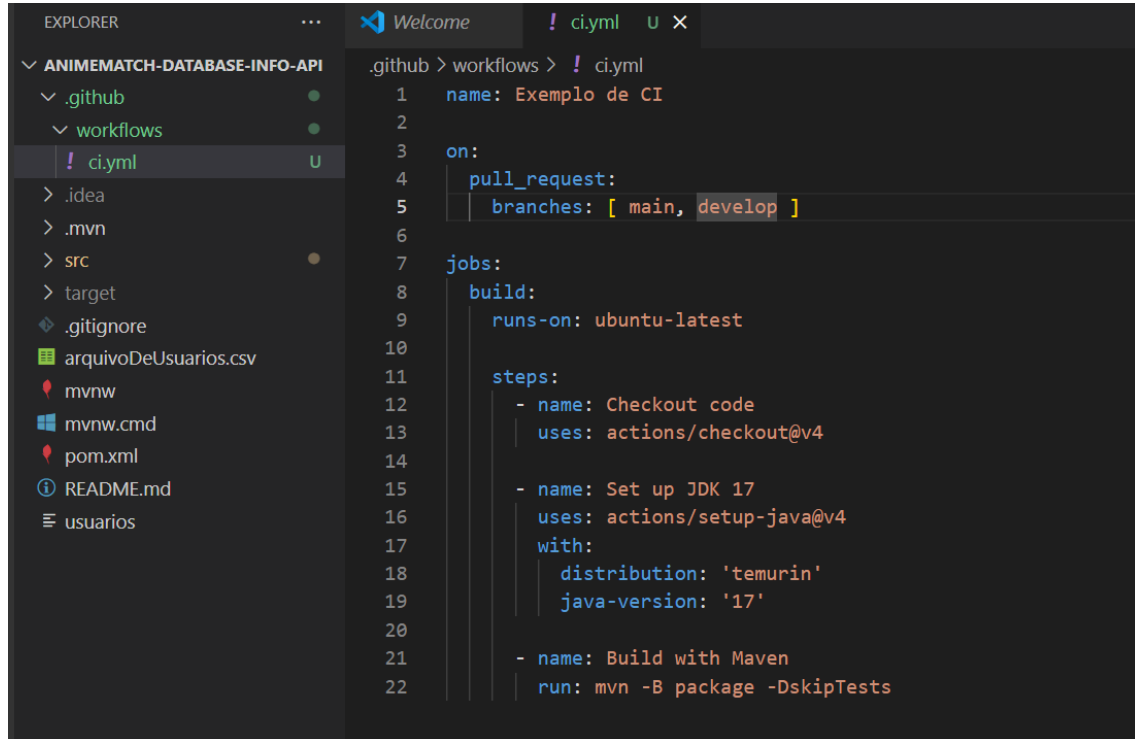


Grupo 8

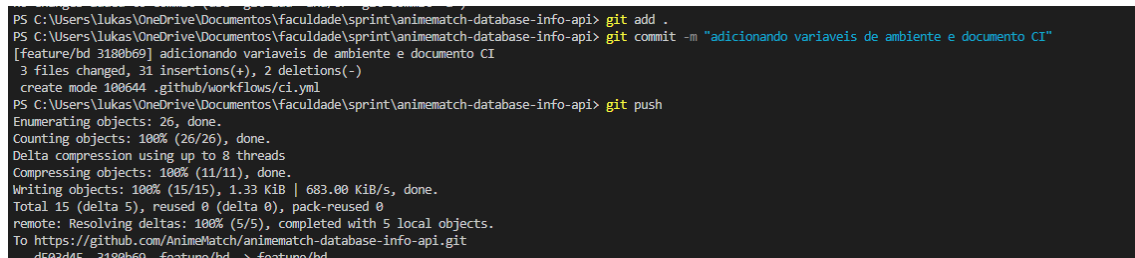
4º ads-B

Criando o arquivo ci.yml na pasta do projeto da sprint:

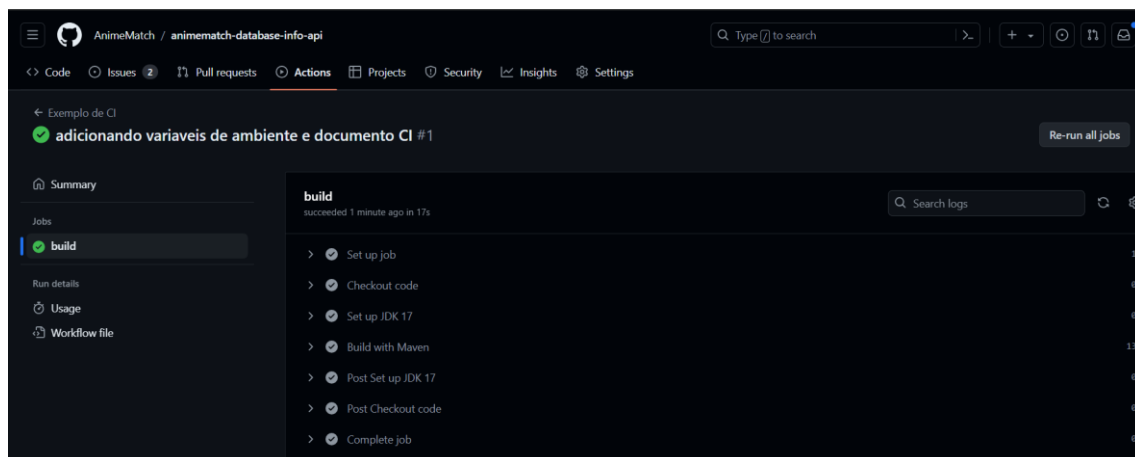


```
.github > workflows > ! ci.yml
1  name: Exemplo de CI
2
3  on:
4    pull_request:
5      branches: [ main, develop ]
6
7  jobs:
8    build:
9      runs-on: ubuntu-latest
10
11     steps:
12       - name: Checkout code
13         uses: actions/checkout@v4
14
15       - name: Set up JDK 17
16         uses: actions/setup-java@v4
17         with:
18           distribution: 'temurin'
19           java-version: '17'
20
21       - name: Build with Maven
22         run: mvn -B package -DskipTests
```

Actions após o envio via push:



```
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git add .
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git commit -m "adicionando variaveis de ambiente e documento CI"
[feature/bd 3180b69] adicionando variaveis de ambiente e documento CI
3 files changed, 31 insertions(+), 2 deletions(-)
create mode 100644 .github/workflows/ci.yml
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git push
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 8 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (15/15), 1.33 KiB | 683.00 KiB/s, done.
Total 15 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 5 local objects.
To https://github.com/AnimeMatch/animematch-database-info-api.git
d503d45..3180b69 feature/bd -> feature/bd
```



Exemplo de CI

adicionando variaveis de ambiente e documento CI #1

Summary

Jobs

- build

Run details

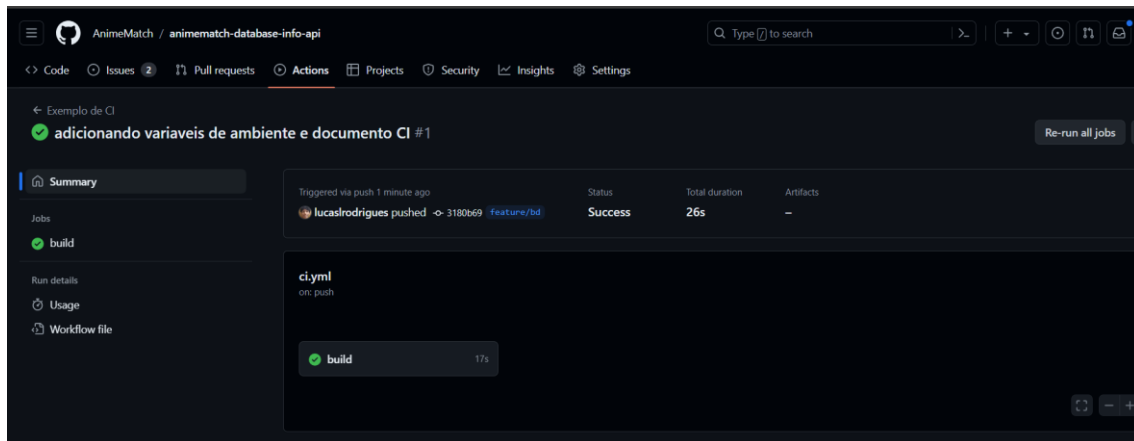
Usage

Workflow file

build

succeeded 1 minute ago in 17s

- Set up job
- Checkout code
- Set up JDK 17
- Build with Maven
- Post Set up JDK 17
- Post Checkout code
- Complete job



Adicionando job de teste ao arquivo de CI:

```

! ci.yml M X J MidiaService.java (Working Tree) application.properties (Working Tree)
.github/workflows > ! ci.yml
3   on:
4     push:
5       branches: [ feature/bd ]
6
7   jobs:
8     build:
9       runs-on: ubuntu-latest
10
11      steps:
12        - name: Checkout code
13          uses: actions/checkout@v4
14
15        - name: Set up JDK 17
16          uses: actions/setup-java@v4
17          with:
18            distribution: 'temurin'
19            java-version: '17'
20
21        - name: Build with Maven
22          run: mvn -B package -DskipTests
23
24      test:
25        runs-on: ubuntu-latest
26        needs: build
27        steps:
28          - name: Checkout code
29            uses: actions/checkout@v4
30
31          - name: Set up JDK 17
32            uses: actions/setup-java@v4
33            with:
34              distribution: 'temurin'
35              java-version: '17'
36
37          - name: Build and test with Maven
38            run: mvn test
39

```


```

PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git add .
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git commit -m "adicionando testes ao CI"
[feature/bd 9e1b892] adicionando testes ao CI
1 file changed, 23 insertions(+), 1 deletion(-)
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git push
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 701 bytes | 701.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/AnimeMatch/animematch-database-info-api.git
3180b69..9e1b892 feature/bd -> feature/bd

```

Testes rodando no git actions:

☰

 AnimeMatch / animematch-database-info-api

<> Code

🔍 Issues 2

🔗 Pull requests

🏠 Actions


📁 Projects

🔒 Security

📊 Insights

⚙️ Settings

← Exemplo de CI

 **adicionando credenciais do banco #3**

🏠 Summary

Jobs

- ✅ build
- 🟡 test

Run details

🕒 Usage


📄 Workflow file

Triggered via push 1 minute ago

Status

Total duration

Artifacts

 lucasrodrigues pushed → 9933165 `feature/bd` **In progress**

—

—

ci.yml
on: push

✅ build 27s

🟡 test 17s

☰

AnimeMatch / animematch-database-info-api

🔍 Type / to search

+ - 🔍 📧

<> Code 🔍 Issues 2 🔄 Pull requests **🔴 Actions** 📁 Projects 🔒 Security 📊 Insights ⚙️ Settings

← Exemplo de CI

✅ adicionando credenciais do banco #3

Re-run all jobs ⋮

🏠 Summary

Jobs

✅ build

✅ test

Run details

📄 Usage

📄 Workflow file

test

succeeded now in 24s

🔍 Search logs ⚙️

> ✅ Set up job1s

> ✅ Checkout code1s


> ✅ Set up JDK 170s

> ✅ Build and test with Maven20s

> ✅ Post Set up JDK 170s

> ✅ Post Checkout code0s

> ✅ Complete job0s

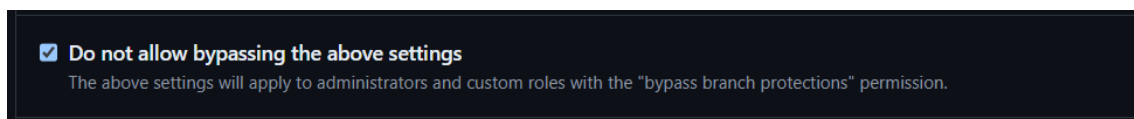
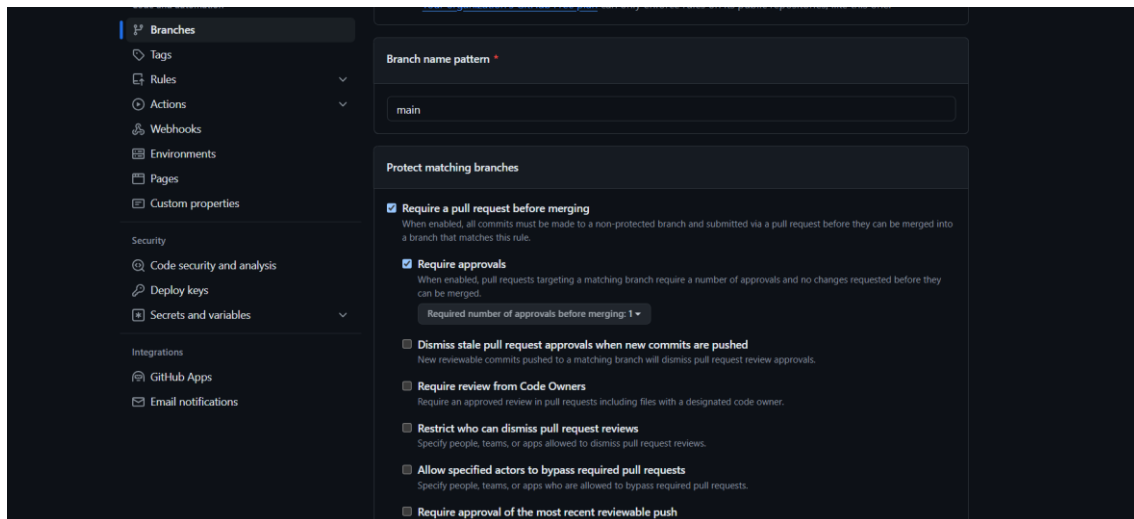
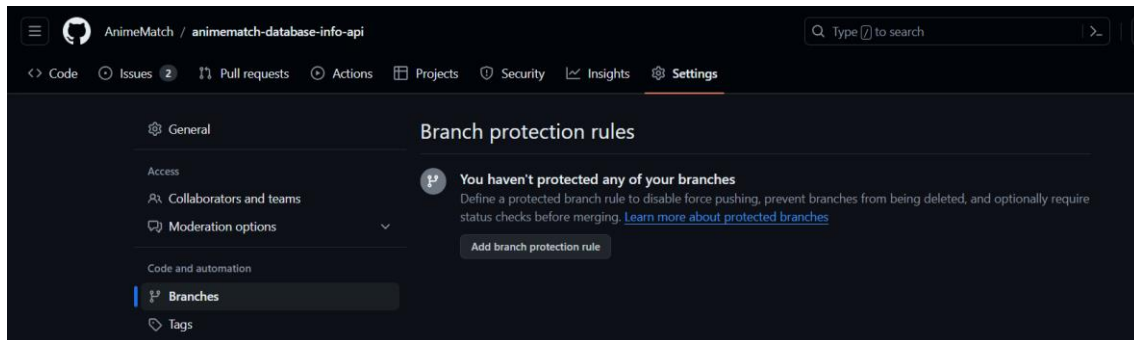
 **lucaslrodrigues** adicionando credenciais do banco ✓

Adicionando regra de pull request ao arquivo CI:

```
on:
  pull_request:
    branches: [ main, develop, feature/bd ]
    types: [opened, reopened]
```

Bloqueando o acesso direto a main

Adicionando regra de acesso:



Tentando realizar um commit para testar a segurança:

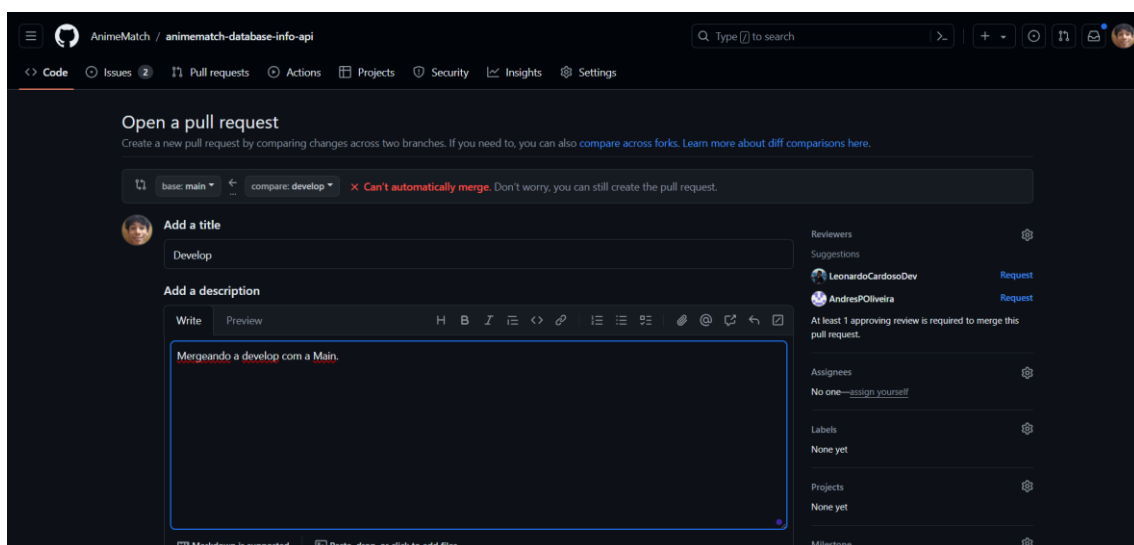
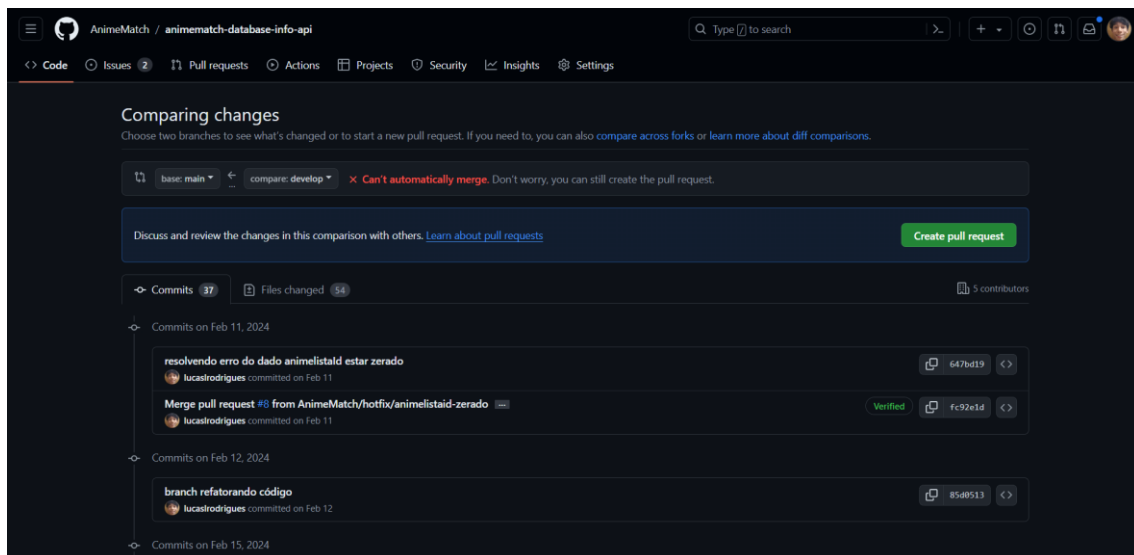
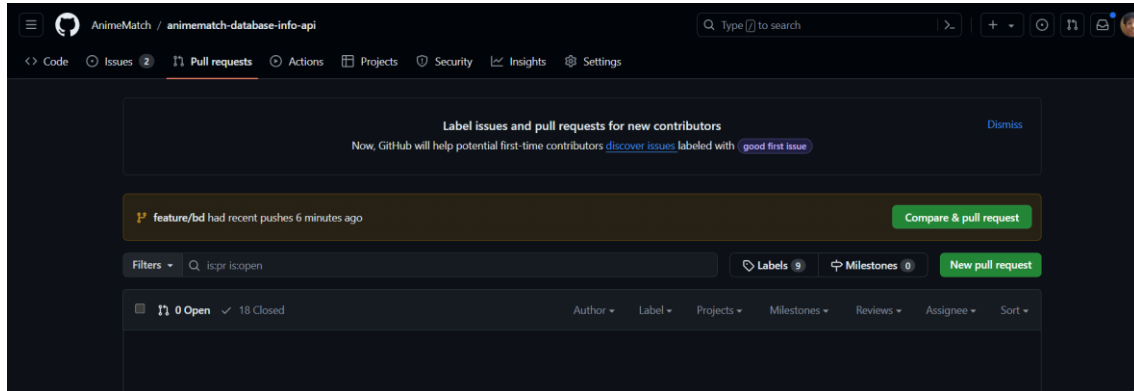
```
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   usuarios

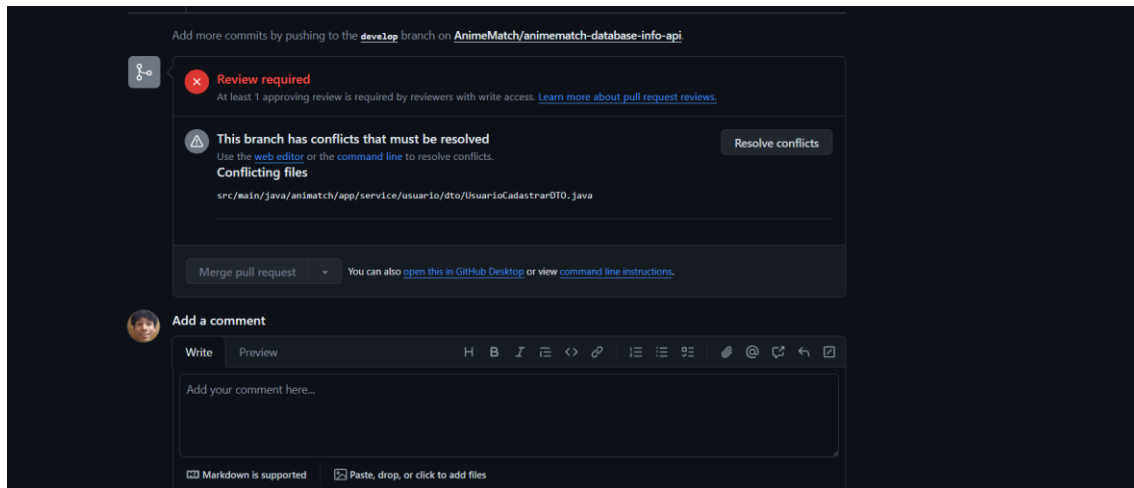
no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git add .
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git commit -m "tentando segurança"
[main 1d17cfc] tentando segurança
 1 file changed, 1 insertion(+)
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 294 bytes | 294.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote: error: GH006: Protected branch update failed for refs/heads/main.
remote: error: Changes must be made through a pull request.
To https://github.com/AnimeMatch/animematch-database-info-api.git
 ! [remote rejected] main -> main (protected branch hook declined)
error: failed to push some refs to 'https://github.com/AnimeMatch/animematch-database-info-api.git'
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> |
```

Pull request da develop para a main

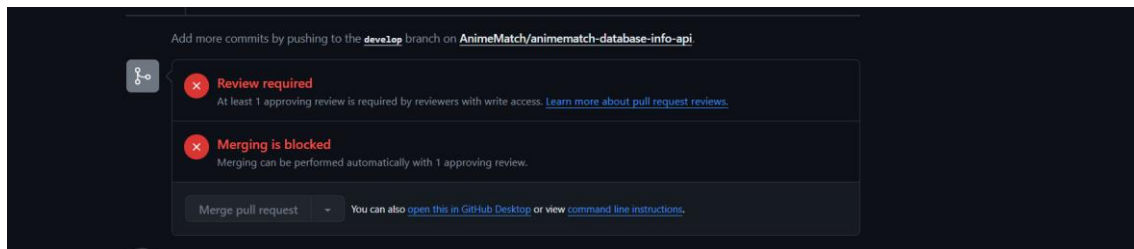
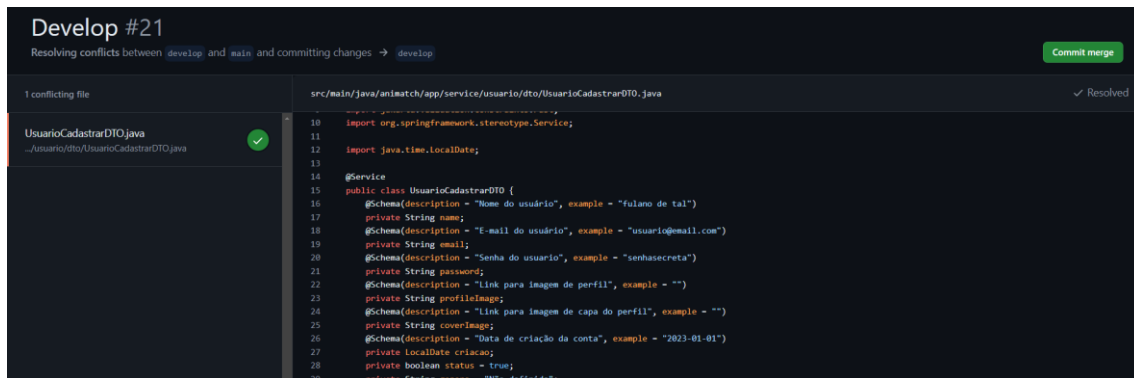
```
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git switch develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api>
```

Criando pull request pela plataforma (selecionando “new pull request”):

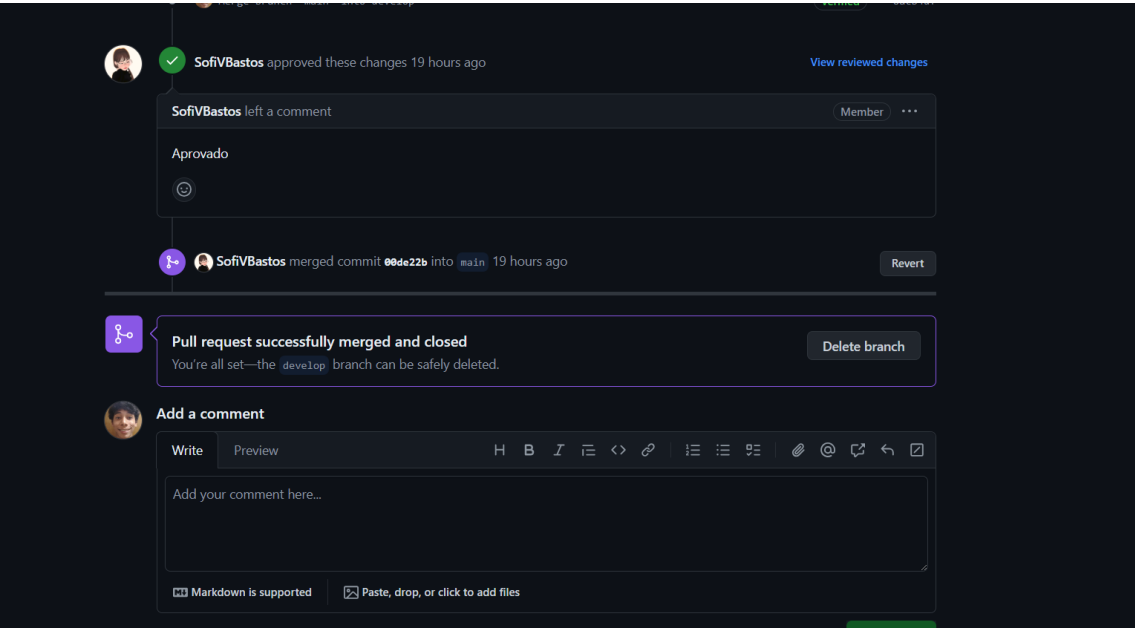




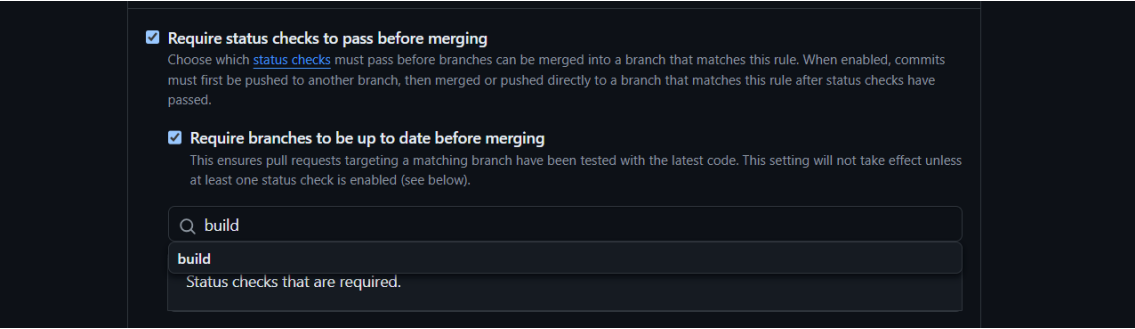
Resolvendo conflitos



Pull request aprovado por uma integrante do grupo:



Adicionando mais um passo de segurança:



Adicionando job para o docker:

```
docker:
  runs-on: ubuntu-latest
  needs:
    - build
    - test
  steps:
    - name: Set up QEMU
      uses: docker/setup-qemu-action@v3

    - name: Set up Docker Buildx
      uses: docker/setup-buildx-action@v3

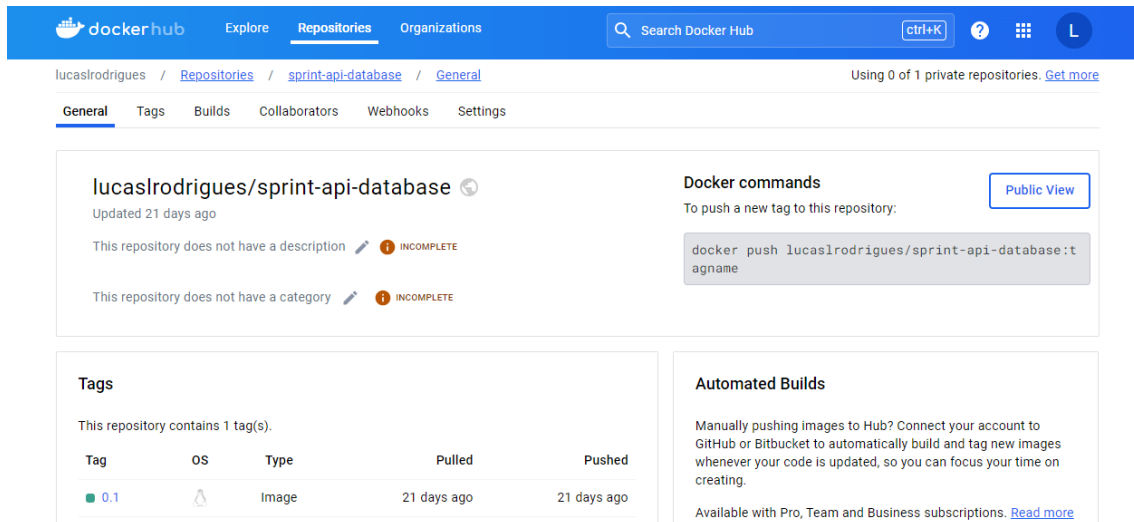
    - name: Login to Docker Hub
      uses: docker/login-action@v3
      with:
        username: ${ secrets.DOCKERHUB_USER }}
        password: ${ secrets.DOCKERHUB_TOKEN }}

    - name: Build and push
      uses: docker/build-push-action@v5
      with:
        push: true
        tags: lucaslrodrigues/sprint-api-database:0.1
```

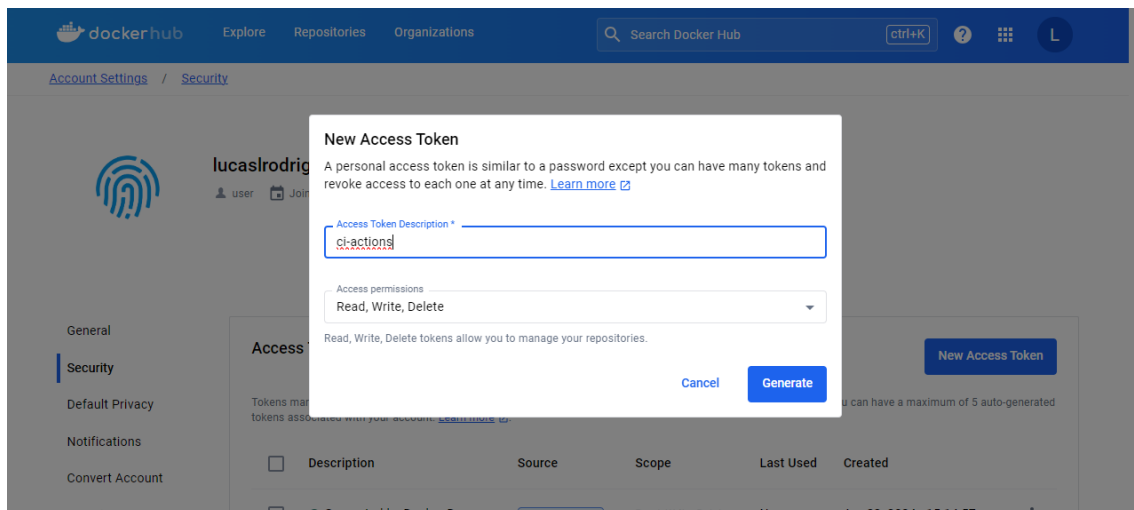
Adicionando Dockerfile a raiz do projeto:

```
Dockerfile > ...
1 FROM maven:3-openjdk-17 as builder
2
3 LABEL authors="lucas"
4
5 WORKDIR /build
6
7 COPY . .
8
9 RUN mvn clean package -DskipTests -Dcheckstyle.skip=true
10
11 FROM openjdk:17-slim
12
13 WORKDIR /app
14
15 COPY --from=builder /build/target/*.jar /app/app.jar
16
17 CMD ["java", "-jar", "app.jar"]
```

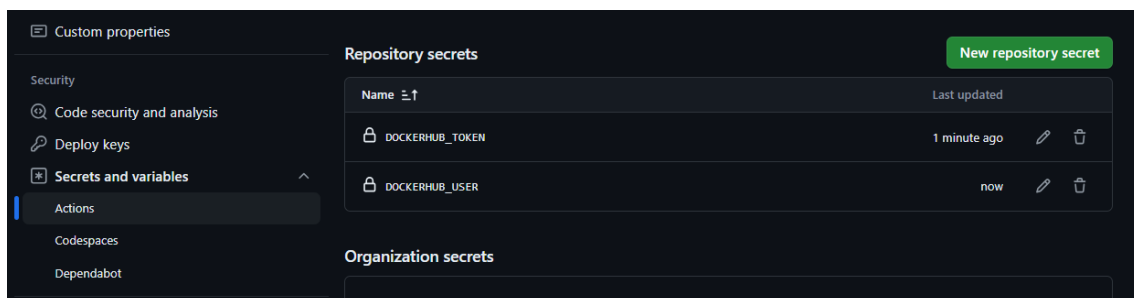
Utilizando imagem da API utilizada na Sprint:



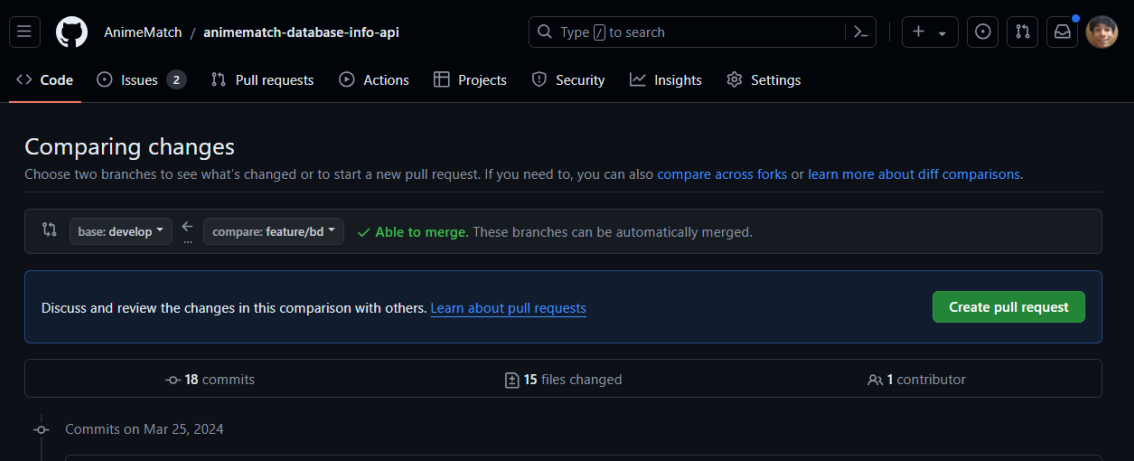
Criando um token para acessar a imagem.



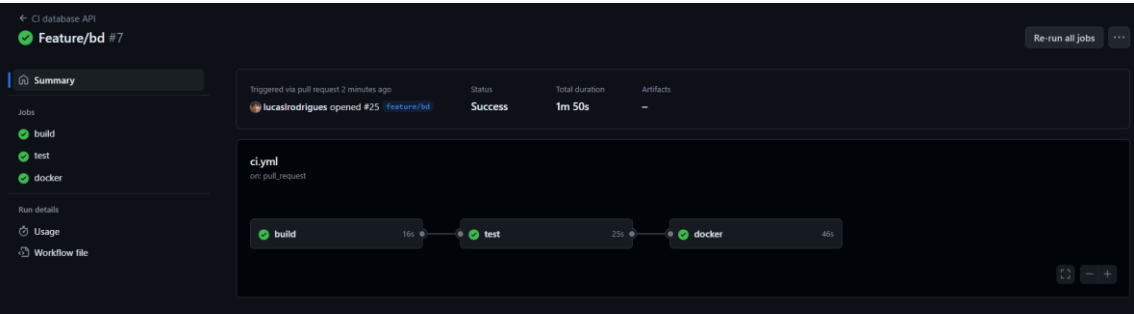
Adicionando variáveis de ambiente ao repositório do GitHub:



Criando um pull request para testar o progresso:

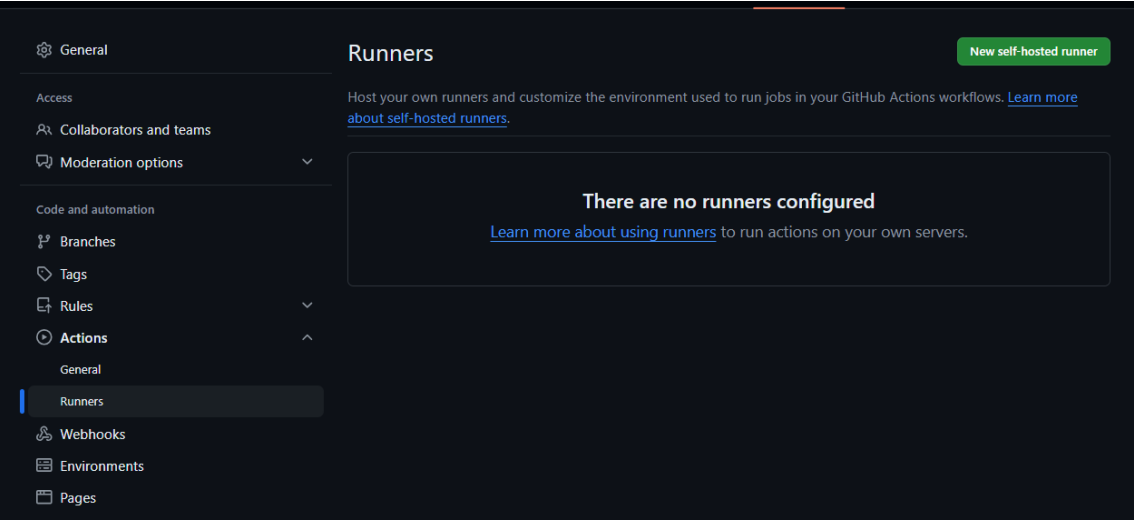


Clorando:



CD: Deploy na ec2

Criando um runner:



General

Access

Collaborators and teams

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Runners

Webhooks

Environments

Pages

Custom properties

Security

Code security and analysis

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

Runners / Add new self-hosted runner · AnimeMatch/animematch-database-info-api

Adding a self-hosted runner requires that you download, configure, and execute the GitHub Actions Runner. By downloading and configuring the GitHub Actions Runner, you agree to the [GitHub Terms of Service](#) or [GitHub Corporate Terms of Service](#), as applicable.

Runner image

macOS

Linux

Windows

Architecture

x64

Download

```
# Create a folder
$ mkdir actions-runner && cd actions-runner
# Download the latest runner package
$ curl -O actions-runner-linux-x64-2.316.1.tar.gz -L https://github.com/actions/runner/releases/download/v2.316.1/actions-runner-linux-x64-2.316.1.tar.gz
# Optional: Validate the hash
$ echo "d62de240eeecad195db91e2ff01bfb646cd5d8545e81d8f78c436183e09a8" actions-runner-linux-x64-2.316.1.tar.gz | shasum -a 256 -c
# Extract the installer
$ tar xzf ./actions-runner-linux-x64-2.316.1.tar.gz
```

Configure

```
# Create the runner and start the configuration experience
$ ./config.sh --url https://github.com/AnimeMatch/animematch-database-info-api --token A2P58TVIF66I7CM47FLM3GKPT1
```

Executando em uma EC2 privada da sprint:

back_end_02

i-09eaddb58c792aec9

Executando

t2.medium

Inicializando

Instalando docker:

```
ubuntu@ip-10-0-0-107:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-10-0-0-107:~$ sudo apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```

ubuntu@ip-10-0-0-107:~$ sudo usermod -a -G docker $(whoami)
ubuntu@ip-10-0-0-107:~$ newgrp docker
ubuntu@ip-10-0-0-107:~$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:266b191e926f65542fa8daaec01a192c4d292bff79426f47300a046e1bc576fd
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
ubuntu@ip-10-0-0-107:~$ |

```

Executando comandos de configuração do runner:

Download

```

# Create a folder
$ mkdir actions-runner && cd actions-runner

# Download the latest runner package
$ curl -o actions-runner-linux-x64-2.316.1.tar.gz -L
https://github.com/actions/runner/releases/download/v2.316.1/actions-runner-linux-x64-2.316.1.tar.gz

# Optional: Validate the hash
$ echo "d62de2400eeecad195db91e2ff011bfb646cd5d85545e81d8f78c436183e09a8" actions-runner-linux-x64-
2.316.1.tar.gz | shasum -a 256 -c

# Extract the installer
$ tar xzf ./actions-runner-linux-x64-2.316.1.tar.gz

```

Configure

```

# Create the runner and start the configuration experience
$ ./config.sh --url https://github.com/AnimeMatch/animematch-database-info-api --token
A2P5BTVIF66IJ7CW47FLM3GKPXTI

# Last step, run it!
$ ./run.sh

```

Using your self-hosted runner

```

# Use this YAML in your workflow file for each job
runs-on: self-hosted

```

For additional details about configuring, running, or shutting down the runner, please check out our [product docs](#).

```
ubuntu@ip-10-0-0-107:~$ mkdir actions-runner && cd actions-runner
ubuntu@ip-10-0-0-107:~/actions-runner$ curl -o actions-runner-linux-x64-2.316.1.tar.gz -L https://github.com/actions/runner/releases/download/v2.316.1/actions-runner-linux-x64-2.316.1.tar.gz
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
100 179M 100 179M 0 0 115M 0 0:00:01 0:00:01 --:-- 116M
ubuntu@ip-10-0-0-107:~/actions-runner$ echo "d62de2408eeead195db91e2ff011bf646cd5d8554Se81d8f78c436183e09a8 actions-runner-linux-x64-2.316.1.tar.gz" | shasum -a 256 -c
actions-runner-linux-x64-2.316.1.tar.gz: OK
ubuntu@ip-10-0-0-107:~/actions-runner$ tar xzf ./actions-runner-linux-x64-2.316.1.tar.gz
ubuntu@ip-10-0-0-107:~/actions-runner$
```

```
ubuntu@ip-10-0-0-107:~/actions-runner$ ./config.sh --url https://github.com/AnimeMatch/animematch-database-info-api --token A2P8BTWMECRKZK5FHRSG3WDGKQHSC

Self-hosted runner registration

# Authentication

✓ Connected to GitHub

# Runner Registration

Enter the name of the runner group to add this runner to: [press Enter for Default]

Enter the name of runner: [press Enter for ip-10-0-0-107]

This runner will have the following labels: 'self-hosted', 'Linux', 'X64'
Enter any additional labels (ex. label-1,label-2): [press Enter to skip]

✓ Runner successfully added
✓ Runner connection is good

# Runner settings

Enter name of work folder: [press Enter for _work]

✓ Settings Saved.

ubuntu@ip-10-0-0-107:~/actions-runner$
```

```
ubuntu@ip-10-0-0-107:~/actions-runner$ nohup ./run.sh > output.log 2>&1 &
[1] 8098
ubuntu@ip-10-0-0-107:~/actions-runner$ PS
PS: command not found
ubuntu@ip-10-0-0-107:~/actions-runner$ PS
PS: command not found
ubuntu@ip-10-0-0-107:~/actions-runner$ ps
  PID TTY          TIME CMD
  1165 pts/0    00:00:00 bash
  7850 pts/0    00:00:00 bash
  8098 pts/0    00:00:00 run.sh
  8102 pts/0    00:00:00 run-helper.sh
  8106 pts/0    00:00:02 Runner.Listener
  8136 pts/0    00:00:00 ps
ubuntu@ip-10-0-0-107:~/actions-runner$
```

Runner adicionado com sucesso:

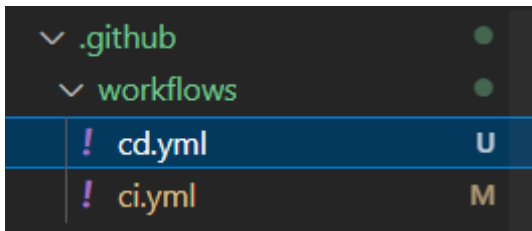
Runners

New self-hosted runner

Host your own runners and customize the environment used to run jobs in your GitHub Actions workflows. [Learn more about self-hosted runners.](#)

Runners	Status
<div>ip-10-0-0-107</div> <div>self-hosted</div> <div>Linux</div> <div>X64</div>	<div>● Idle</div> <div>...</div>
<div>ip-10-0-0-169</div> <div>self-hosted</div> <div>Linux</div> <div>X64</div>	<div>● Offline</div> <div>...</div>

Criando arquivo cd.yml:



```
.github > workflows > ! cd.yml
1  name: Deploy Anime Match
2  on:
3  push:
4    branches:
5    - main
6
7  jobs:
8    deploy:
9      runs-on: self-hosted
10     steps:
11       - name: Pull Docker image
12         run: docker pull lucaslrodrigues/sprint-api-database:latest
13
14       - name: Stop Docker container
15         run: docker stop api_database || true
16
17       - name: Remove Docker container
18         run: docker rm api_database || true
19
20       - name: Run Docker container
21         run: docker run --name api_database -d -p 8080:8080 lucaslrodrigues/sprint-api-database:latest
22
```

Criando nova branch para adicionar a develop:

```
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git branch
develop
feature/bd
* feature/deploy
feature/topico-refactor
main
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git add .
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git commit -m "adicionando configurações de deploy ao actions"
[feature/deploy a8f2159] adicionando configurações de deploy ao actions
2 files changed, 23 insertions(+), 7 deletions(-)
create mode 100644 .github/workflows/cd.yml
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git push
fatal: The current branch feature/deploy has no upstream branch.
To push the current branch and set the remote as upstream, use

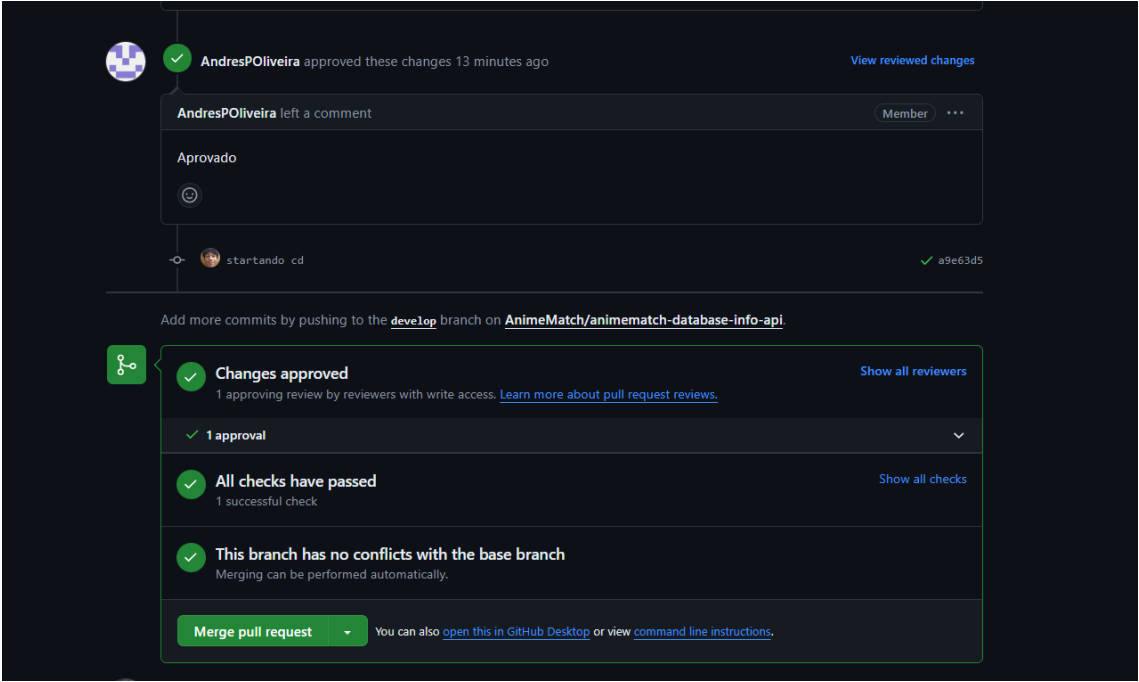
    git push --set-upstream origin feature/deploy

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

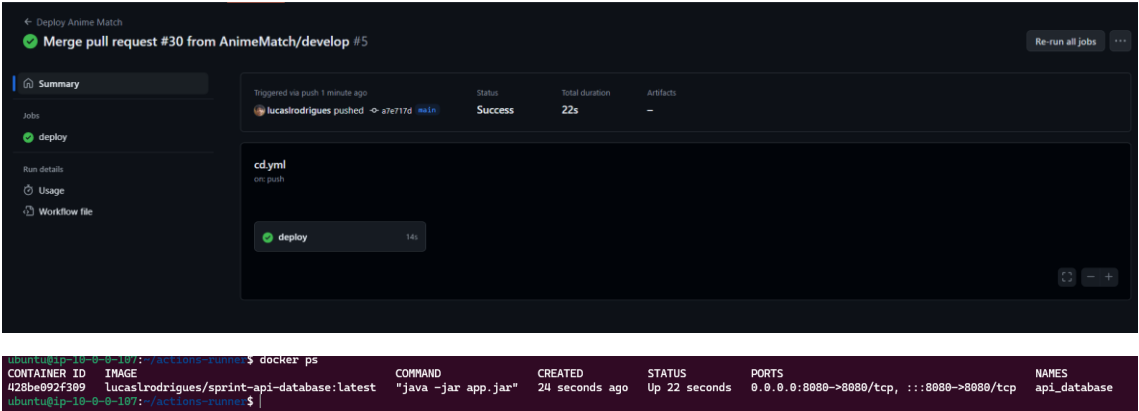
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api> git push --set-upstream origin feature/deploy
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 676 bytes | 676.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'feature/deploy' on GitHub by visiting:
remote:   https://github.com/AnimeMatch/animematch-database-info-api/pull/new/feature/deploy
remote:
To https://github.com/AnimeMatch/animematch-database-info-api.git
 * [new branch]      feature/deploy -> feature/deploy
branch 'feature/deploy' set up to track 'origin/feature/deploy'.
PS C:\Users\lukas\OneDrive\Documentos\faculdade\sprint\animematch-database-info-api>
```



Criando merge para a main:



Deploy realizado com sucesso:





Não seguro 44.205.22.255:8080/actuator/health

```
1 // 20240527005824
2 // http://44.205.22.255:8080/actuator/health
3
4 {
5   "status": "UP"
6 }
```