



Certified Tech Developer

The Ultimate Degree

Infraestrutura II

Configurando nosso servidor para Deploy - Parte 7

É hora de completar nossa pipeline, finalizando o processo de Deploy.

Objetivo final da prática

- Proteger nossa branch principal: Main
- Atualizar nossa pipeline com o Job de deploy
- Abrir uma MR para main e executando a Pipeline
- Liberar a porta 8080 na nossa EC2
- O resultado

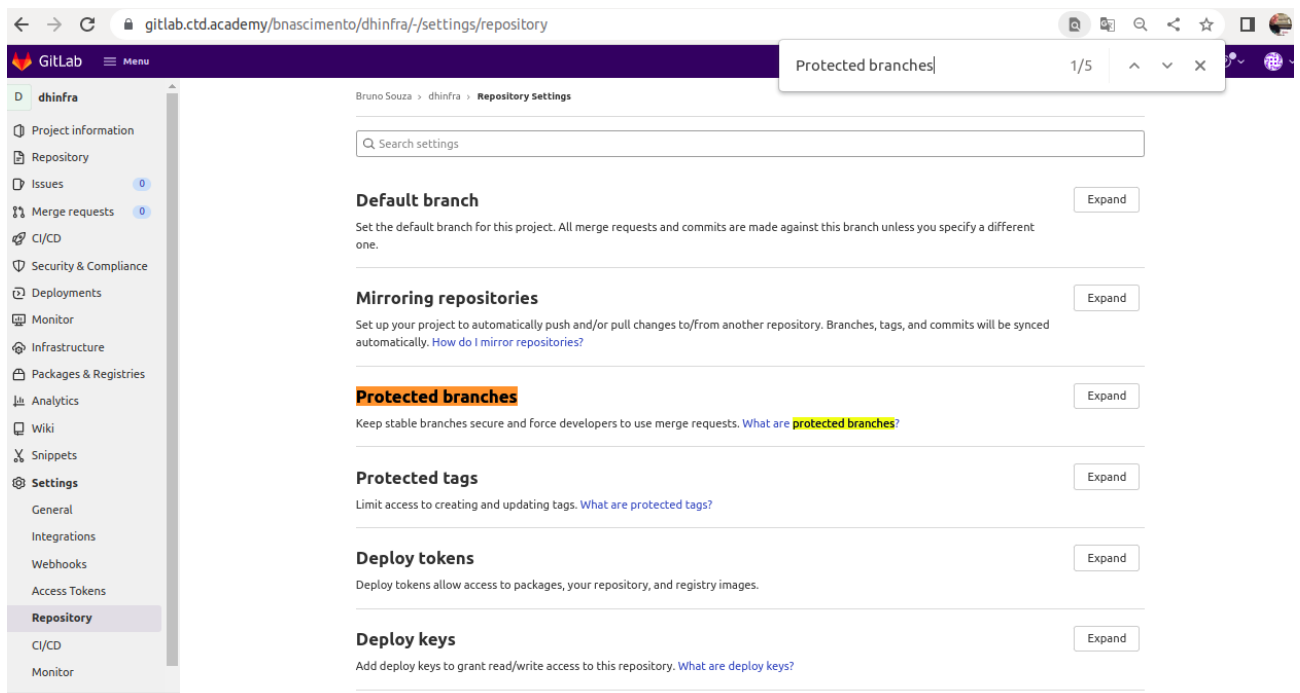
Mãos à obra!

Na aula anterior criamos todo nosso ambiente e configuramos nosso gitlab, agora precisamos modificar nossa pipeline para ter a ação de deploy

Proteger nossa branch principal: Main

Vamos proteger a main para receber merges somente com Merge Requests para aumentar a curadoria e confiabilidade do nosso código

- Para isso, vamos no nosso repo **dhinfra** > settings > repository e clicar em **"Protected Branches"**



- Em seguida vamos expandir a opção, preencher o form e clicar em **“Protect”**

Protected branches

Keep stable branches secure and force developers to use merge requests. [What are protected branches?](#)

By default, protected branches restrict who can modify the branch. [Learn more.](#)

Protect a branch

Branch: Wildcards such as `*-stable` or `production/*` are supported.

Allowed to merge:

Allowed to push:

Allowed to force push: ☒ Allow all users with push access to **force push**.

Branch	Allowed to merge	Allowed to push	Allowed to force push ?
main default	Developers + Ma... ▾	Developers + Ma... ▾	<input checked="" type="checkbox"/> Unprotect

Atualizar nossa pipeline com o Job de deploy

Agora vamos adicionar o step de deploy no nosso **.gitlab-ci.yml**

Importante: alterem e já comitem para branch main

- Adicionar o stage

```
image: maven:3.6.3
```

```
stages:
```

- build
- test
- package
- deploy

- Configurar o Stage

```
deploy_job:
```

```
  stage: deploy
```

```
  image: alpine:3.11
```

```
  before_script:
```

```
    - apk update && apk add openssh-client bash # instalando o
client openssh para permitir conexao
    - mkdir -p ~/.ssh
    - eval $(ssh-agent -s) # habilitando o ssh agent
    - echo "$AWS_ACESS_KEY_ID" | tr -d '\r' | ssh-add -
#cadastrando nossa key
    - touch ~/.ssh/config
    - echo -e "Host *\n\tStrictHostKeyChecking no\n\n" >
~/.ssh/config #permitindo acesso a qualquer host sem pré verificação
(yes/no)
```

```
  script:
```



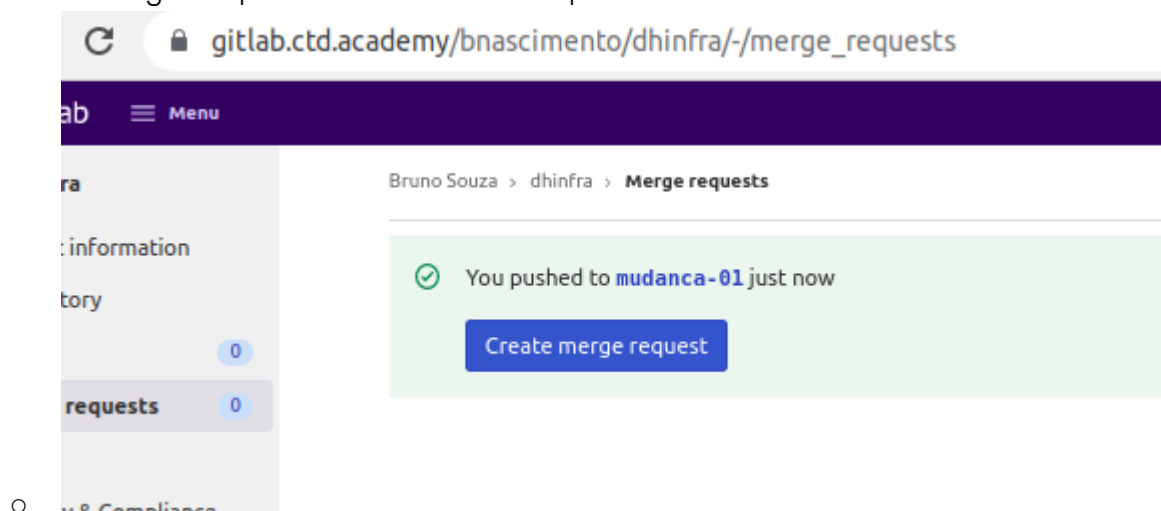
```
- echo "Deploying started..."
- echo "[0] Copying new jar to Server...."
- scp ./target/dhinfra-1.0-SNAPSHOT.jar
ubuntu@$BACKEND_PROD_IP:~/ #copiando nosso .jar para a /home/ubuntu do
servidor
- echo "[1] Stop old process"
- ssh ubuntu@$BACKEND_PROD_IP "sudo systemctl stop dhapp" #
pausando o nosso pequeno servidor
- echo "[1] Start process"
- ssh ubuntu@$BACKEND_PROD_IP "sudo systemctl start dhapp" #
iniciando o nosso pequeno servidor novamente
- echo "Finished deploying the app."
only:
- main #permite a execução somente na branch master
```

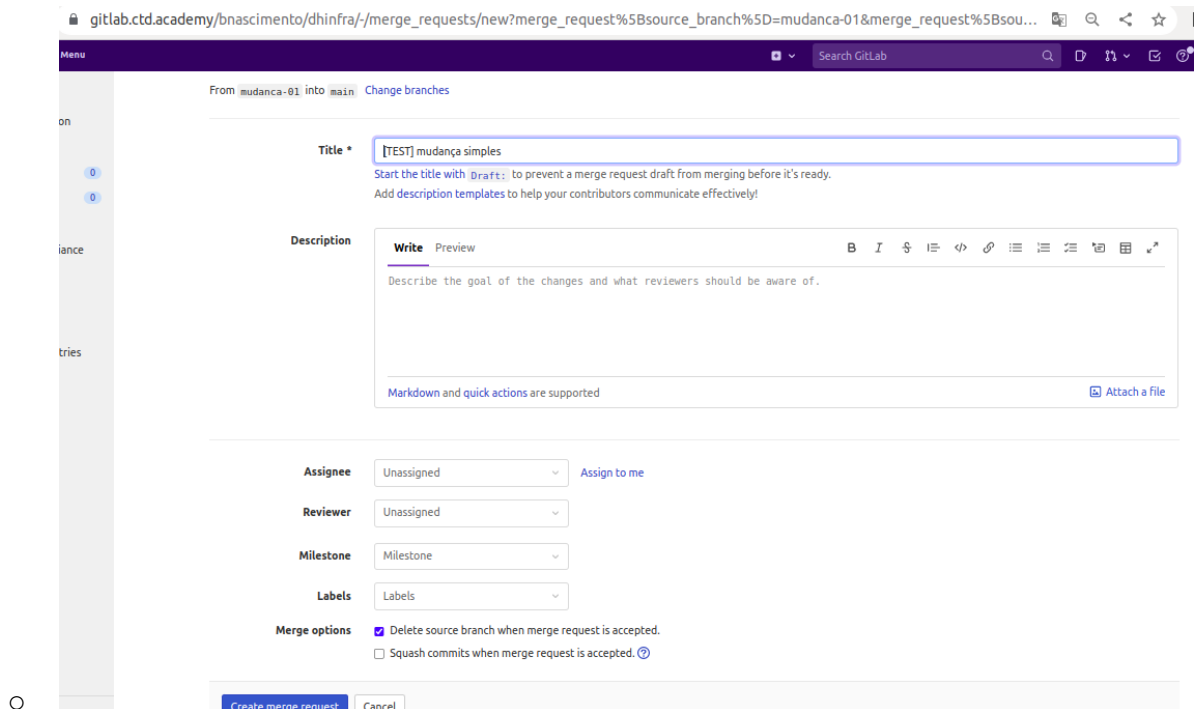
Abrir uma MR para main e executando a Pipeline

Agora devemos fazer uma leve modificação no nosso código, podendo ser no próprio Readme.md, porém em uma branch diferente

Para isso:

- Crie uma branch chamada de **mudanca-01**
- Faça qualquer alteração simples (pode ser textual no readme, comentários no código, ...)
- Abra um Merge Request da **mudanca-01** para **main**





gitlab.ctd.academy/bnascimento/dhinfra/-/merge_requests/new?merge_request%5Bsource_branch%5D=mudanca-01&merge_request%5Bsource_branch%5D=main

From `mudanca-01` into `main` [Change branches](#)

Title *
Start the title with `Draft:` to prevent a merge request draft from merging before it's ready.
Add description templates to help your contributors communicate effectively!

Description Write Preview
Describe the goal of the changes and what reviewers should be aware of.
Markdown and quick actions are supported [Attach a file](#)

Assignee Unassigned [Assign to me](#)

Reviewer Unassigned

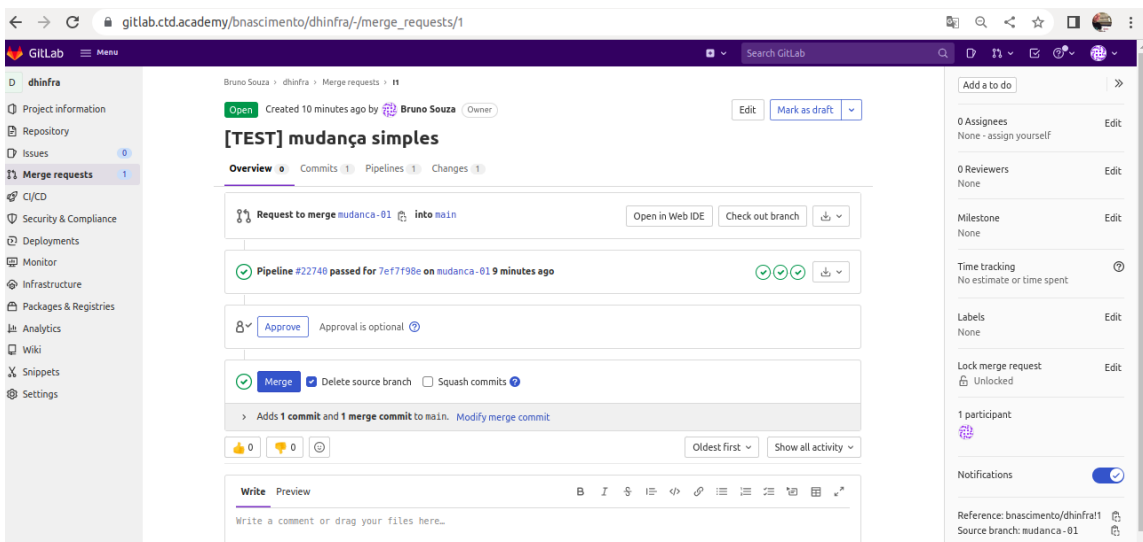
Milestone Milestone

Labels Labels

Merge options ☒ Delete source branch when merge request is accepted.
☐ Squash commits when merge request is accepted. [?](#)

[Create merge request](#) [Cancel](#)

- Aprove o seu próprio merge request, clicando em **“merge”**



gitlab.ctd.academy/bnascimento/dhinfra/-/merge_requests/1

GitLab [Menu](#) Search GitLab

dhinfra
Project Information
Repository
Issues
Merge requests 1
CI/CD
Security & Compliance
Deployments
Monitor
Infrastructure
Packages & Registries
Analytics
Wiki
Snippets
Settings

Bruno Souza > dhinfra > Merge requests > 11
[Open](#) Created 10 minutes ago by [Bruno Souza](#) [Owner](#) [Edit](#) [Mark as draft](#)

[TEST] mudança simples

Overview [Commits](#) [Pipelines](#) [Changes](#)

[Request to merge](#) `mudanca-01` [into main](#) [Open in Web IDE](#) [Check out branch](#) [Download](#)

[Pipeline #22740 passed for 7ef7f98e on mudanca-01 9 minutes ago](#) [Download](#)

[Approve](#) Approval is optional [?](#)

[Merge](#) ☒ Delete source branch ☐ Squash commits [?](#)

> Adds 1 commit and 1 merge commit to main. [Modify merge commit](#)

[Like](#) 0 [Dislike](#) 0 [Comment](#) [Show all activity](#)

Write Preview
Write a comment or drag your files here...

[Add a to do](#)

0 Assignees
None - assign yourself [Edit](#)

0 Reviewers
None [Edit](#)

Milestone
None [Edit](#)

Time tracking
No estimate or time spent [?](#)

Labels
None [Edit](#)

Lock merge request
Unlocked [Edit](#)

1 participant
[Bruno Souza](#)

Notifications [On](#)

Reference: bnascimento/dhinfra!1
Source branch: mudanca-01

- Observe a pipeline rodar

Liberar a porta 8080 na nossa EC2

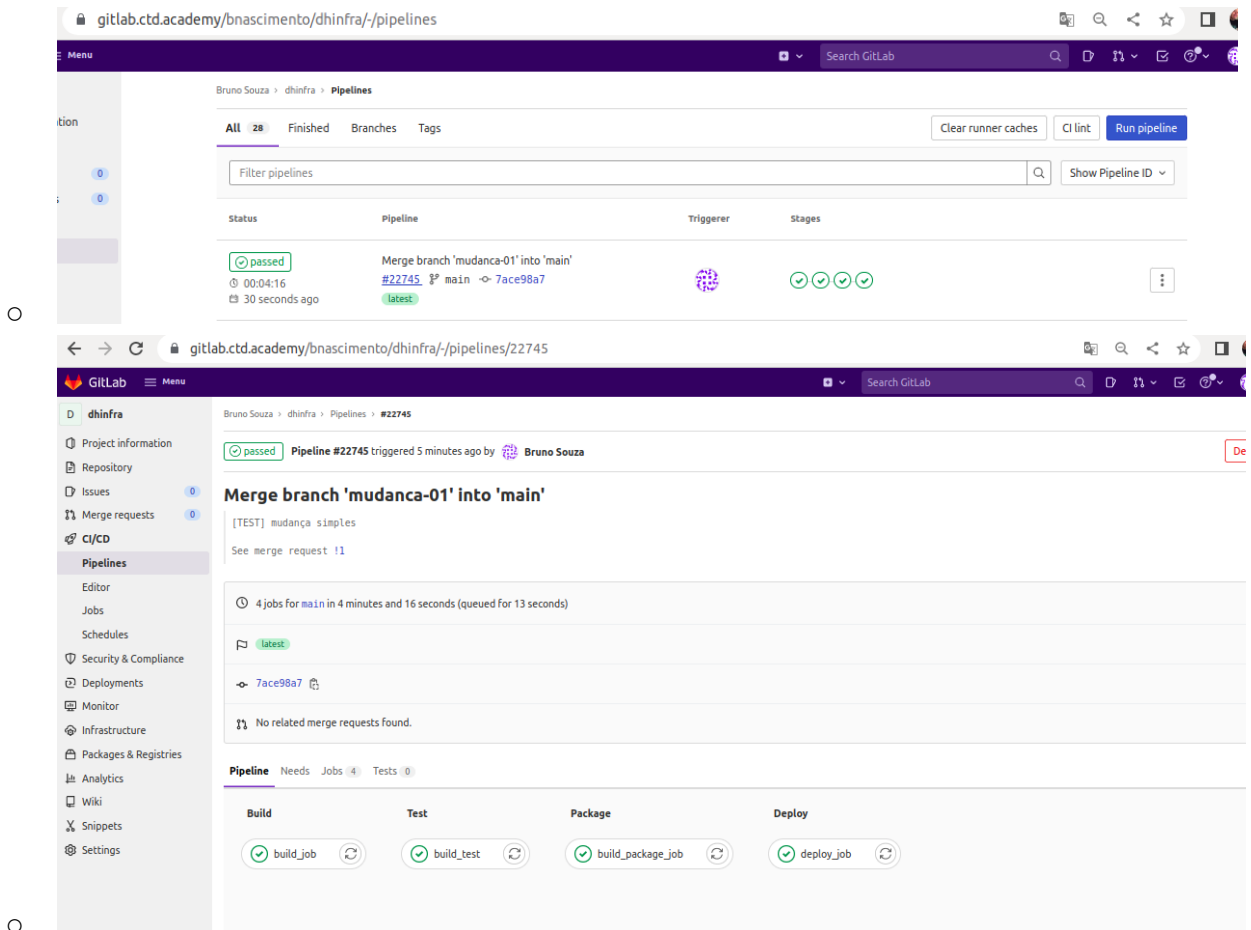
Missão:

Para testar o resultado da nossa aplicação é necessário liberar a porta 8080 no security group associado na nossa EC2. Você pode fazer isso via Terraform (IaC) ou via Console Web da AWS

O resultado

Se tudo estiver correto, então:

- Sua pipeline tem que estar assim:



The first screenshot shows the GitLab Pipelines page for the project 'gitlab.ctd.academy/bnascimento/dhinfra'. It displays a table of pipelines with the following details:

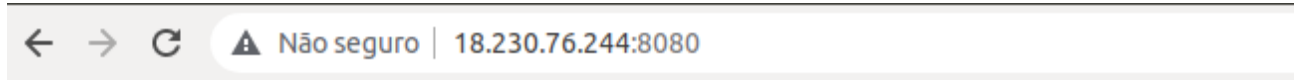
Status	Pipeline	Triggerer	Stages
passed	Merge branch 'mudanca-01' into 'main' #22745 7ace98a7 latest		4 green checkmarks

The second screenshot shows the detailed view of pipeline #22745. It indicates that the pipeline was triggered 5 minutes ago by Bruno Souza. The title is 'Merge branch 'mudanca-01' into 'main''. The description includes '[TEST] mudança simples' and 'See merge request !1'. It shows '4 jobs for main in 4 minutes and 16 seconds (queued for 13 seconds)'. The jobs listed are:

- build_job (passed)
- build_test (passed)
- build_package_job (passed)
- deploy_job (passed)



- Seu servidor, acessado via web



Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Tue Nov 29 00:04:44 UTC 2022

There was an unexpected error (type=Not Found, status=404).

- Seu servidor, via console:

```
ubuntu@ip-172-31-14-186:~$ sudo systemctl status dhapp
● dhapp.service - REST Service
   Loaded: loaded (/etc/systemd/system/dhapp.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2022-11-27 14:30:00 UTC; 1 day 9h ago
     Main PID: 25594 (java)
        Tasks: 27 (limit: 1143)
       Memory: 106.2M
      CGroup: /system.slice/dhapp.service
              └─25594 /usr/bin/java -jar /home/ubuntu/dhinfra-1.0-SNAPSHOT.jar

Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.coyote.http11.Http11InputBuffer.parseRequestLi
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.coyote.http11.Http11Processor.service(Http11Pr
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.coyote.AbstractProcessorLight.process(Abstract
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.coyote.AbstractProtocol$ConnectionHandler.proce
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.do
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.tomcat.util.net.SocketProcessorBase.run(Socket
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.tomcat.util.threads.ThreadPoolExecutor.runWork
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at org.apache.tomcat.util.threads.TaskThread$WrappingRunnabl
Nov 28 18:21:42 ip-172-31-14-186 java[25594]: at java.base/java.lang.Thread.run(Thread.java:829) ~[na:na]
```