



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

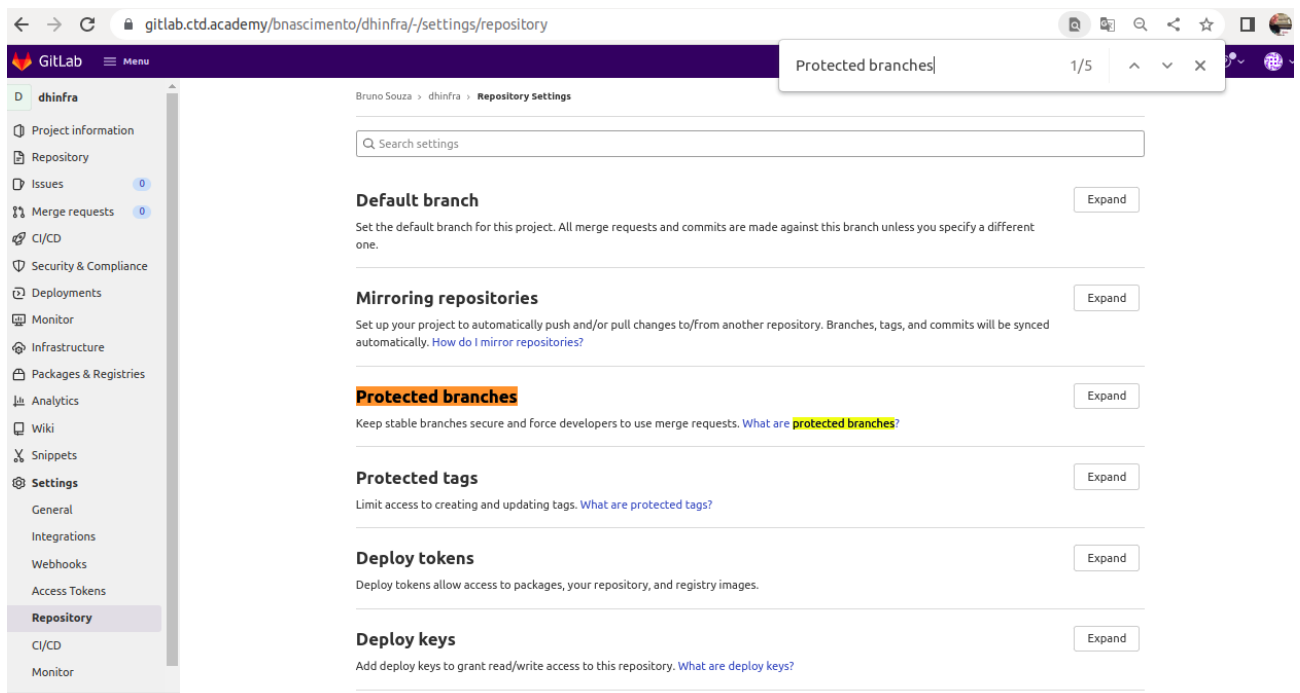
Mãos à obra!

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 $(ssh-agent -s) # habilitando o ssh agent  
    - echo "$SSH_PRIVATE_KEY" | 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:
```



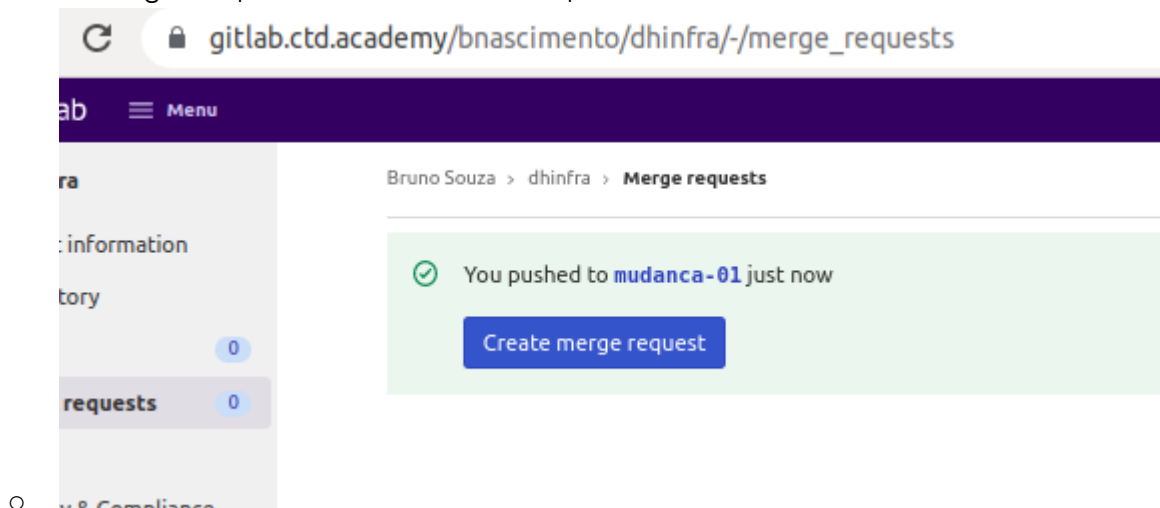
```
- echo "Deploying started..."
- echo "[0] Copying new jar to Server...."
- scp ./target/dhinfra-1.0-SNAPSHOT.jar
ubuntu@$BACKEND_PROD_IP:~/ #copiando nosso .jar para a /home/ubuntu do
servidor
- echo "[1] Stop old process"
- ssh ubuntu@$BACKEND_PROD_IP "sudo systemctl stop dhapp" #
pausando o nosso 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
```

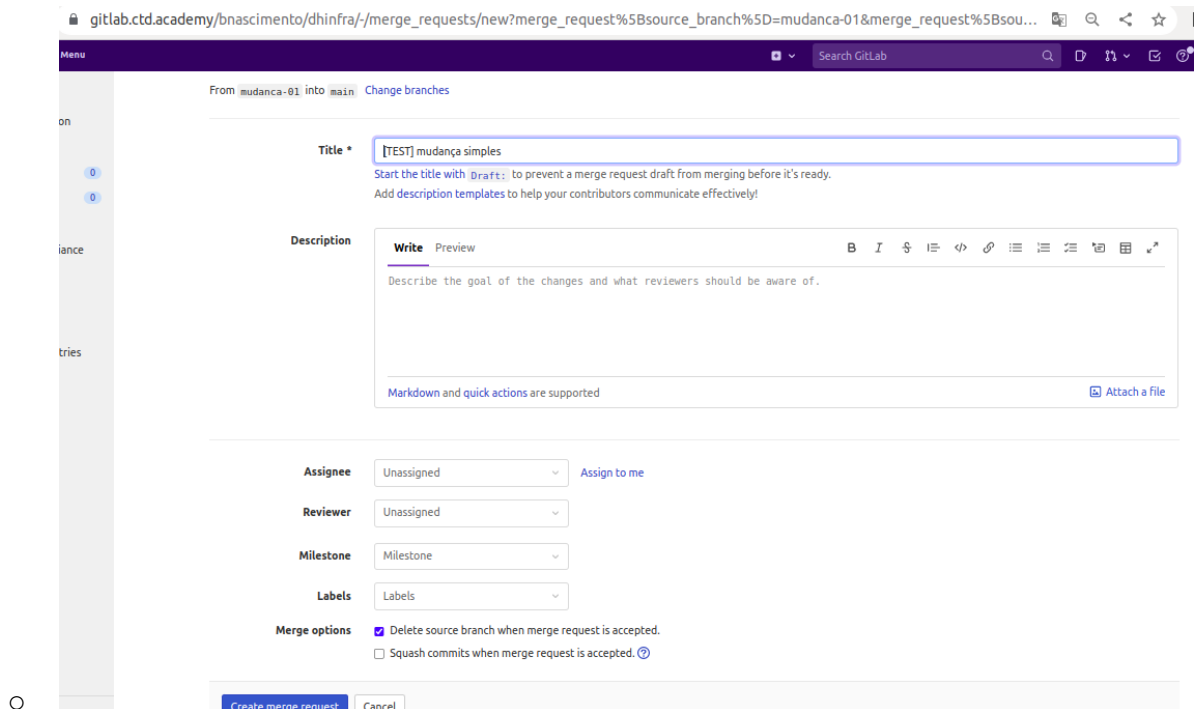
Abrir uma MR para main e executando a Pipeline

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

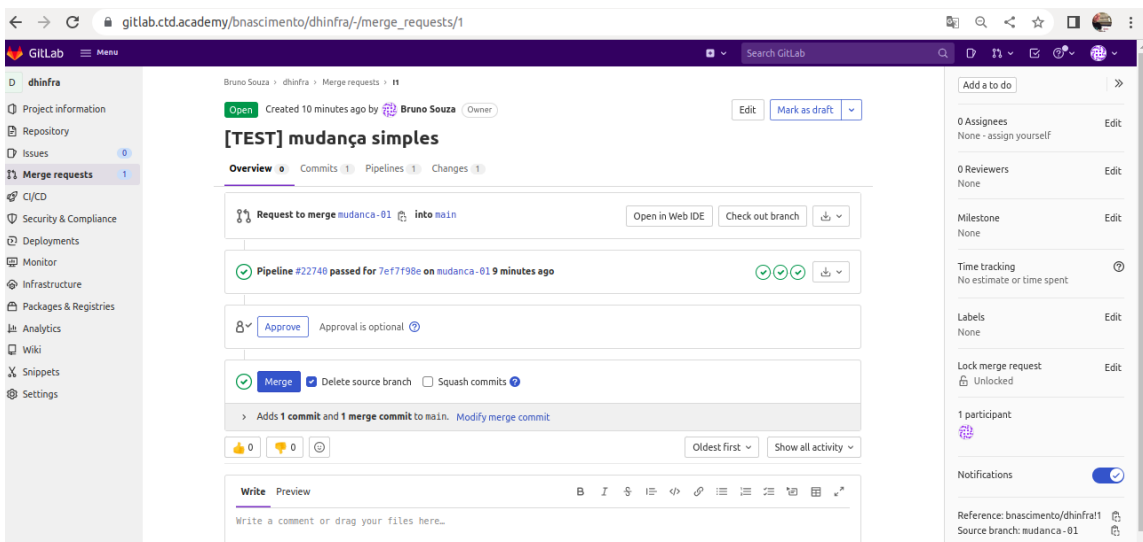
Para isso:

- 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**





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



- Observe a pipeline rodar

Liberar a porta 8080 na nossa EC2

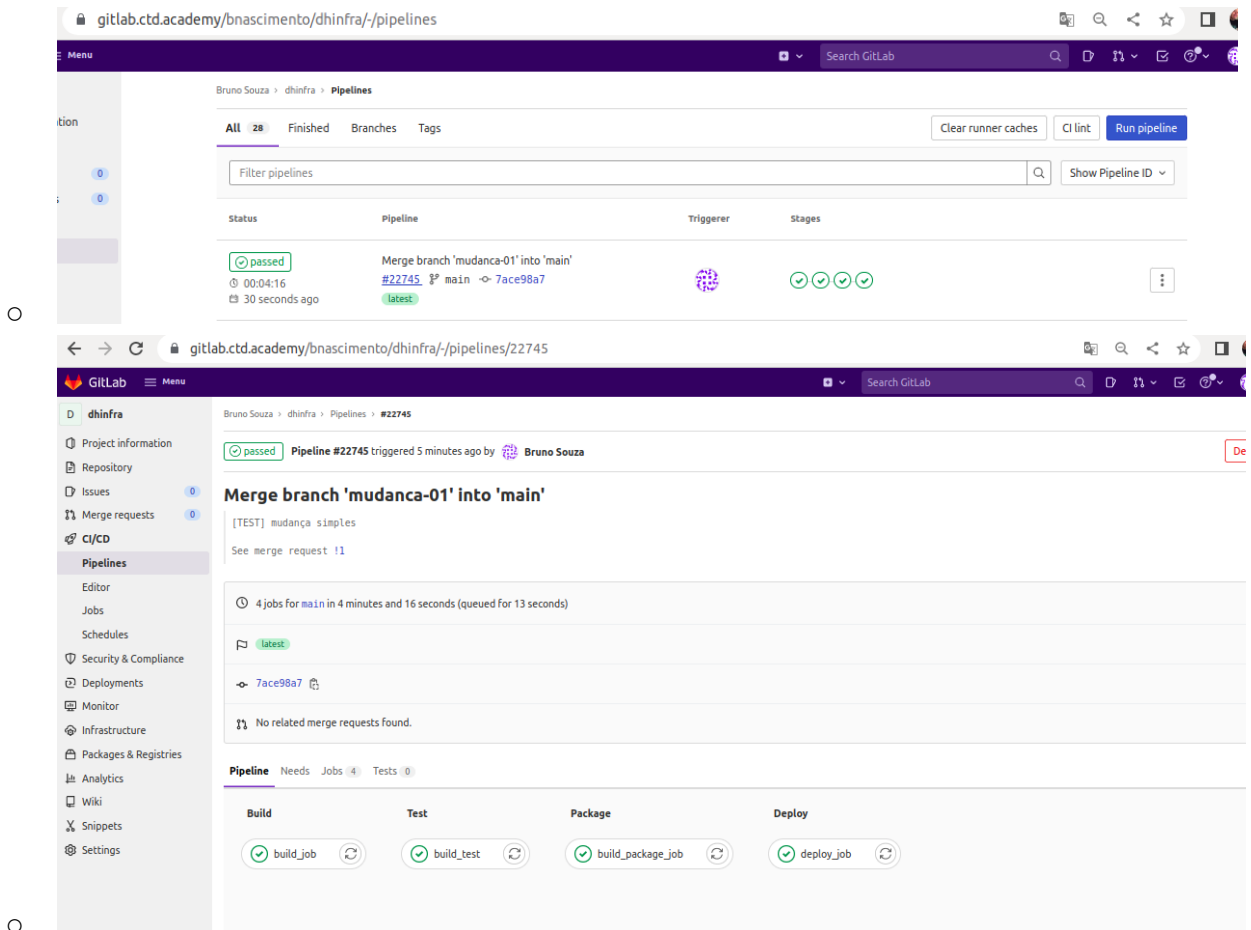
Missão:

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:



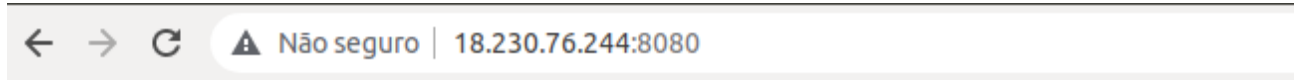
The first screenshot shows the GitLab Pipelines page for the project 'gitlab.ctd.academy/bnascimento/dhinfra'. It displays a table of pipelines with the following details:

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 that 4 jobs for 'main' are in progress, with a 'latest' status. The jobs listed are: build_job, build_test, build_package_job, and deploy_job, all with green checkmarks indicating success.



- 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]
```