# TP 5 : Docker Engine, Jenkins, CI/CD

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#### Partie 1: CI

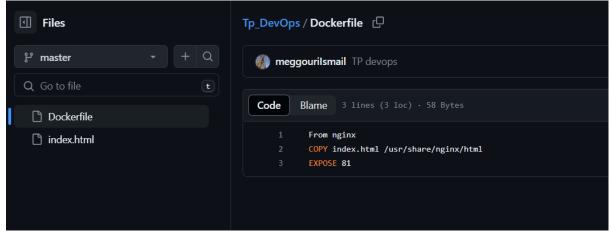
1. Jenkins installation:



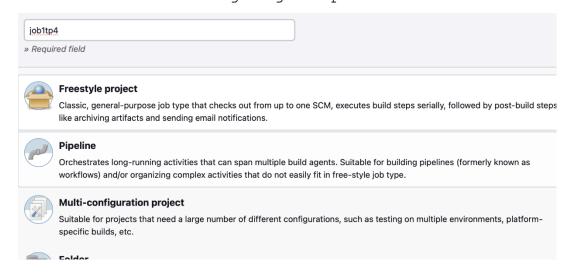
## Sign in to Jenkins

admin	
Password	
Keep me signed in	
Sign in	

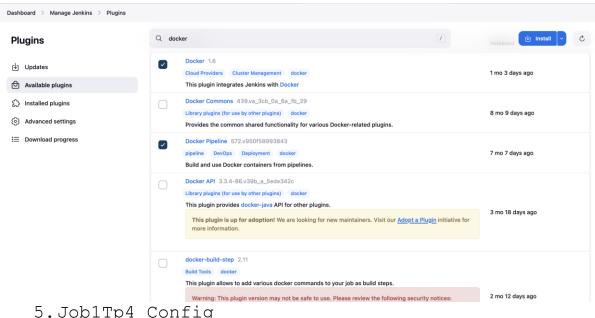
2. TP4 project structure, DockerFile & repo:



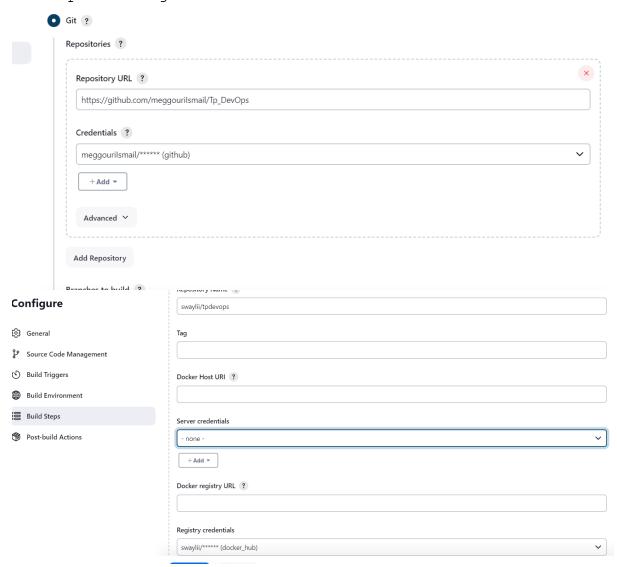
3.creation of the job  $\overline{\text{job}1\text{tp4}}$ 



# 4.add Docker Plugins



5. Job1Tp4 Config



# 6. rebuild job after a change in git:

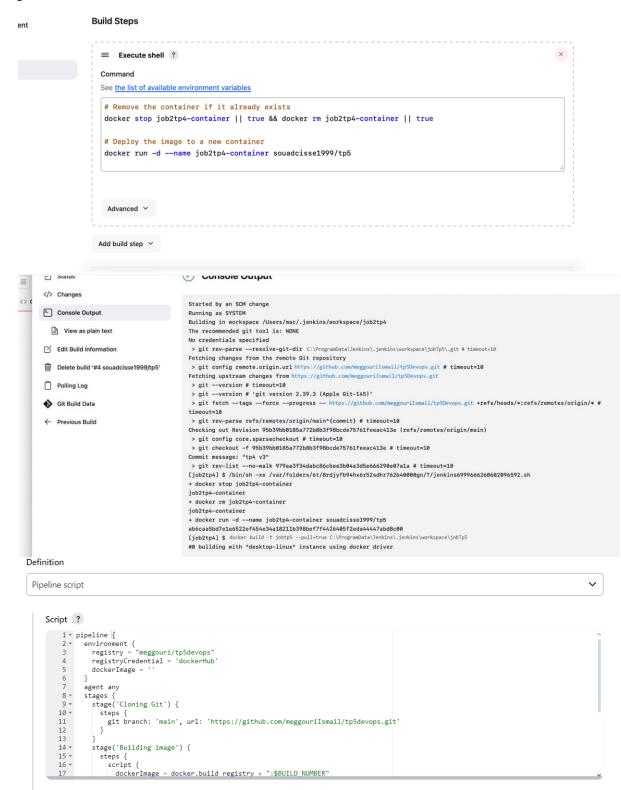
Triange levilale comes	of a famorist 2
Trigger builds remot	y (e.g., from scripts) ?
Build after other pro	cts are built ?
Build periodically (?	
GitHub hook trigger	or GITScm polling ?
Poll SCM ?	
Schedule ?	
****	
	nn "every minute" when you say "* * * * * "? Perhaps you meant "H * * * * " to poll once per hour
Would last have run a European Time.	Sunday, 24 March 2024 at 13:16:19 Western European Time; would next run at Sunday, 24 March 2024 at 13:16:19 W

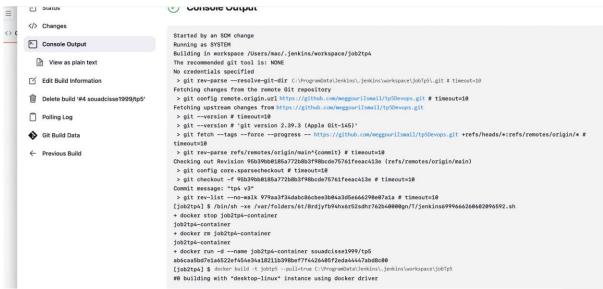
# 7. Build and push:

```
p5 > Console Output
  #7 naming to docker.io/souadcisse1999/tp5 done
  #7 DONE 0.0s
  \label{thm:linux} View\ build\ details:\ docker-desktop://dashboard/build/desktop-linux/kpwk5jd8x7j580putloqirfee
  What's Next?
    View a summary of image vulnerabilities and recommendations \Rightarrow docker scout quickview
  [tp5devops] $ docker push souadcisse1999/tp5
  Using default tag: latest
  The push refers to repository [docker.io/souadcisse1999/tp5]
  3220350414a7: Preparing
  fd31601f0be4: Preparing
  93b4c8c4ac05: Preparing
  b7df9f234b50: Preparing
  ab75a0b61bd1: Preparing
  c1b1bf2f95dc: Preparing
  4d99aab1eed4: Preparing
  a483da8ab3e9: Preparing
  c1b1bf2f95dc: Waiting
  4d99aab1eed4: Waiting
  a483da8ab3e9: Waiting
  b7df9f234b50: Layer already exists
  ab75a0b61bd1: Layer already exists
  93b4c8c4ac05: Layer already exists
  fd31601f0be4: Layer already exists
  3220350414a7: Layer already exists
  4d99aab1eed4: Layer already exists
  c1b1bf2f95dc: Layer already exists
  a483da8ab3e9: Layer already exists
  latest: digest: sha256:95fff6abcd9faa7ac9fd46a2077b2b967fc7485cac26bf28398a93ea109faff3 size: 1985
  Finished: SUCCESS
```

# Partie 2: CI/CD (continuous integration/continuous deployment)

Freestyle job 'job2tp4' with a shell script to deploy the image:

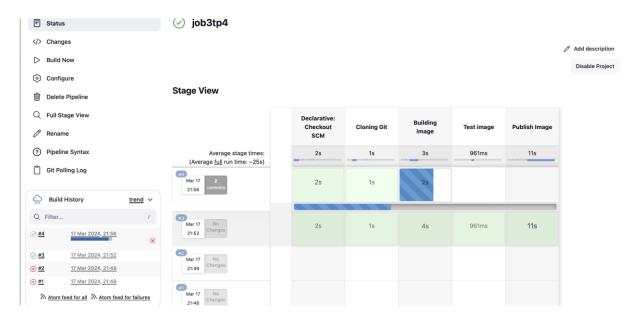




#### **Stage View**

	Declarative: Checkout SCM	Cloning Git	Building image	Test image	Publish Image
Average stage times: (Average <u>full</u> run time: ~25s)	2s	1s	4s	961ms	11s
#3 Mar 17 No Changes	2s	1s	4s	961ms	11s
Mar 17 No Changes					
Mar 17 21:48 No Changes					

#### Changing index.html file:



### Stage View



Declarative: Checkout SCM	Cloning Git	Building image	Test image	Publish Image	Deploy image
2s	1s	4s	944ms	12s	843ms
2s	1s	4s	900ms	11s	1s