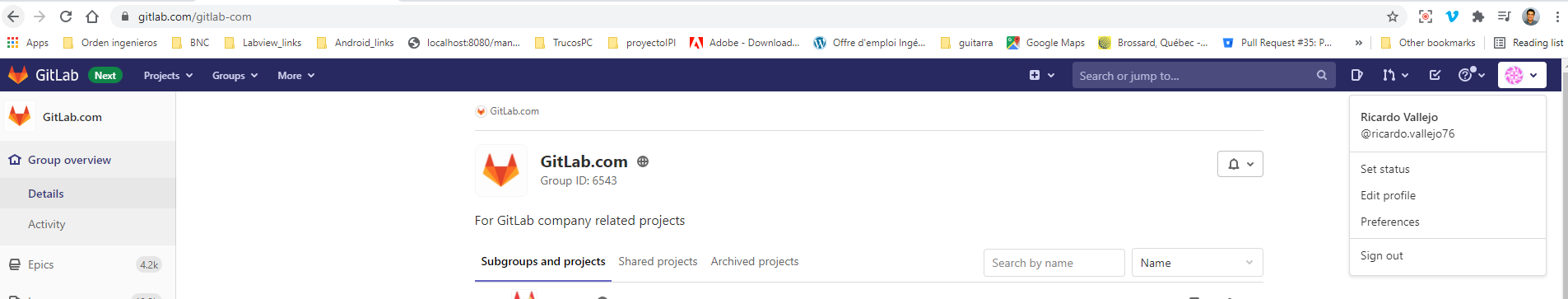
**CI/CD Pipeline – GITLAB + Docker**

**Install Gitlab**

**Create account gitlab.com – Free!**



1. Install git

google : git-scm

Verify with: git –version

git config –global user.name “gitlabuser”

git config –global user.email “gitlabuse#gmail.com.com”

git config –global –list

1. Create a new Project Demo

In the root folder of Project

git init

git add .

git status

git commit -m “Second commit”

git push -u “<https://gitlab.com/ricardo.vallejo76/firstgitlabproject.git>” master

**Install Docker**

**Hello World Docker Python Gitlab pipeline**

<https://www.tutorialkart.com/docker/docker-image-with-python-application-example/#:~:text=%20%20%201%20Create%20a%20directory%0AA%20separate,Image...%205%20Check%20the%20docker%20image%20More%20>

variables:

example: this is an example variable

stages:

- stage1

- stage2

build:

stage: stage1

script:

- echo "We are currently in stage 1"

- echo "These are the contents of test.py"

- cat test.py

- echo $example

test:

stage: stage2

script:

- echo "We are currently in stage 2"

- echo "running python script"

- python3 test.py

**Dockerfile**

FROM python

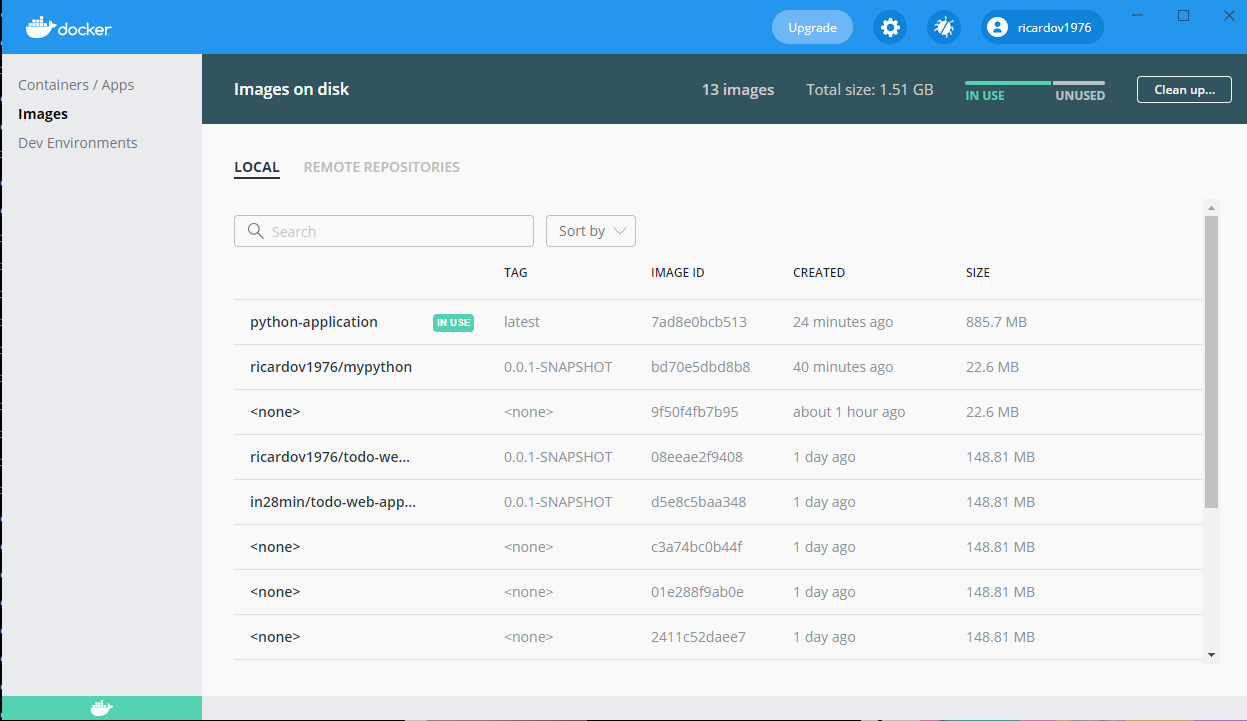
COPY . /src

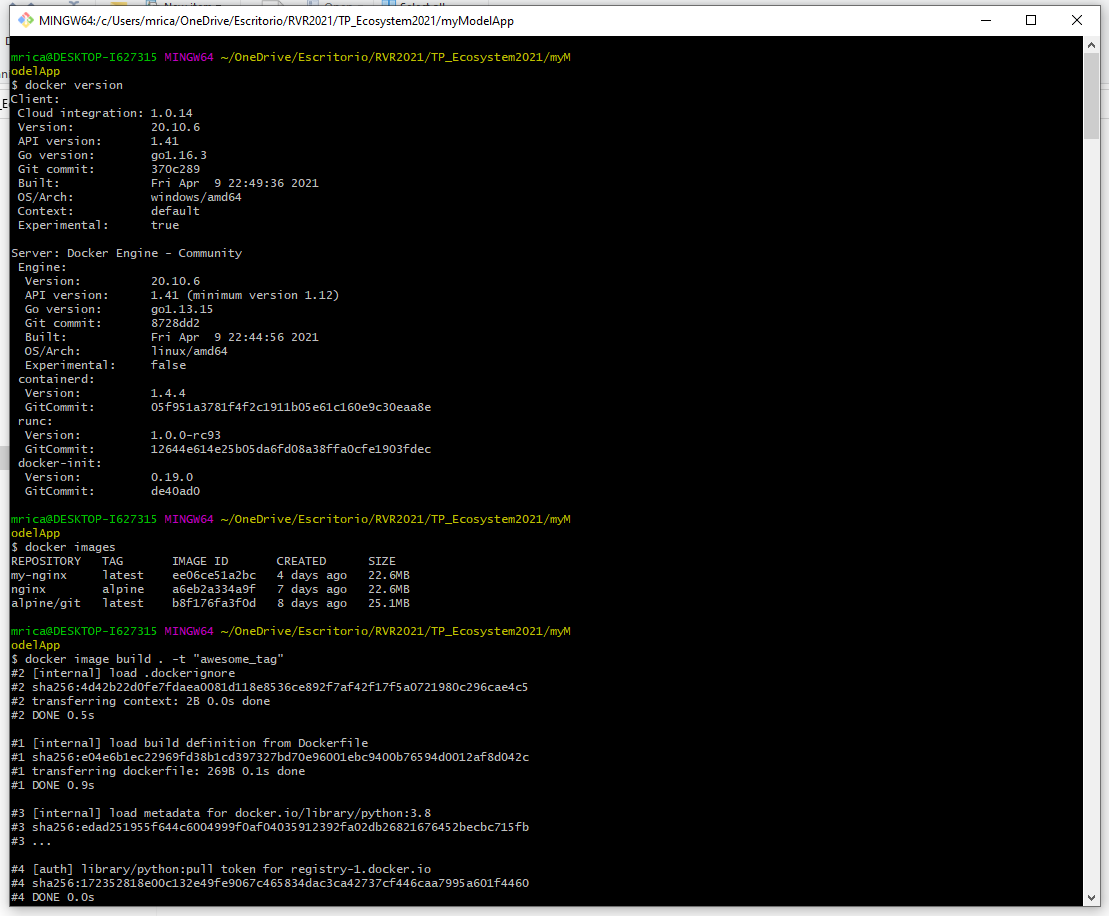
CMD ["python", "/src/test2.py"]

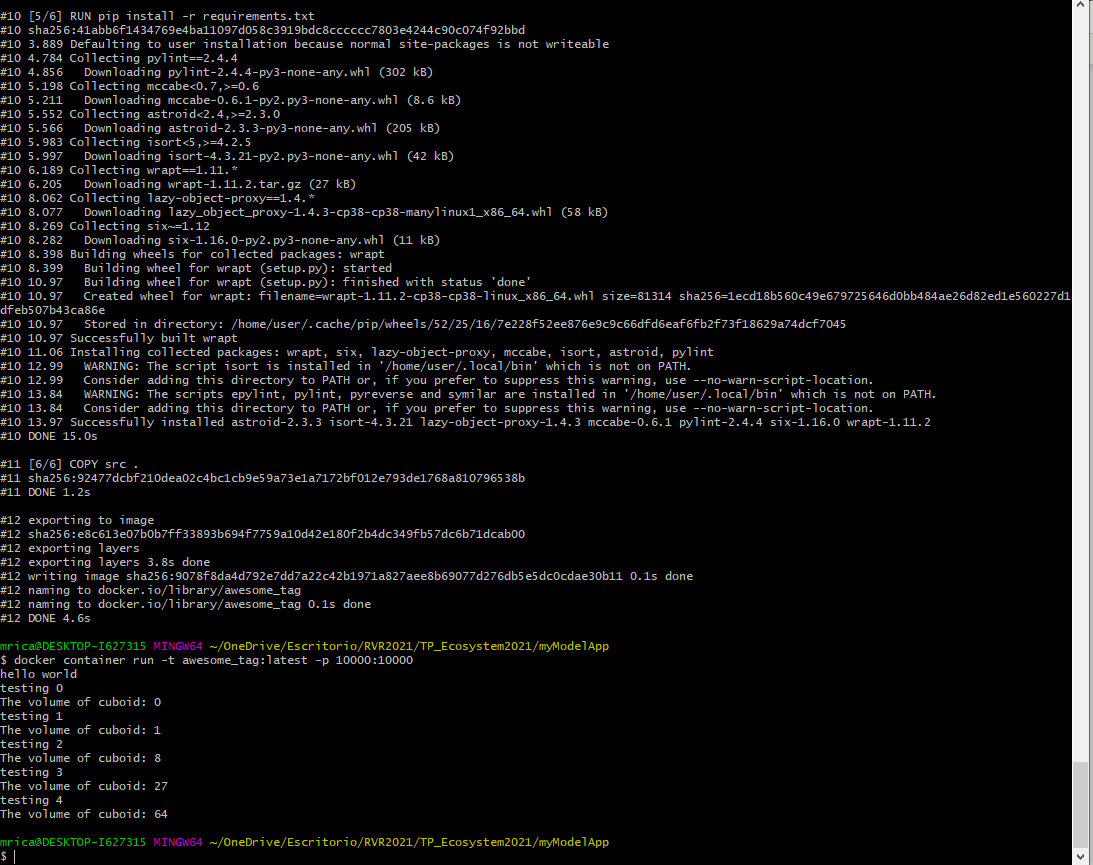
**Hello World Python Gitlab pipeline**<https://dev.to/realedwintorres/create-a-ci-cd-pipeline-in-minutes-with-gitlab-4ll4>  
<https://www.section.io/engineering-education/building-a-cicd-pipeline-using-gitlab/>

**Push image to dockerhub**

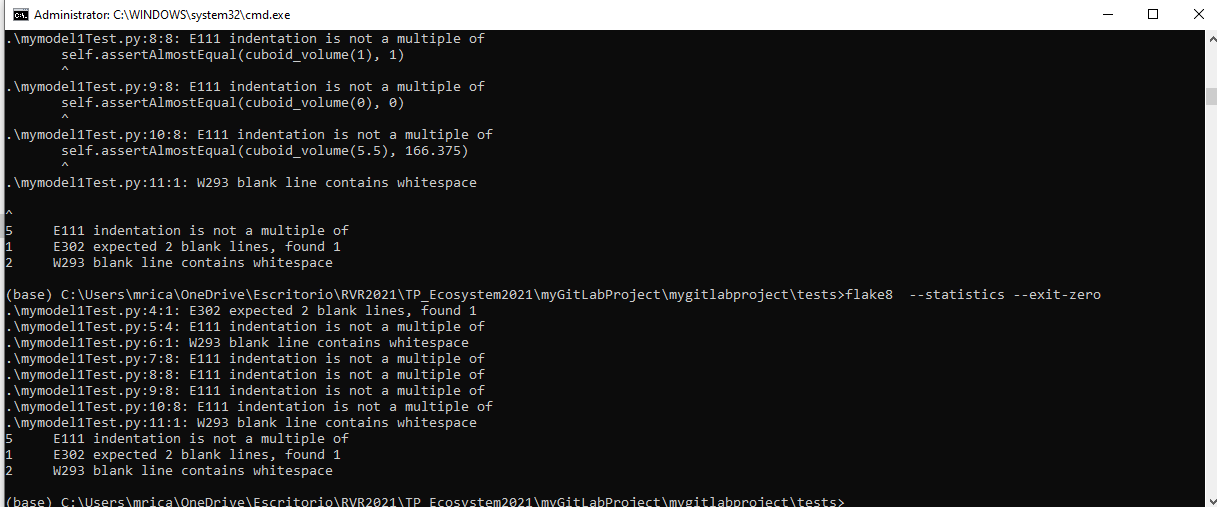
<https://www.onlinetutorialspoint.com/docker/how-to-push-docker-image-to-docker-hub.html#:~:text=1%20Create%20your%20docker%20hub%20account.%202%20Click,repositories%20list%2C%20there%20you%20can%20see%20your%20image>.



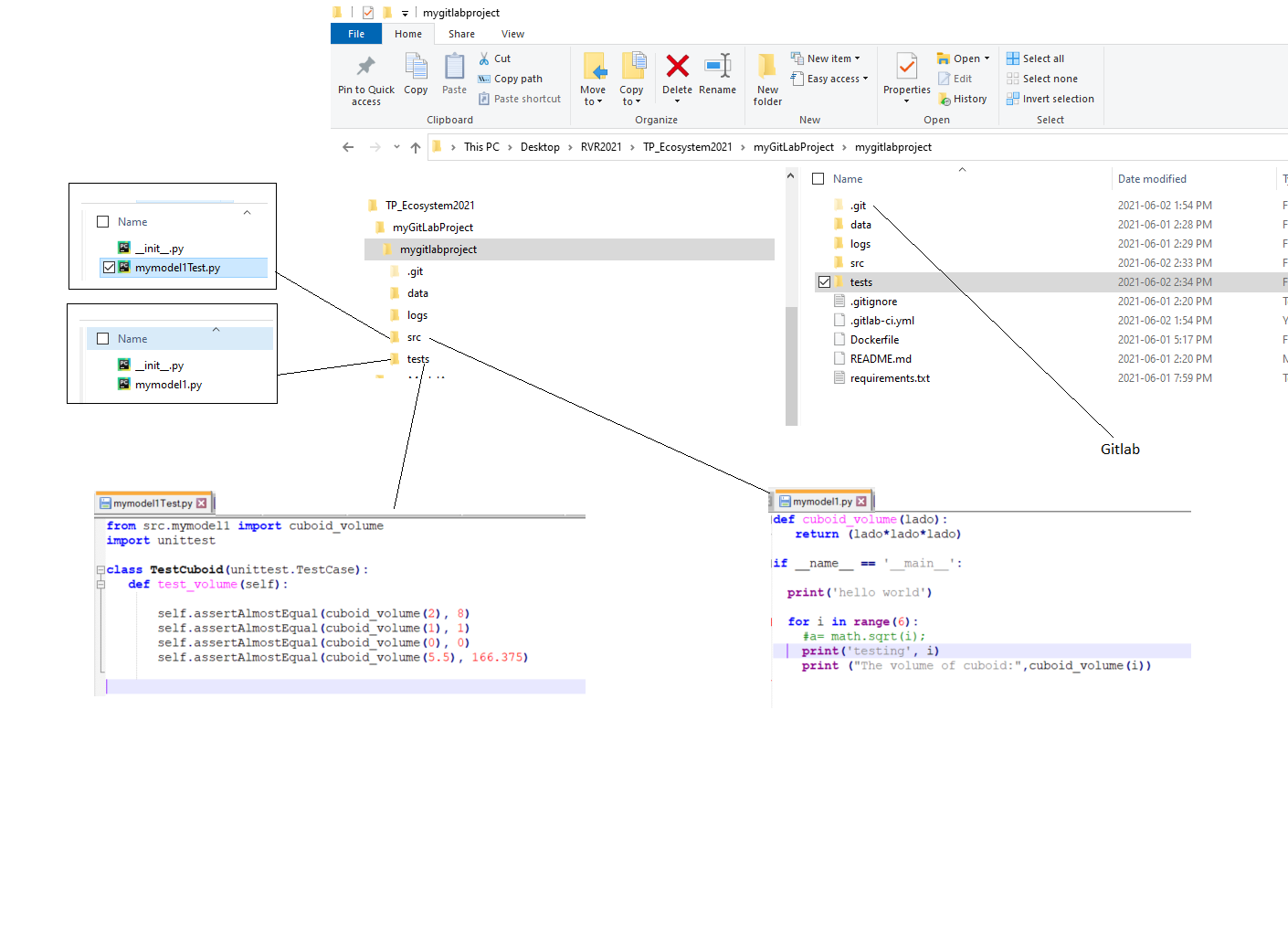




**LOCAL TEST:**

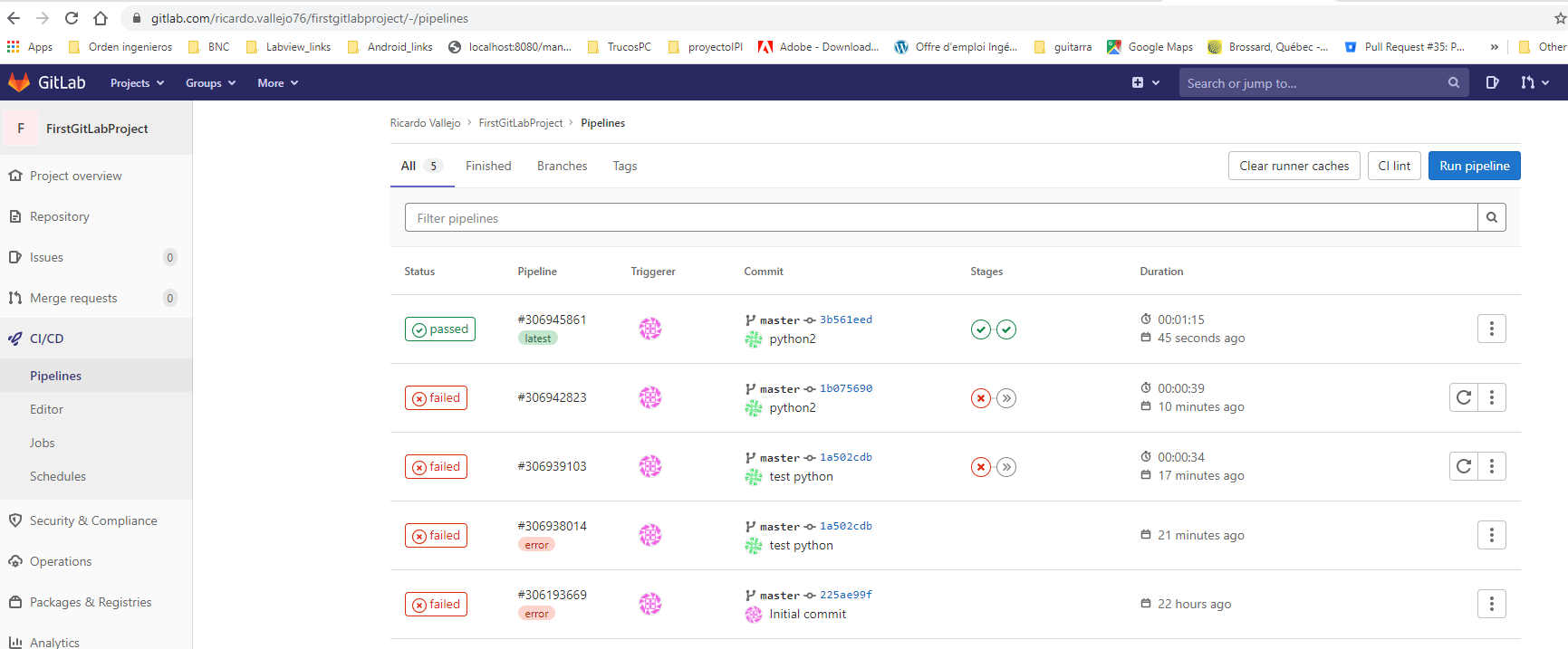


**PROJECT STRUCTURE**

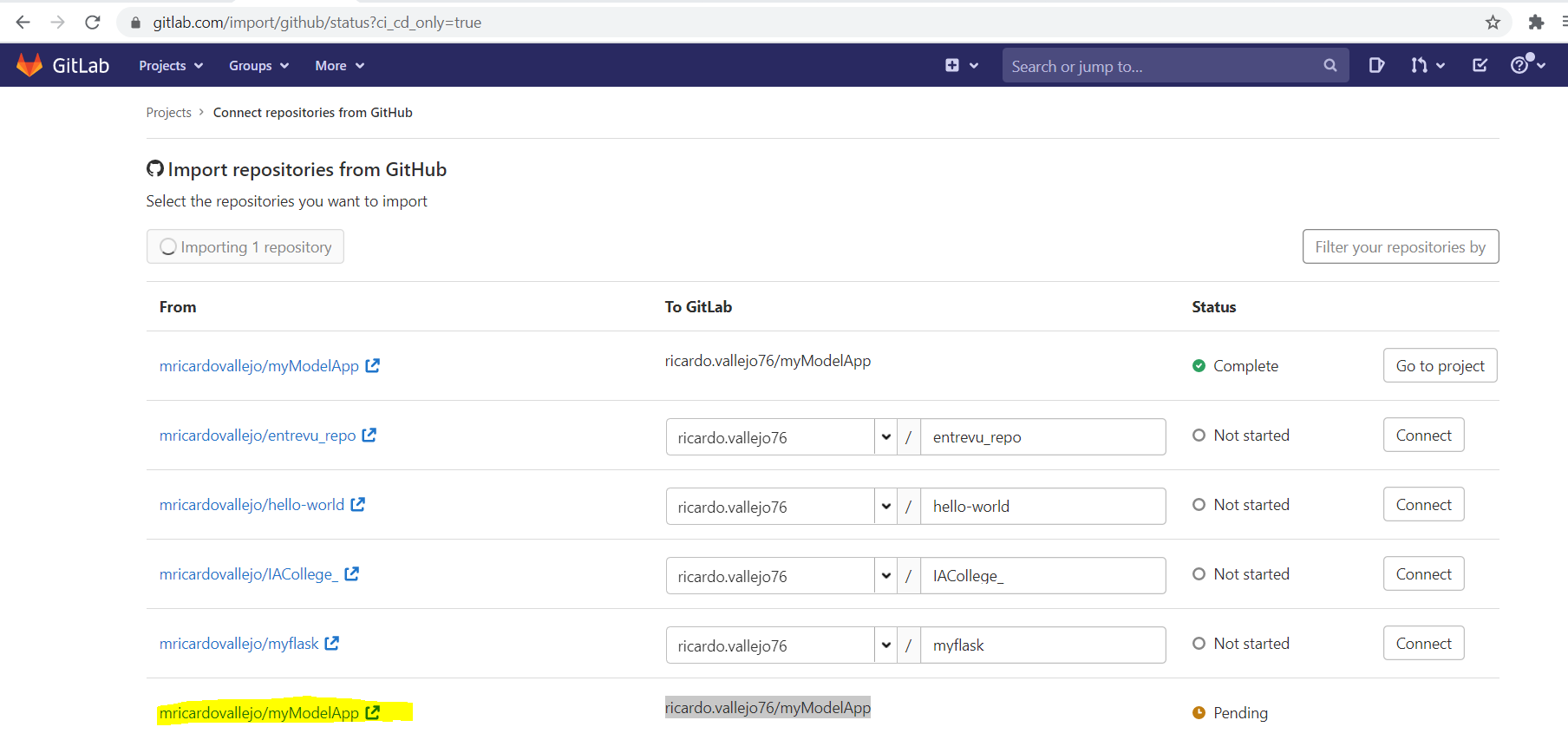
****

**.gitlab.ci.yml  
  
GitLab: understanding pipelines, stages, jobs and organising them efficiently**

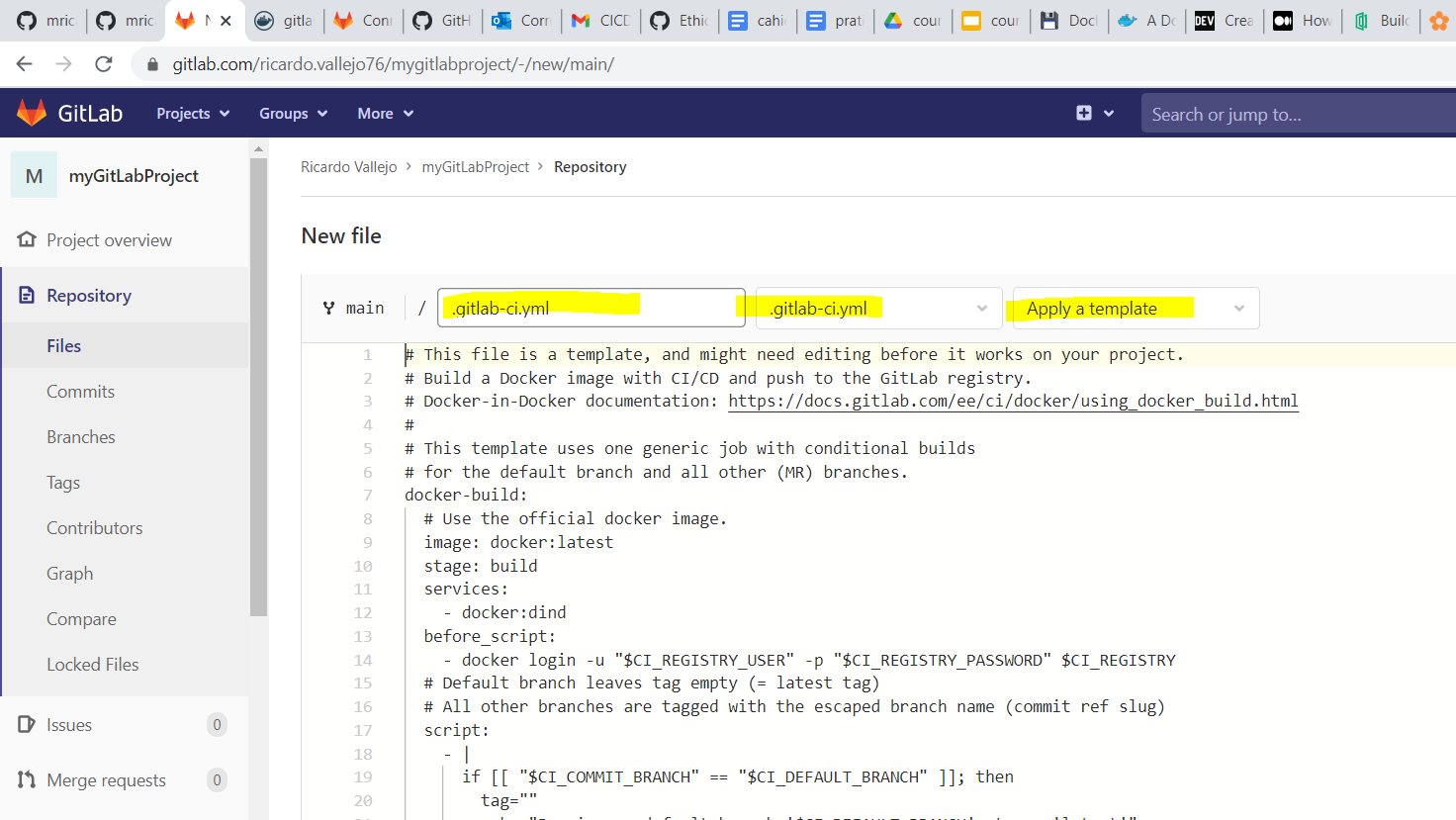
<https://medium.com/@ryzmen/gitlab-fast-pipelines-stages-jobs-c51c829b9aa1>



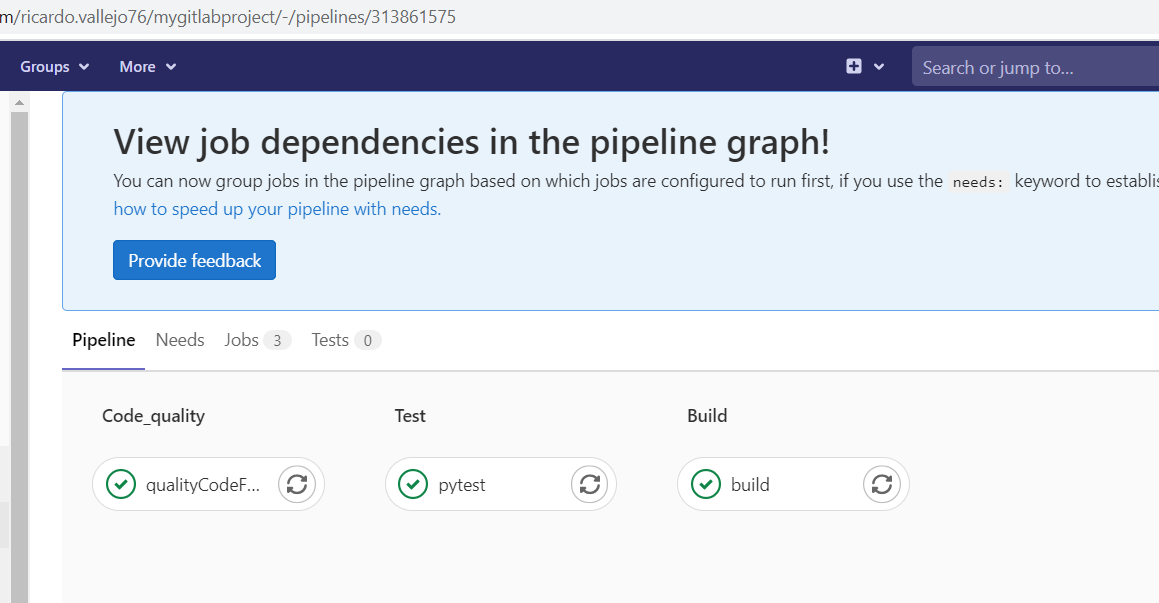
**Connecting to repos Github.**



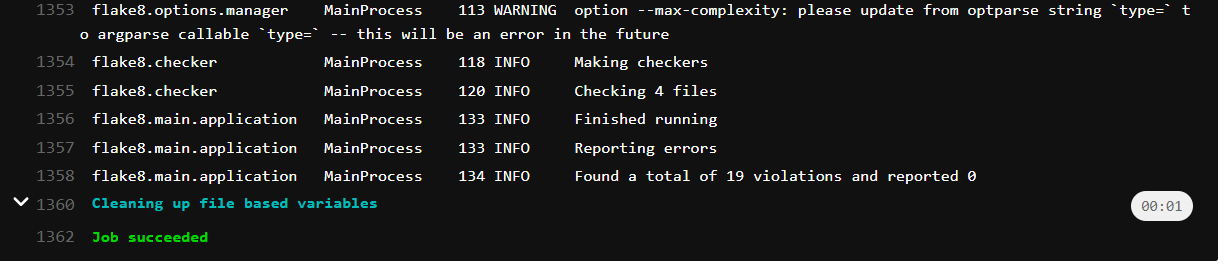
**Apply template docker to create .gitlab-ci.yml**

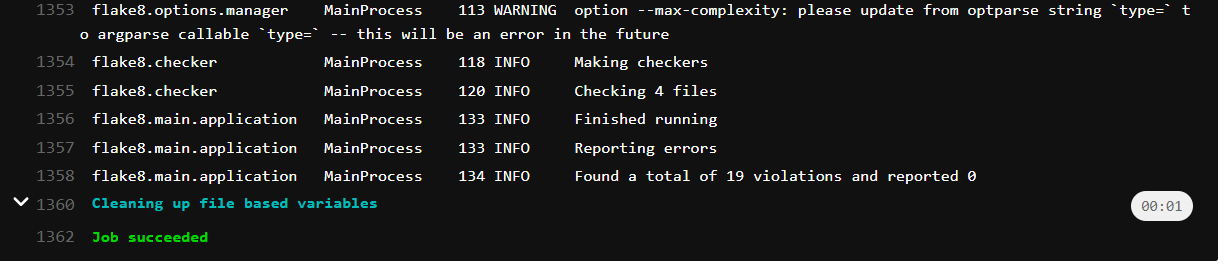


**PIPELINE FIRST RESULTS**

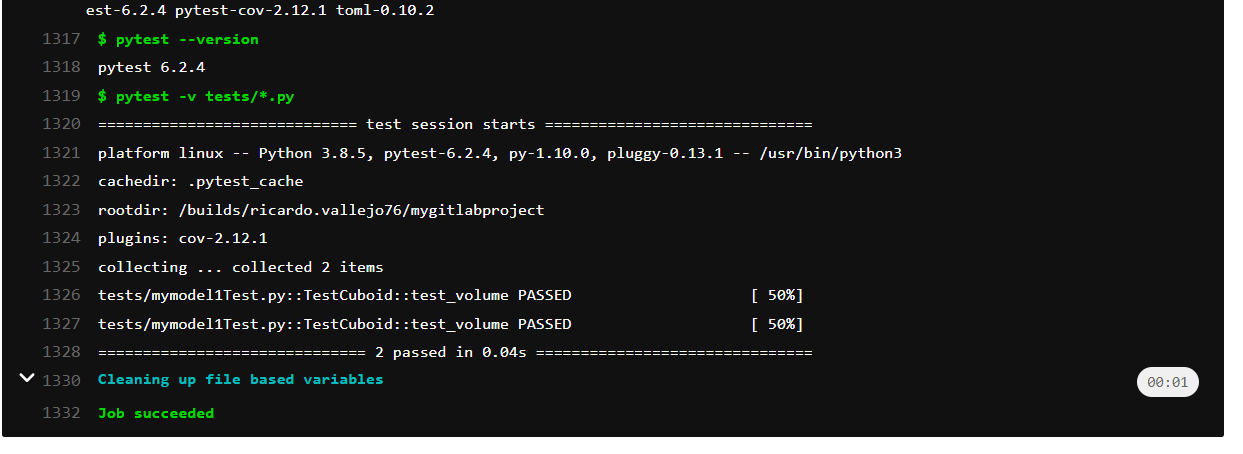


**1)**

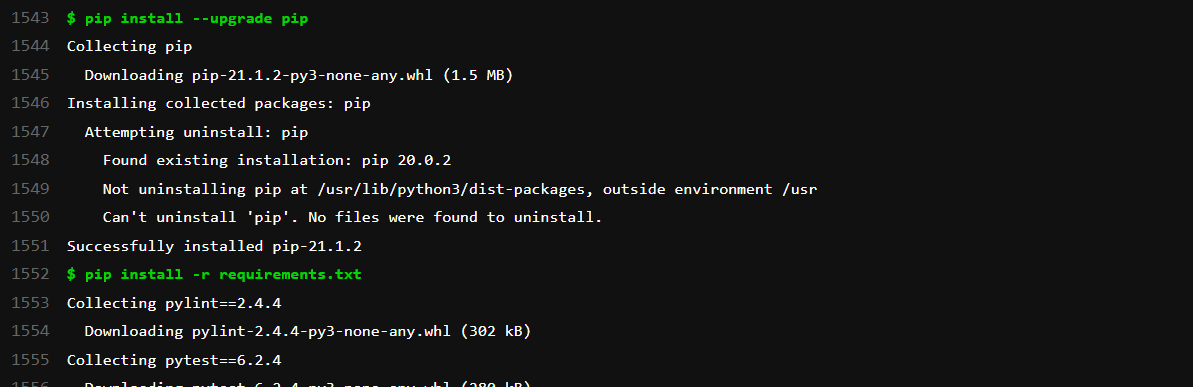


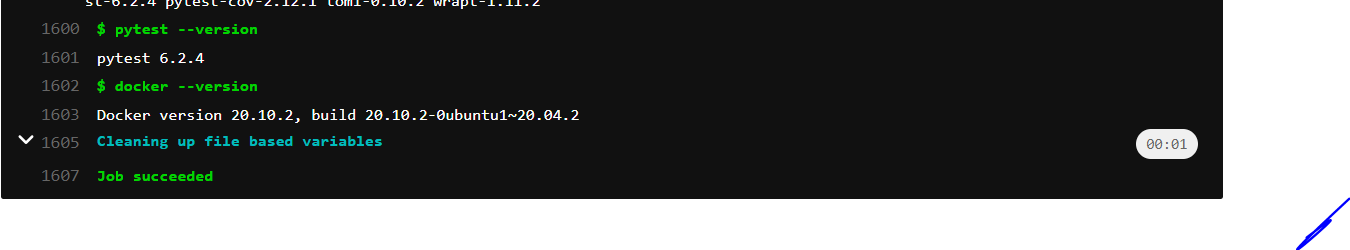


**2**

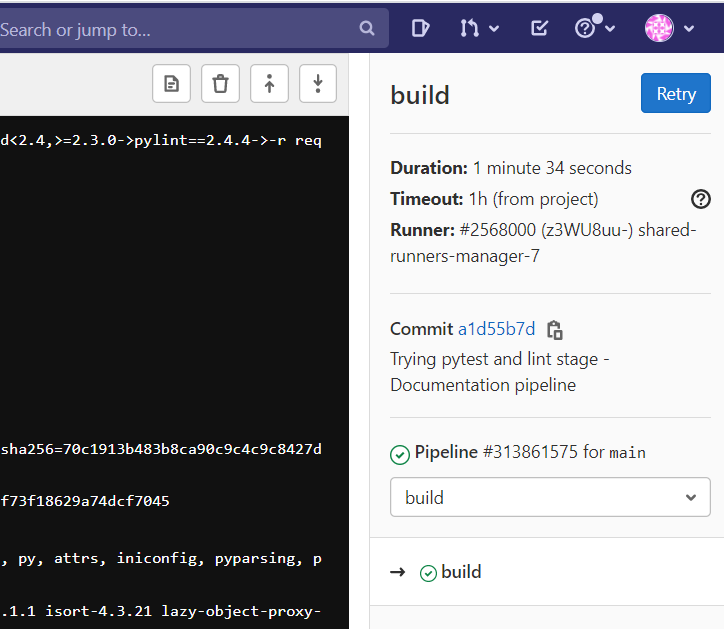


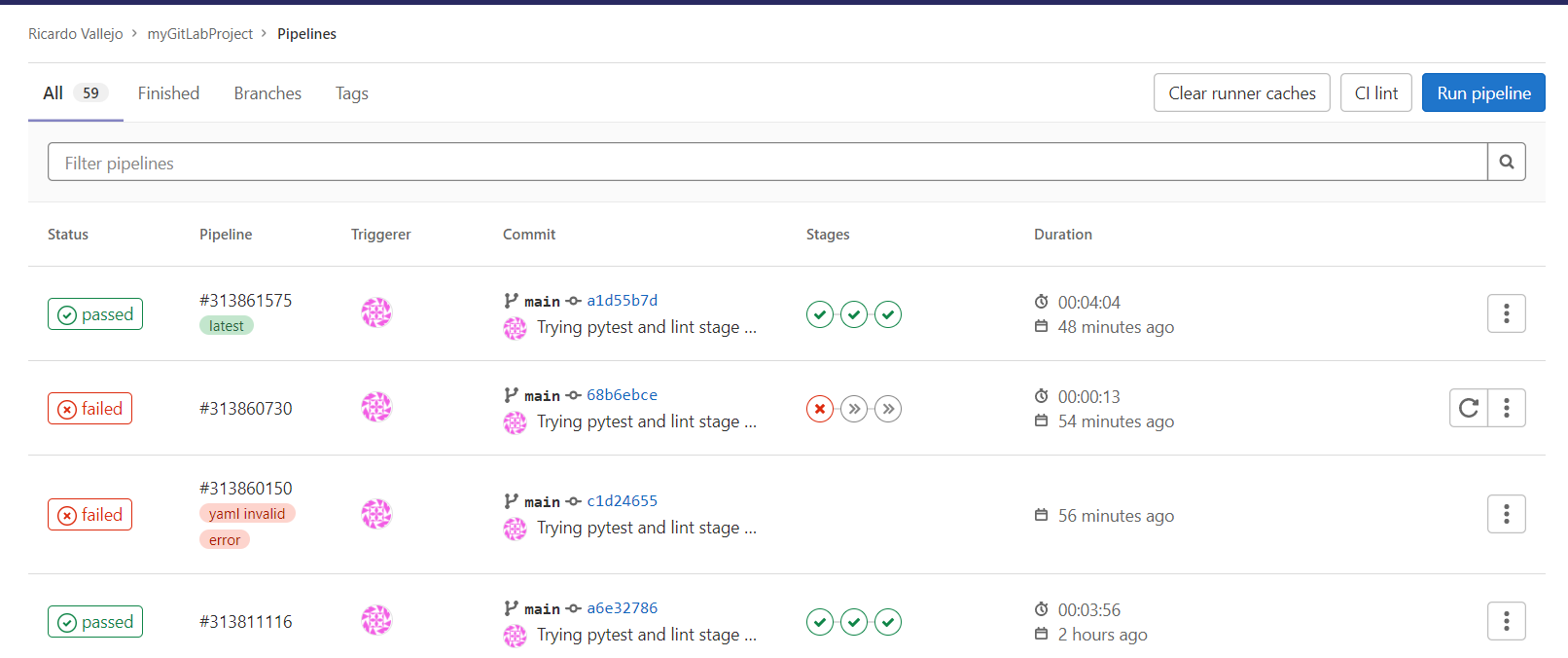
**3**

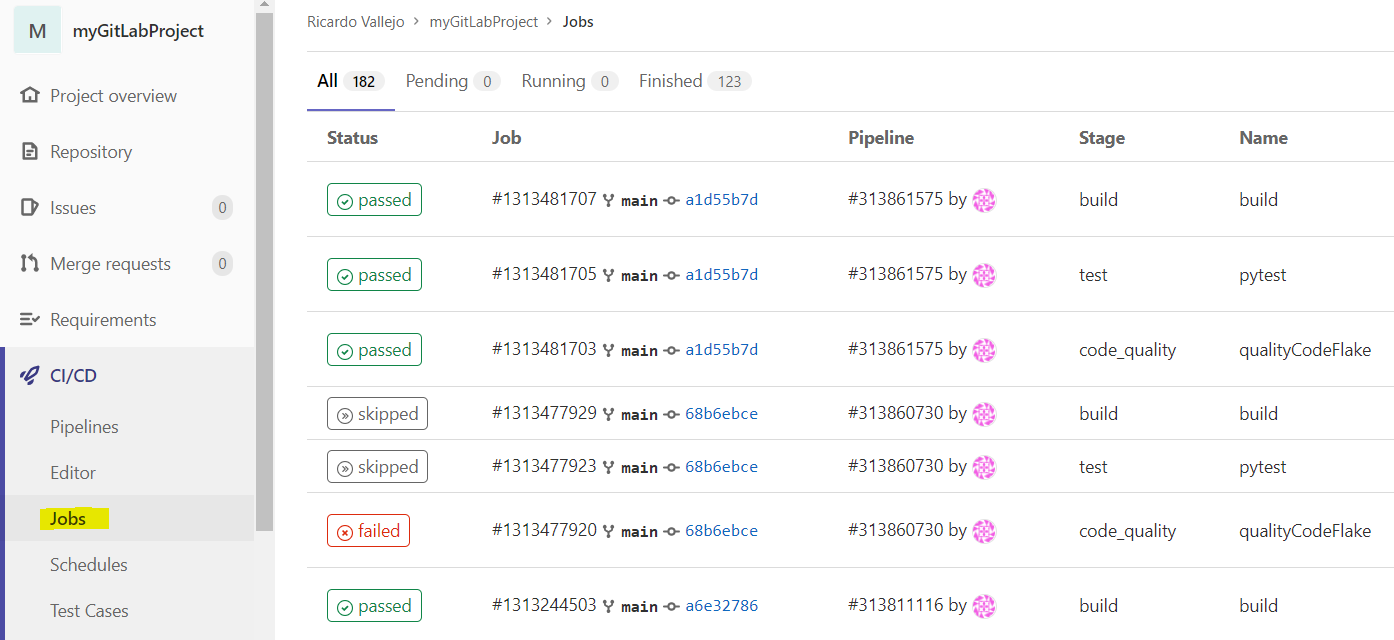


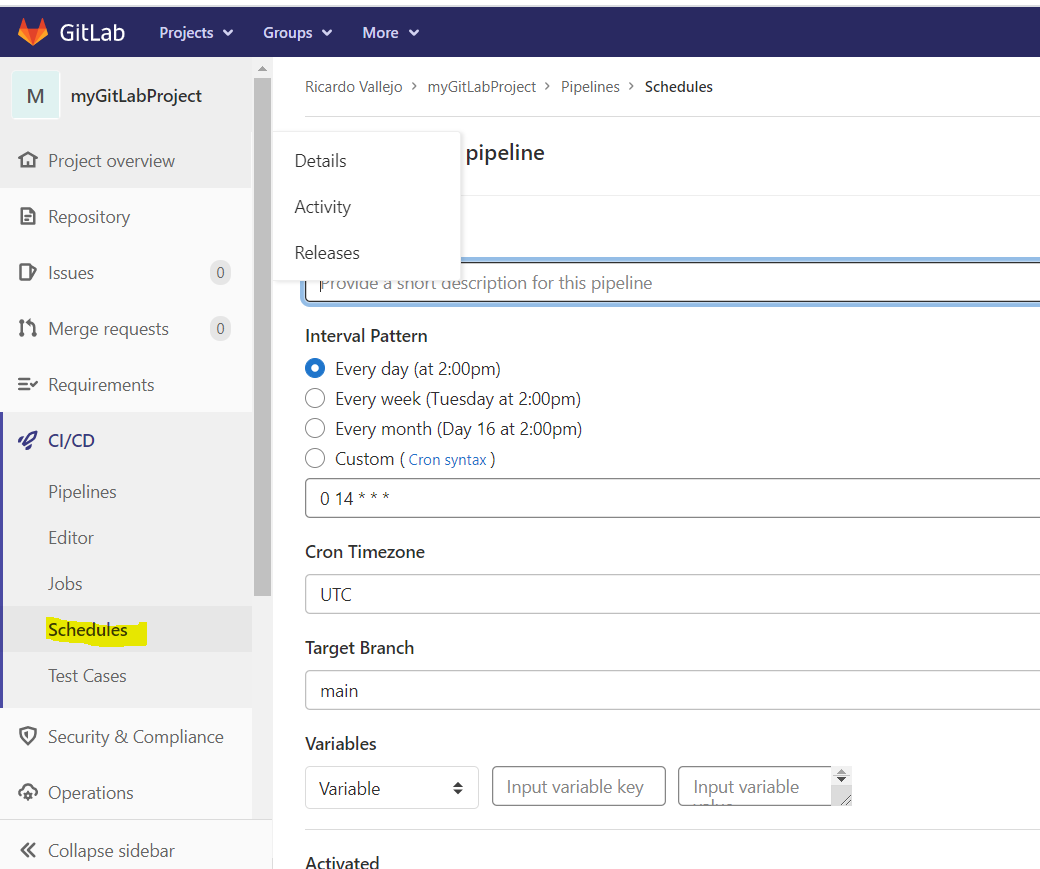


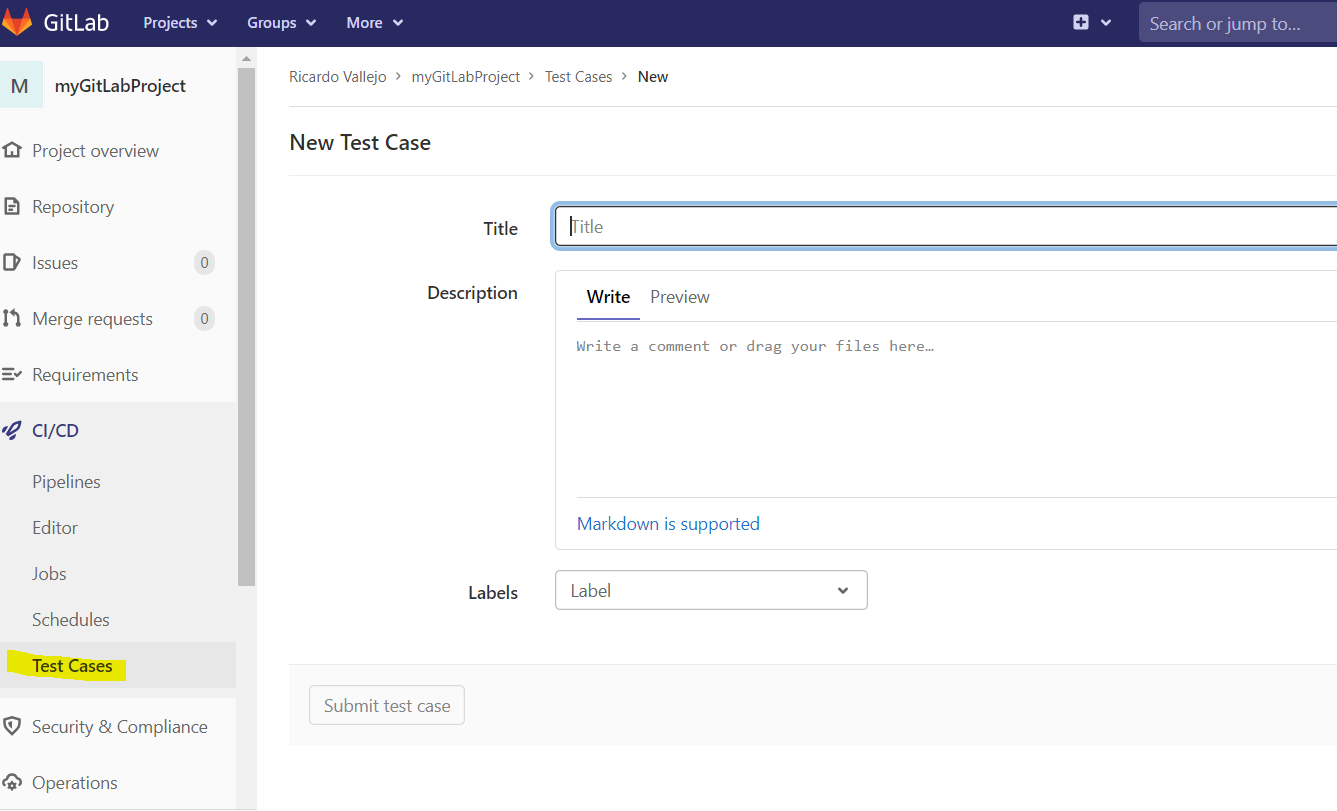
**Obersvability pipeline**



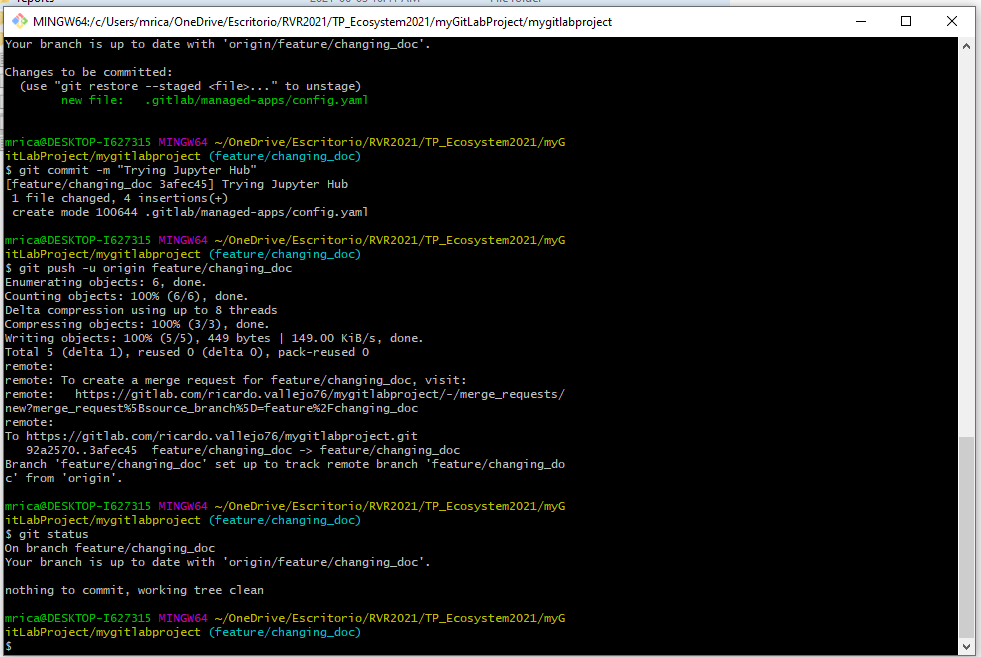


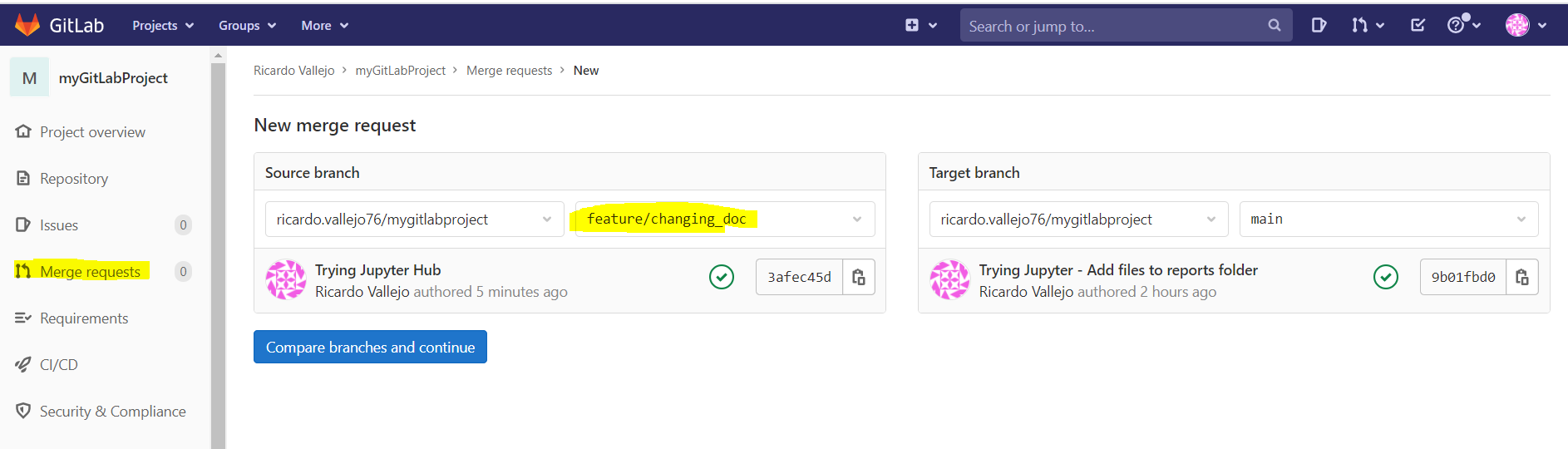


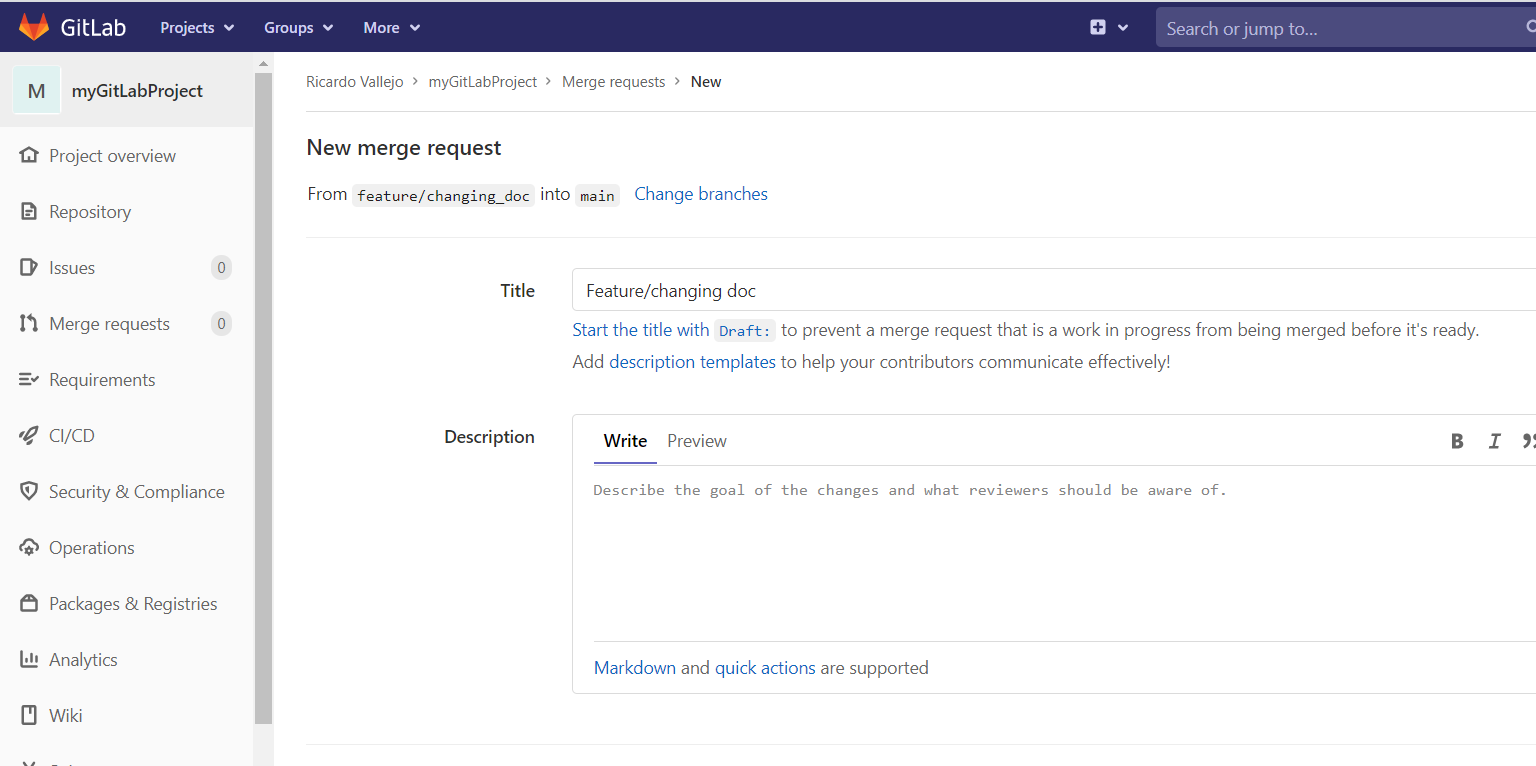


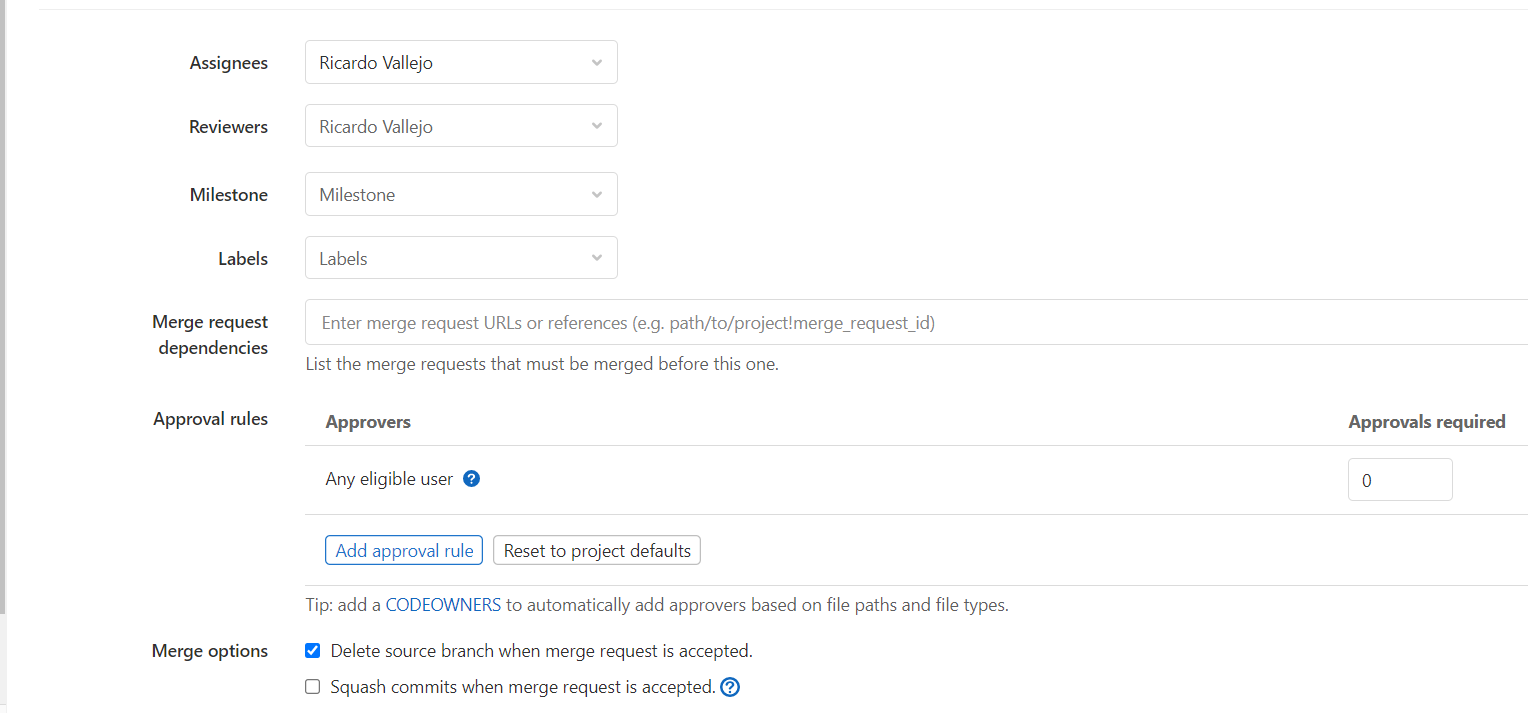


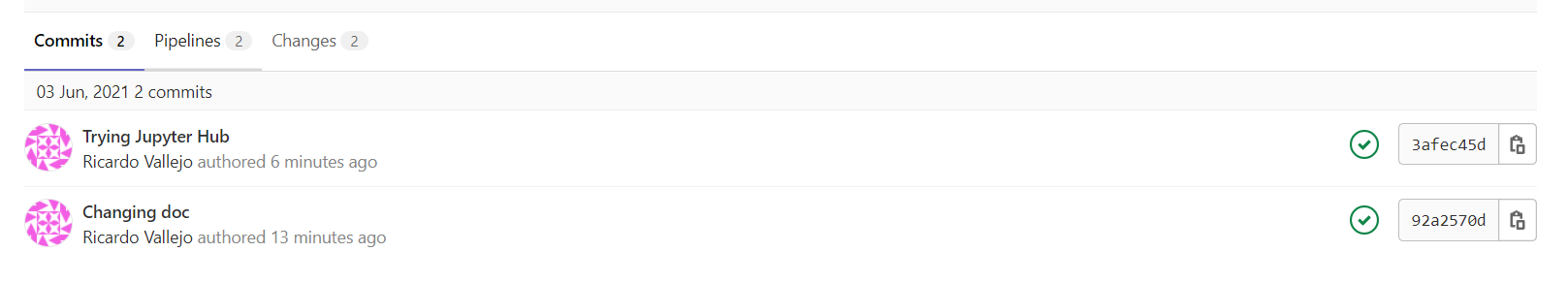
**Gitlab like github – Pull Request**

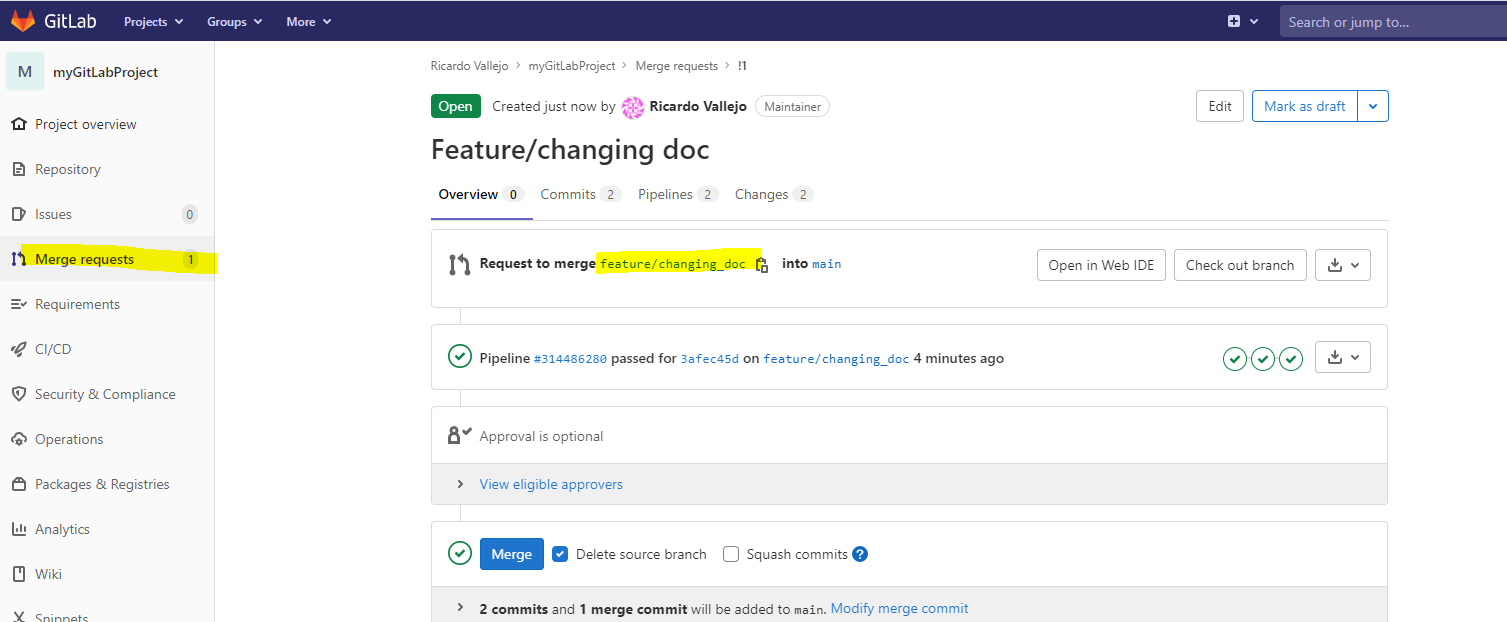












**TODO CODE REVIEW with another user**

**La PR es ten place (Merge Request)**

**Pas merger pour nous aider dans la demo.**