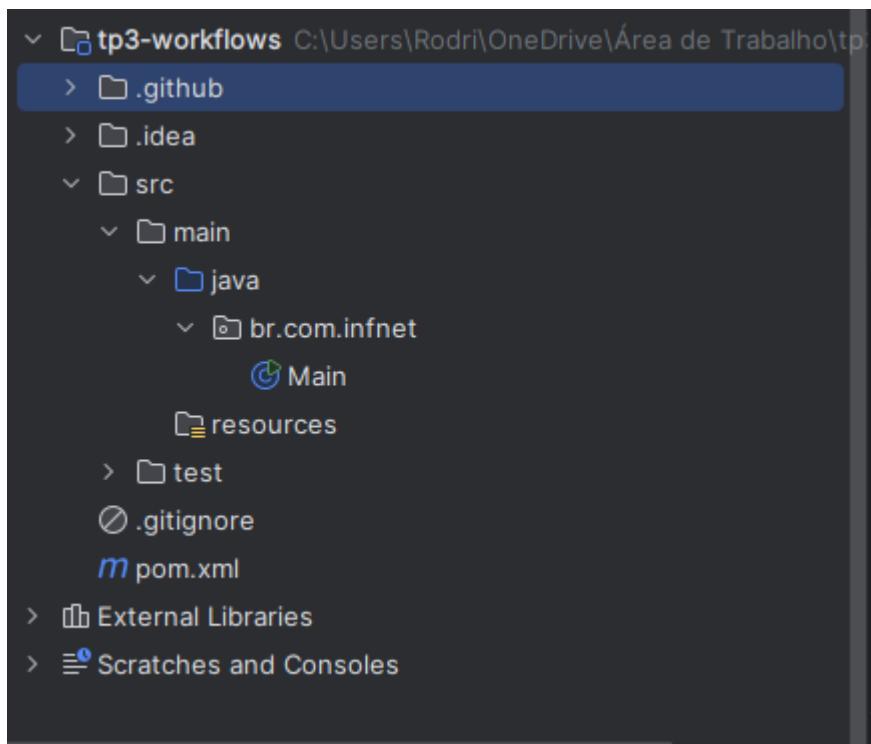


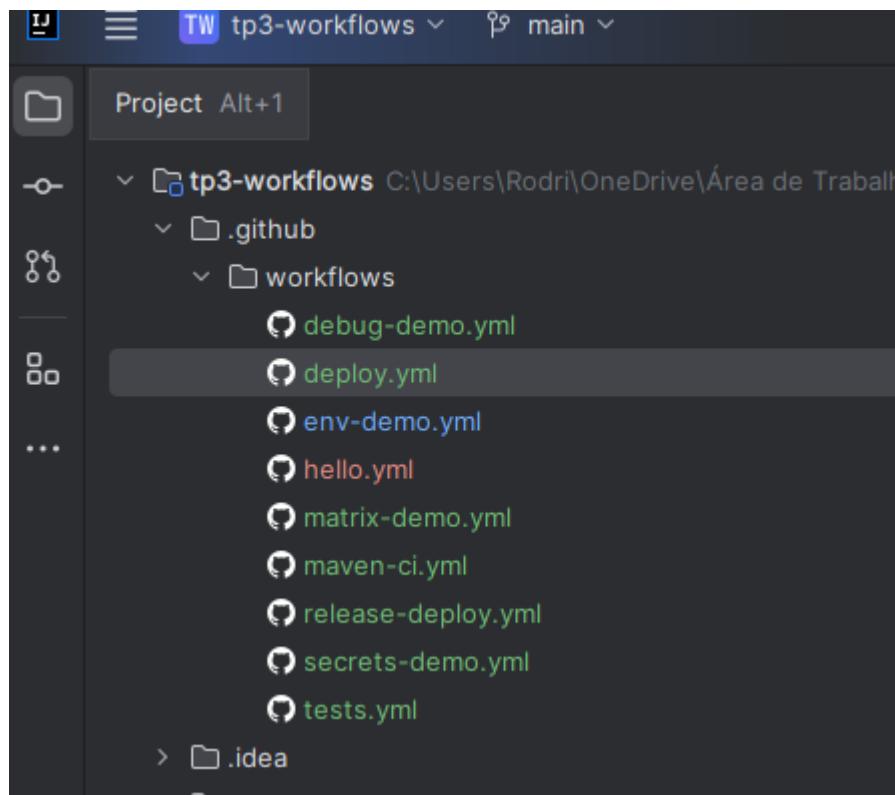
## TP3 - Evidências

Link do repositório no github:  
<https://github.com/Rodrigoportes/tp3-workflows>

Projeto:



TODOS OS WORCKFLOWS



Crie no seu repositório um workflow hello.yml

```
Rodri@DESKTOP-2RJVDOE MINGW64 ~/OneDrive/Área de Trabalho/tp3-workflows (main)
$ git push
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (7/7), 820 bytes | 820.00 KiB/s, done.
Total 7 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Rodrigoportes/tp3-workflows.git
  70556a3..b5a2a7f  main -> main
```

The screenshot shows a code editor interface with the following details:

- Project View:** Shows the directory structure of the project "tp3-workflows". It includes a .github folder with a workflows subfolder containing "hello.yml", a src folder with a main subfolder containing "Main.java" and "resources", a test folder, and a pom.xml file.
- Current File:** The file "hello.yml" is open in the editor. The code content is as follows:

```
name: 1.1 Hello CI/CD Workflow
on:
  push:
    jobs:
      say-hello:
        runs-on: ubuntu-latest
        steps:
          - name: Display Message
            run: echo "Hello CI/CD"
```

The screenshot shows the "All workflows" page on GitHub:

- Section Headers:** "All workflows" and "Showing runs from all workflows".
- Feedback Card:** A card asking for feedback on GitHub Actions, with a "Give feedback" button.
- Workflow Run Table:** A table showing one workflow run.

1 workflow run	Event	Status	Branch	Actor
feat: Adiciona workflow 1.1 hello.yml 1.1 Hello CI/CD Workflow #1: Commit <a href="#">adabf73</a> pushed by <a href="#">Rodrigoportes</a>	main	<span>1 minute ago</span>	<span>7s</span>	...

The screenshot shows a GitHub Actions workflow run summary. At the top, it says "1 workflow run". Below that, a green checkmark icon indicates a successful run for the workflow "feat: Adiciona workflow 1.1 hello.yml". The run was triggered by commit "adabf73" pushed by user "Rodrigoportes" on the "main" branch. The main content area displays the workflow run details for "say-hello". It shows the run succeeded 2 minutes ago in 3s, with three steps: "Set up job", "Display Hello CI/CD", and "Complete job", all of which are marked as completed with green checkmarks.

1 workflow run

feat: Adiciona workflow 1.1 hello.yml  
1.1 Hello CI/CD Workflow #1: Commit adabf73 pushed by Rodrigoportes main

< 1.1 Hello CI/CD Workflow

feat: Adiciona workflow 1.1 hello.yml #1

Summary

Jobs

say-hello

Run details

Usage

Workflow file

say-hello  
succeeded 2 minutes ago in 3s

> ✓ Set up job

> ✓ Display Hello CI/CD

> ✓ Complete job

Crie um workflow tests.yml que:

Seja disparado em pull\_request.

Screenshot of a web browser showing the GitHub pull request creation interface. The URL is [github.com/Rodrigoportes/tp3-workflows/compare/feature/pr-test?expand=1](https://github.com/Rodrigoportes/tp3-workflows/compare/feature/pr-test?expand=1).

The page title is "Open a pull request". It displays a message: "Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. [Learn more about diff comparisons here.](#)"

Branch selection: "base: main" and "compare: feature/pr-test". Status: "Able to merge. These branches can be automatically merged."

**Add a title:** "feat: Adiciona workflow 1.2 tests.yml"

**Add a description:**

- Write tab is selected.
- Preview tab is available.
- Rich text editor toolbar is visible.
- Description content: "Pull request|"
- Helpful hints: "Markdown is supported" and "Paste, drop, or click to add files".

**Reviewers:** No reviews.

**Assignees:** No one → assign yourself.

**Labels:** None yet.

**Projects:** None yet.

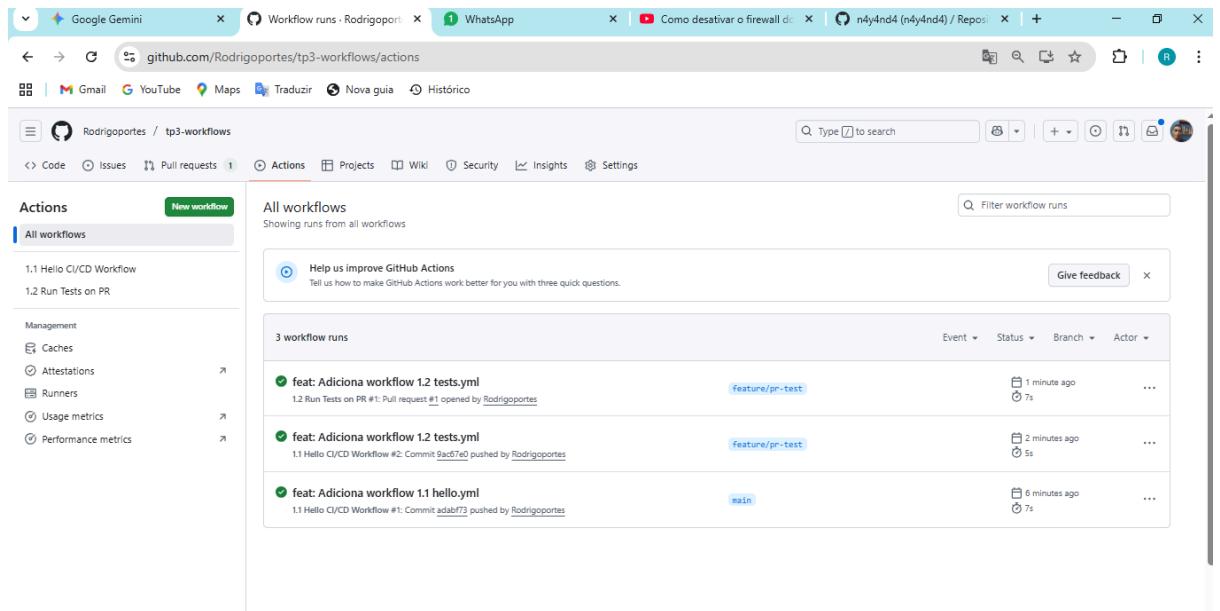
**Milestone:** No milestone.

**Development:** Use [Closing keywords](#) in the description to automatically close issues.

**Helpful resources:** [GitHub Community Guidelines](#).

**Buttons:** "Create pull request" (green button) and "Remember, contributions to this repository should follow our [GitHub Community Guidelines](#). (info icon)"

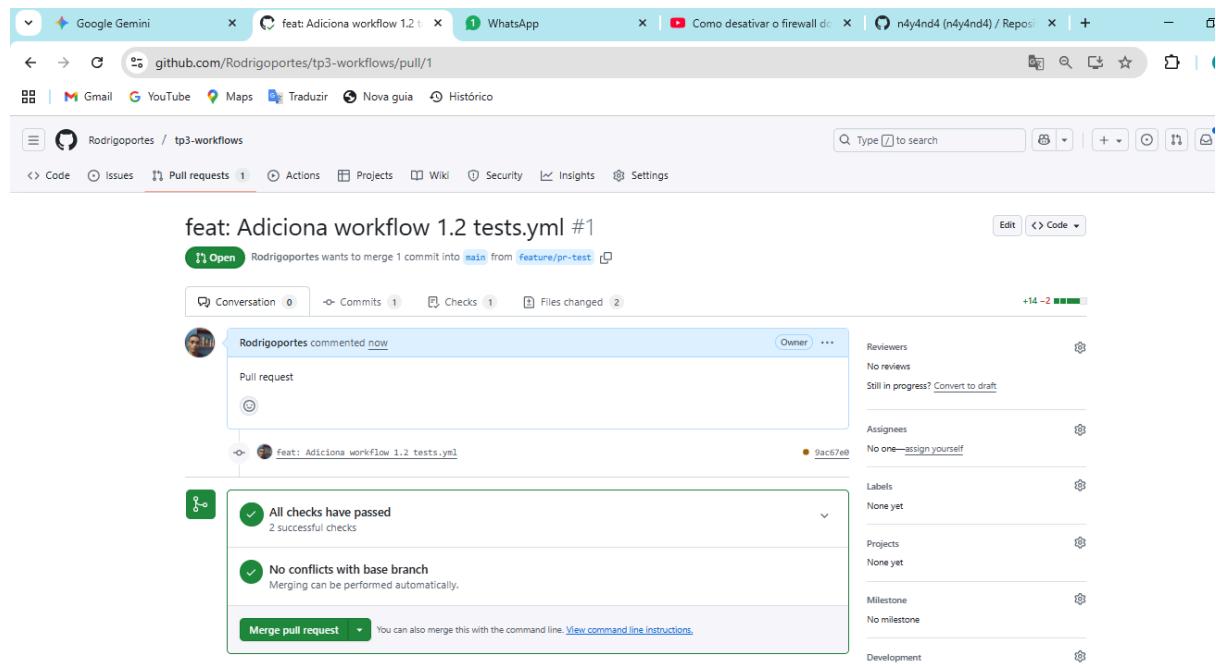
Summary at the bottom: "1 commit", "2 files changed", "1 contributor".



The screenshot shows the GitHub Actions workflow runs page for the repository 'Rodrigopores/tp3-workflows'. The left sidebar has 'Actions' selected under 'All workflows'. The main area shows three workflow runs:

- feat: Adiciona workflow 1.2 tests.yml**: Run #1, opened by Rodrigopores, status: feature/pr-test, 1 minute ago, 7s.
- feat: Adiciona workflow 1.2 tests.yml**: Run #2, commit adabf73 pushed by Rodrigopores, status: feature/pr-test, 2 minutes ago, 5s.
- feat: Adiciona workflow 1.1 hello.yml**: Run #1, commit adabf73 pushed by Rodrigopores, status: main, 6 minutes ago, 7s.

A 'Help us improve GitHub Actions' survey is visible at the top right.



The screenshot shows the GitHub pull request page for pull request #1, titled 'feat: Adiciona workflow 1.2 tests.yml'. The pull request is open, merging from 'feature/pr-test' into 'main'. The conversation tab shows a comment from Rodrigopores. The pull request details include:

- Conversation**: 0 messages.
- Commits**: 1 (by Rodrigopores).
- Checks**: 1 (all passed).
- Files changed**: 2.

The pull request summary shows:

- All checks have passed**: 2 successful checks.
- No conflicts with base branch**: Merging can be performed automatically.

On the right, there are sections for Reviewers, Assignees, Labels, Projects, Milestone, and Development, all currently empty.

Triggered via pull request 2 minutes ago

Rodrigopores opened #1 [feature/pr-test](#)

Status	Total duration	Artifacts
Success	7s	-

**tests.yml**  
on: pull\_request

run-tests 4s

feat: Adiciona workflow 1.2 tests.yml para PR #1

Merged Rodrigopores merged 1 commit into [main](#) from [feature/pr-test](#) now

Conversation 0 Commits 1 Checks 2 Files changed 1

Rodrigopores commented 14 minutes ago  
Criando pull request

feat: Adiciona workflow 1.2 tests.yml para PR

Rodrigopores merged commit [4079dc5](#) into [main](#) now  
2 checks passed

Pull request successfully merged and closed  
You're all set — the [feature/pr-test](#) branch can be safely deleted.

Add a comment

Write Preview Add your comment here...

Reviewers  
No reviews  
Still in progress? Convert

Assignees  
No one—assign yourself

Labels  
None yet

Projects  
None yet

Milestone  
No milestone

Development  
Successfully merging this issue.

Crie um workflow

7 workflow runs			
		Event ▾ Status ▾ Branch ▾ Actor ▾	
✓ Merge pull request #1 from Rodrigoportes/feature/pr-test	main	1 minute ago 24s	...
1.3 Maven CI Pipeline #1: Commit 7e61861 pushed by Rodrigoportes			
✓ Merge pull request #1 from Rodrigoportes/feature/pr-test	main	1 minute ago 7s	...
1.1 Hello CI/CD Workflow #4: Commit 7e61861 pushed by Rodrigoportes			
✓ feat: Adiciona workflow 1.2 tests.yml	feature/pr-test	10 minutes ago 10s	...
1.2 Run Tests on PR #2: Pull request #1 synchronize by Rodrigoportes			
✓ feat: Adiciona workflow 1.3 maven-ci.yml	feature/pr-test	10 minutes ago 7s	...
1.1 Hello CI/CD Workflow #3: Commit 9fb0bad pushed by Rodrigoportes			

The screenshot shows a GitHub Actions run details page for a workflow named 'fix: Corrige erro de novo #4'. The 'set-env' job is highlighted in green, indicating success. The job summary shows it succeeded 3 minutes ago in 2s. The job log pane displays three steps: 'Set up job', 'Display Environment Variable', and 'Complete job', each with a duration of 0s.

## Configure um secret

Google Gemini | Add Actions secret | WhatsApp | Como desativar o fire | n4y4nd4 (n4y4nd4) | Trocar branch no Git | +

github.com/Rodrigoportes/tp3-workflows/settings/secrets/actions/new

Gmail YouTube Maps Traduzir Nova guia Histórico

Rodrigoportes / tp3-workflows

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

General Actions secrets / New secret

Name \* MY\_SECRET

Secret \*

valor-secreto-tp3

Add secret

Access Collaborators Moderation options

Code and automation Branches Tags Rules Actions Models Webhooks Copilot Environments Codespaces Pages

Security Advanced Security Deploy keys

feat: Adiciona workflow 2.3 secrets-demo.yml #1

Triggered via push 1 minute ago Status Success Total duration 6s Artifacts

Rodrigoportes pushed > b904a19 main

Re-run all jobs

Summary Jobs use-secret

Run details Usage Workflow file

secrets-demo.yml on push

use-secret 3s

← → ⌂ [github.com/Rodrigoportes/tp3-workflows/actions/runs/20053256920/job/57513340809](https://github.com/Rodrigoportes/tp3-workflows/actions/runs/20053256920/job/57513340809)

Gmail YouTube Maps Traduzir Nova guia Histórico

Rodrigoportes / tp3-workflows

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

← 2.3 Secrets Demo feat: Adiciona workflow 2.3 secrets-demo.yml #1 Re-run all jobs ..

Summary

Jobs use-secret

Run details Usage Workflow file

**use-secret** succeeded 3 minutes ago in 3s

Search logs

Set up job

```

1 Current runner version: '2.329.0'
2 ▶ Runner Image Provisioner
7 ▶ Operating System
11 ▶ Runner Image
16 ▶ GITHUB_TOKEN Permissions
20 Secret source: Actions
21 Prepare workflow directory
22 Prepare all required actions
23 Complete job name: use-secret

```

Display Secret (Mascara o valor)

```

1 ▶ Run echo "Tentando usar o segredo: ****"
4 Tentando usar o segredo: ***

```

Complete job

```

1 Cleaning up orphan processes

```

**use-secret** succeeded 3 minutes ago in 3s

Set up job

```

1 Current runner version: '2.329.0'
2 ▶ Runner Image Provisioner
7 ▶ Operating System
11 ▶ Runner Image
16 ▶ GITHUB_TOKEN Permissions
20 Secret source: Actions
21 Prepare workflow directory
22 Prepare all required actions
23 Complete job name: use-secret

```

Display Secret (Mascara o valor)

```

1 ▶ Run echo "Tentando usar o segredo: ****"
4 Tentando usar o segredo: ***

```

Complete job

```

1 Cleaning up orphan processes

```

### 3.1: Release Deploy Workflow

Tag: v1.0.0 Target: main

Excellent! This tag will be created from the target when you publish this release.

Release title: Novo realise

Release notes: Previous tag: Auto Generate release notes

Write Preview

Describe this realise

Rodrigopores released this now v1.0.0 4379f13

Describe this realise

Assets 2

Source code (zip) 5 min  
Source code (tar.gz) 5 min

The screenshot shows a web browser window with three tabs: "Google Gemini", "feat: Adiciona workflow", and "WhatsApp". The active tab is "feat: Adiciona workflow", which displays the URL [github.com/Rodrigoportes/tp3-workflows/actions/runs/20053495700](https://github.com/Rodrigoportes/tp3-workflows/actions/runs/20053495700). The page content is for a pull request titled "feat: Adiciona workflow 3.1 release-deploy.yml #7". On the left, there's a sidebar with "Summary", "Jobs" (selected), "Run details", "Usage", and "Workflow file". The main area shows a single job named "set-env" with a green checkmark. The job summary says "succeeded 1 minute ago in 3s". The steps listed are: "Set up job", "Display Environment Variable", and "Complete job".

## Configurar Matrix Strategy

The screenshot shows a code editor interface with a dark theme. The left sidebar shows a project structure with a folder named "tp3-workflows" containing ".github", "workflows", ".idea", "src", and "br.com.infnet". Inside "workflows", there are several files: "env-demo.yml", "hello.yml", "matrix-demo.yml" (which is selected and highlighted in grey), "maven-ci.yml", "release-deploy.yml", "secrets-demo.yml", and "tests.yml". The right pane displays the content of "matrix-demo.yml". The code defines a workflow named "3.2 Matrix Strategy Demo" triggered by a push event. It uses a matrix strategy with two Java versions ("11" and "17") and a build-test job that runs on Ubuntu latest. The steps include setting up the JDK and Java environment.

```
name: 3.2 Matrix Strategy Demo
on: [push]

jobs:
  build-test:
    runs-on: ubuntu-latest
    strategy:
      matrix:
        java: [ '11', '17' ]
    steps:
      - uses: actions/checkout@v4
      - name: Set up JDK ${{ matrix.java }}
        uses: actions/setup-java@v4
        with:
```

36 workflow runs		
	Event ▾	Status ▾
	Branch ▾	
✓ feat: Adiciona workflow 3.2 matrix-demo.yml 3.2 Matrix Strategy Demo #1: Commit a77f6ed pushed by Rodrigoportes	main	19 minutes ago 9s
✓ feat: Adiciona workflow 3.2 matrix-demo.yml 2.3 Secrets Demo #4: Commit a77f6ed pushed by Rodrigoportes	main	19 minutes ago 5s
✓ feat: Adiciona workflow 3.2 matrix-demo.yml env-demo #8: Commit a77f6ed pushed by Rodrigoportes	main	19 minutes ago 4s
✓ feat: Adiciona workflow 3.2 matrix-demo.yml 1.1 Hello CI/CD Workflow #12: Commit a77f6ed pushed by Rodrigoportes	main	19 minutes ago 4s
✓ feat: Adiciona workflow 3.2 matrix-demo.yml 1.3 Maven CI Pipeline #8: Commit a77f6ed pushed by Rodrigoportes	main	19 minutes ago 13s

Teste de Performance - TP3 [Obrigatório]

---

Olá Rodrigo,

Chegamos em uma das etapas de preparação! A cada Teste de Performance (TP) você terá a oportunidade de praticar os conhecimentos adquiridos e receber feedbacks relevantes para o seu aprendizado.

## Uso de IAs: Sinal Vermelho

Todas as partes deste trabalho devem ser da autoria do aluno. Qualquer uso de ferramentas generativas de IA, como ChatGPT, é proibido. O uso de IA generativa será considerado má conduta acadêmica e estará sujeito à aplicação do código disciplinar, pois as tarefas deste trabalho foram elaboradas para desafiar o aluno a desenvolver conhecimentos de base, pensamento crítico e habilidades de resolução de problemas. O uso da tecnologia de IA limitaria sua capacidade de desenvolver essas competências e de atingir os objetivos de aprendizagem desta disciplina.

## Parte 1 Workflows Básicos no GitHub Actions

1. Crie no seu repositório um workflow hello.yml que:
  - Rode em qualquer push.
  - Exiba "Hello CI/CD" no log.
  - Documente no PDF com print e link da execução.
2. Crie um workflow tests.yml que:
  - Seja disparado em pull\_request.
  - Use actions/checkout.
  - Execute echo "Rodando testes".
  - Documente no PDF com print e link da execução.
3. Crie um workflow gradle-ci.yml que:
  - Rode em push para a branch main.
  - Use runs-on: ubuntu-latest.
  - Execute ./gradlew build ou similar do maven.
  - Documente no PDF com prints e link do log de execução.

## Parte 2 Runners, Variáveis e Segurança

1. Crie um workflow env-demo.yml que utilize uma variável de ambiente DEPLOY\_ENV=staging e exiba no log.
  - Documente com print e link da execução.

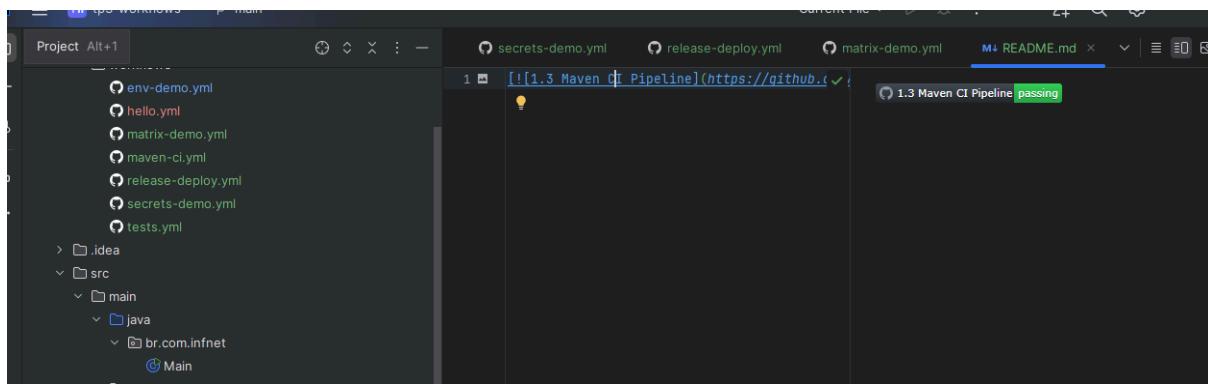
2. Configure um secret no repositório chamado API\_KEY e crie um workflow secret-demo.yml que mostre no log a mensagem API\_KEY configurado (sem expor o valor real).
  - Documente com print e link da execução.
3. Explique no PDF a diferença entre runners hospedados pelo GitHub e auto-hospedados, citando vantagens e desvantagens.

## Parte 3 Deploys e Estratégias

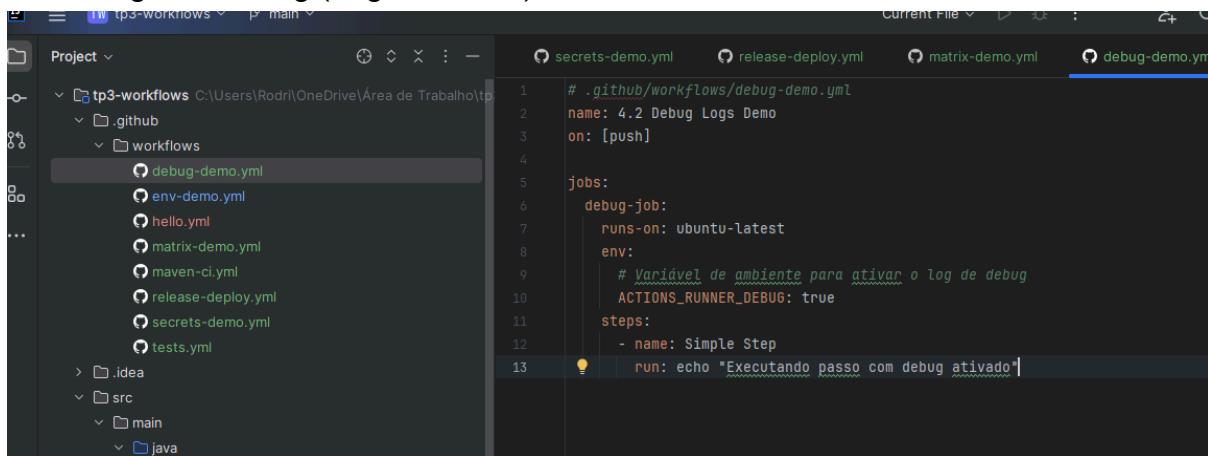
1. Crie um workflow release-deploy.yml que:
  - Seja disparado em release published.
  - Execute echo "Deploy realizado com sucesso".
  - Documente no PDF com print e link da execução.
2. Configure um workflow com matrix strategy para rodar em duas versões do Java (11 e 17), exibindo a versão ativa no log.
  - Documente no PDF com prints e link da execução.
3. Explique no PDF a diferença entre as estratégias de deploy Blue-Green e Rolling Update, e dê exemplos de cenários onde cada uma é mais adequada.

## Parte 4 Monitoramento e Logs

1. Adicione um badge de status no README.md do repositório apontando para um dos workflows criados.



## Ativar Logs de Debug (Log Adicional)

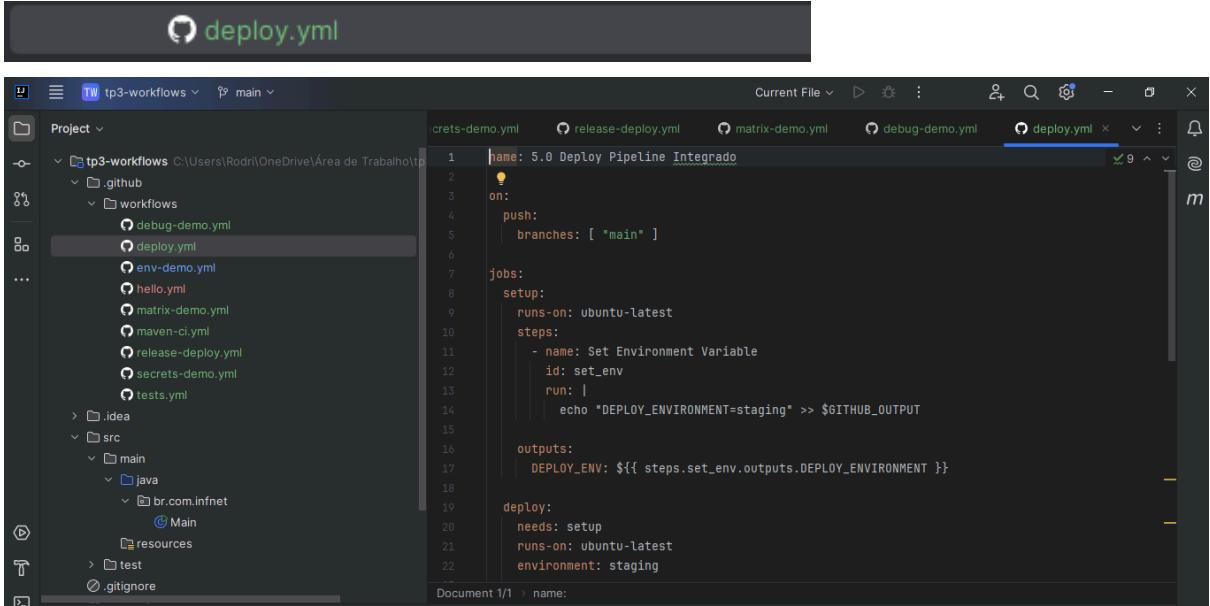


## Explique no PDF como mascarar dados sensíveis nos logs do GitHub

### Actions.

Para manter as informações sensíveis protegidas nos logs do GitHub Actions, usamos os **GitHub Secrets**, que ocultam automaticamente dados como senhas e tokens. Quando precisamos esconder algum valor que é criado durante a execução do workflow, utilizamos o comando `::add-mask::`, que faz com que esse valor apareça mascarado. Além disso, é importante evitar imprimir diretamente qualquer dado confidencial nos logs, garantindo mais segurança no processo.

Crie um workflow deploy.yml completo que:



```
name: 5.0 Deploy Pipeline Integrado
on:
  push:
    branches: [ "main" ]
jobs:
  setup:
    runs-on: ubuntu-latest
    steps:
      - name: Set Environment Variable
        id: set_env
        run:
          echo "DEPLOY_ENVIRONMENT=staging" >> $GITHUB_OUTPUT
outputs:
  DEPLOY_ENV: ${{ steps.set_env.outputs.DEPLOY_ENVIRONMENT }}
deploy:
  needs: setup
  runs-on: ubuntu-latest
  environment: staging
```

feat: Adiciona workflow 5.0 deploy.yml integrado env-demo #11: Commit 57b2998 pushed by Rodrigoportes	main	now ⌚ 6s	...
feat: Adiciona workflow 5.0 deploy.yml integrado 2.3 Secrets Demo #7: Commit 57b2998 pushed by Rodrigoportes	main	now ⌚ 5s	...
feat: Adiciona workflow 5.0 deploy.yml integrado 3.2 Matrix Strategy Demo #4: Commit 57b2998 pushed by Rodrigoportes	main	now ⌚ 11s	...
feat: Adiciona workflow 5.0 deploy.yml integrado 1.3 Maven CI Pipeline #11: Commit 57b2998 pushed by Rodrigoportes	main	now ⌚ 14s	...
feat: Adiciona workflow 5.0 deploy.yml integrado 1.1 Hello CI/CD Workflow #15: Commit 57b2998 pushed by Rodrigoportes	main	now ⌚ 8s	...