

CI/CD



DEVOPS





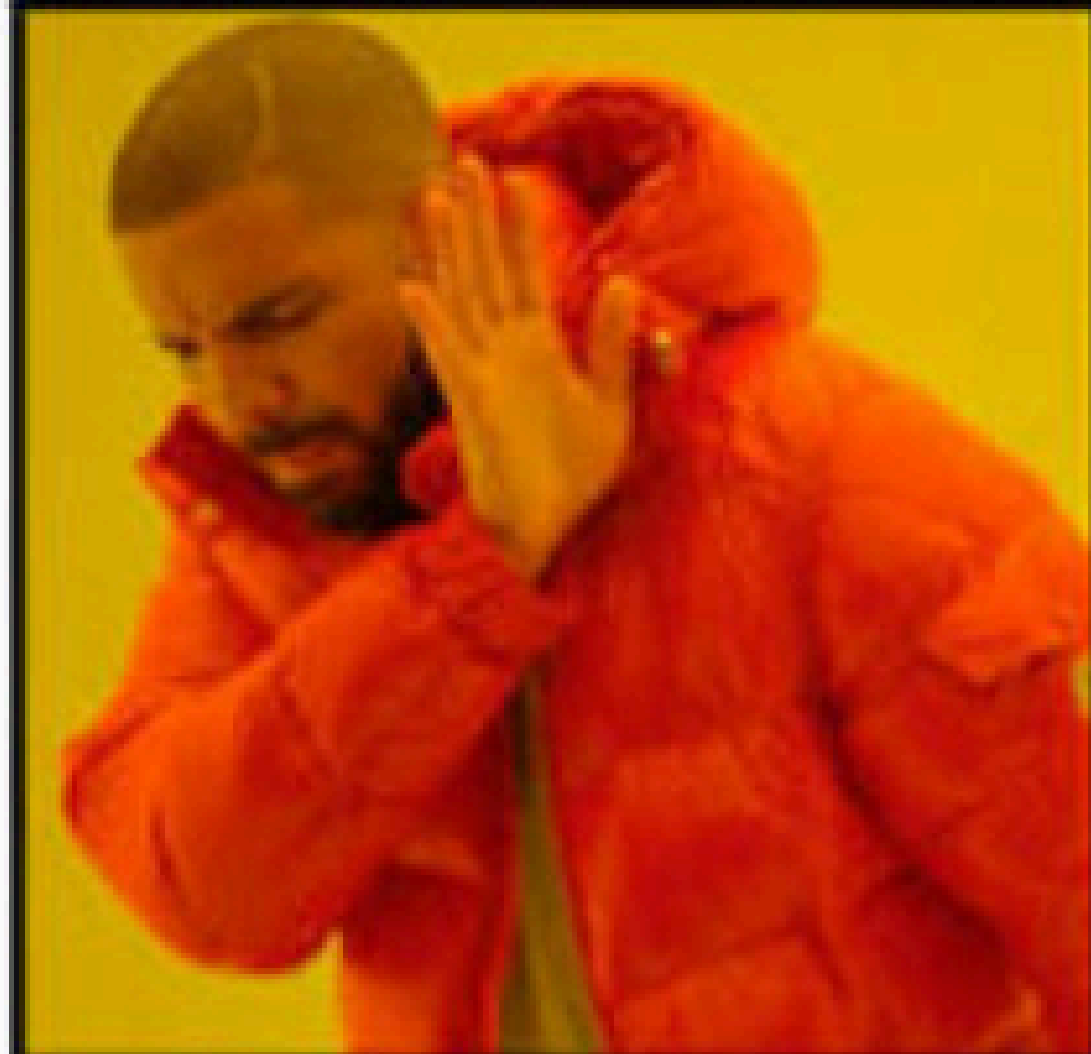
c quoi le
devops ?



**Comment réaliser
un projet ?**



on code, on execute,
et hop, le projet est
fait !



**FAIRE ÇA
SUR LA PROD**



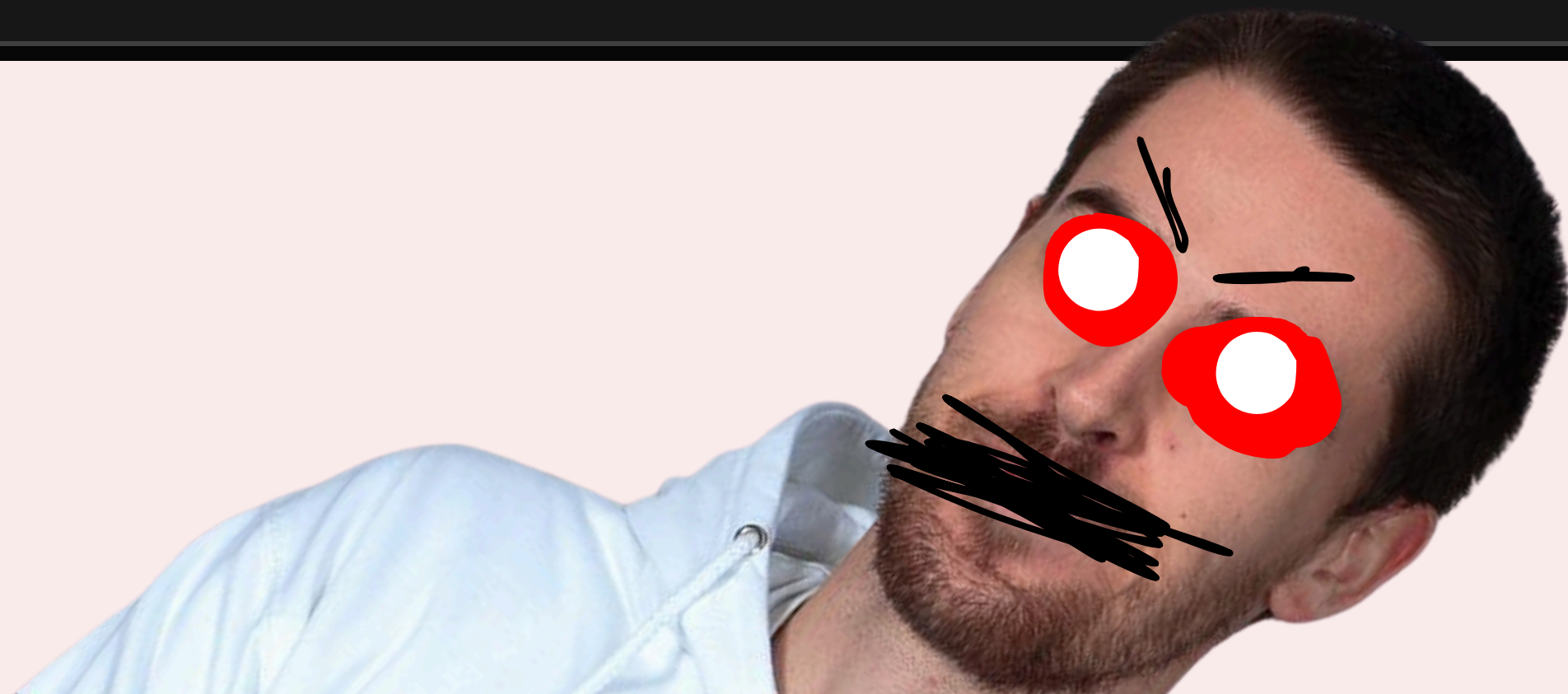
**FAIRE ÇA À LA
MAISON POUR UN
SCRIPT QUI RÉCUPÈRE
LES JEUX EPIC GAMES
GRATUIT AUTOMATIQUEMNT**

~~+6700~~ 0

ADHÉRENTS

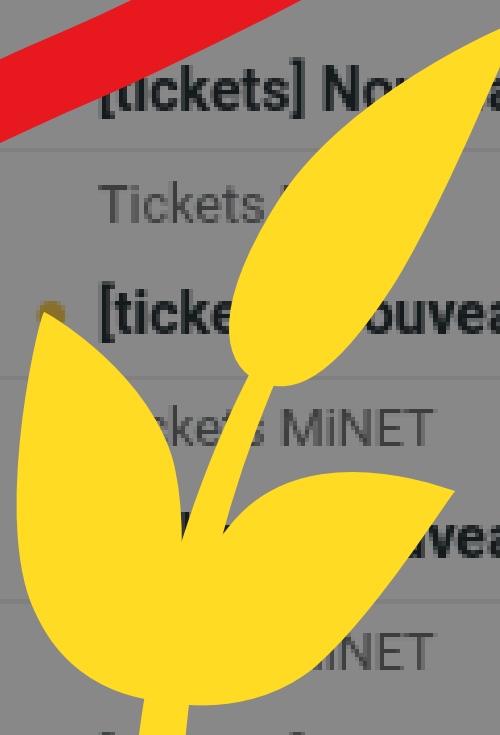
1510 Gb/s

DE DÉBIT



Dim	Ticket#	Ven	en filaire ne march...
	Tickets MiNET	Dim 20:19	• [tickets] Nouveau Ticket (Les problèmes) [Ticket#904...
	Tickets MiNET	Ven 10:51	• [tickets] Nouveau Ticket (Connexion filaire ne march...
	Tickets MiNET	2026-04-28 14:05	• [tickets] Nouveau Ticket (Hosting Latence I/O disque ...
	Tickets MiNET	2026-04-21 16:11	• [tickets] Nouveau Ticket (Erreur de DNS à Déclic) [Tic...
	Tickets MiNET	2026-04-19 01:09	• [tickets] Nouveau Ticket (dso je spam encore. Oui je t...
	Tickets MiNET	2026-04-16 14:06	• [tickets] Nouveau Ticket (Internet down u7) [Ticket#9...
	Tickets MiNET	2026-04-16 12:45	• [tickets] Nouveau Ticket (Plus de connexion filaire) [...
	Tickets MiNET	2026-04-16 09:00	• [tickets] Nouveau Ticket (Problème de connexion LA...
	Tickets MiNET	2026-04-15 23:29	• [tickets] Nouveau Ticket (Feedback Form) [Ticket#90...
	Tickets MiNET	2026-04-15 23:19	

DEVOPS





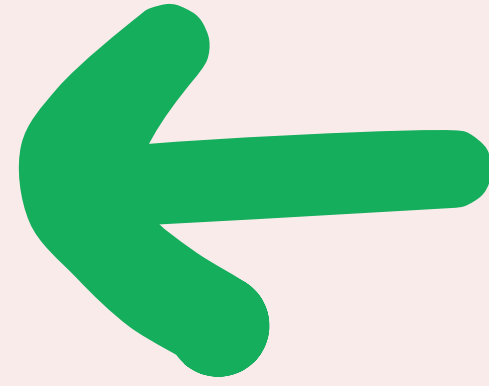
git

oe le code

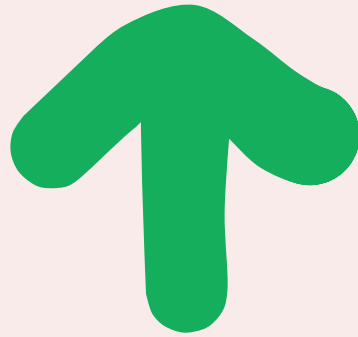




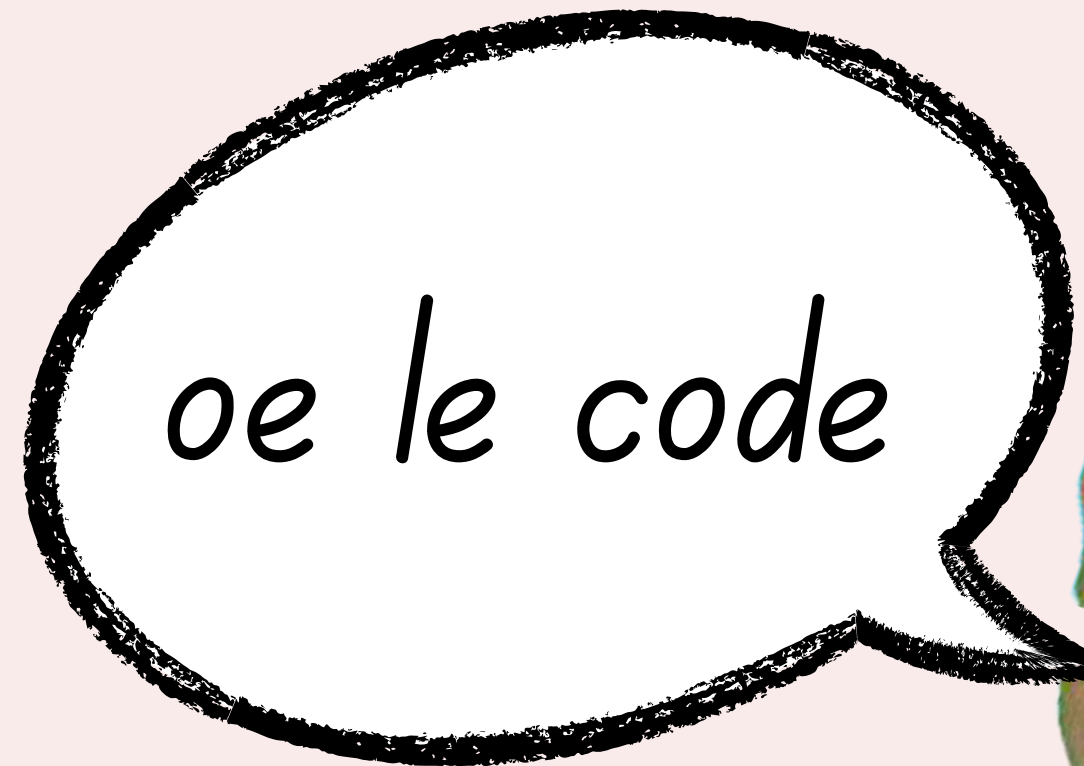
git



GitHub



GitLab






Your work

- Home
- Projects
- Groups
- Work items
- Merge requests
- To-Do List
- Milestones
- Snippets
- Activity

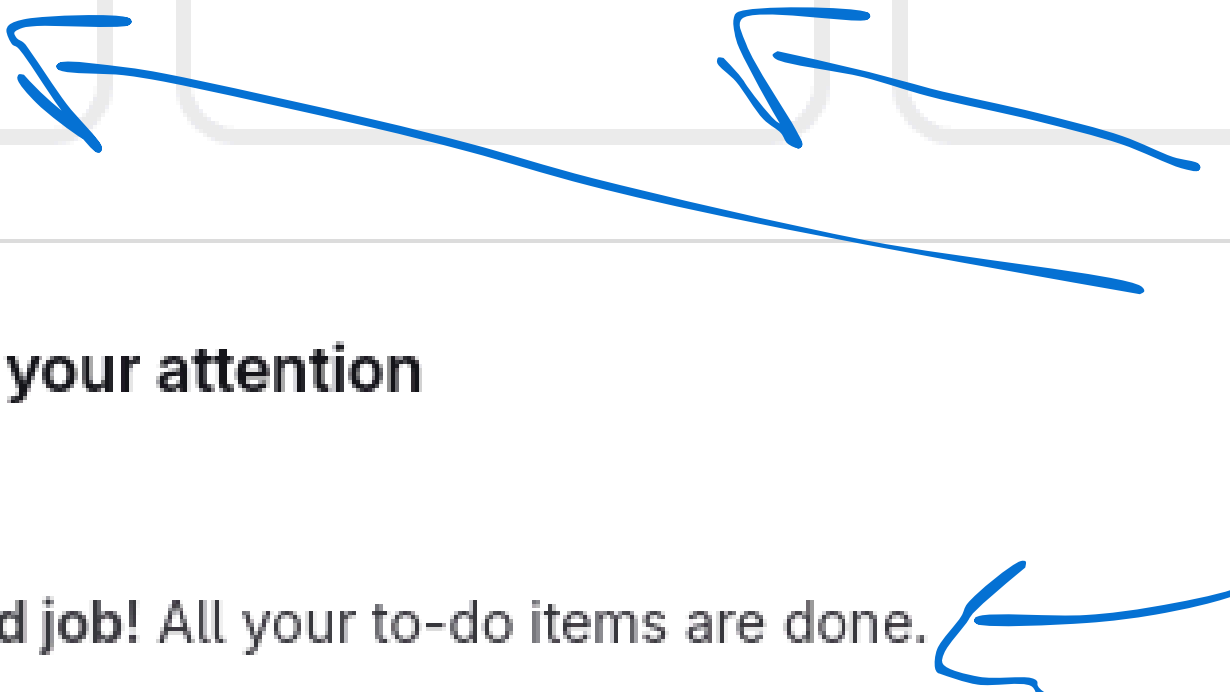
Your work / Home

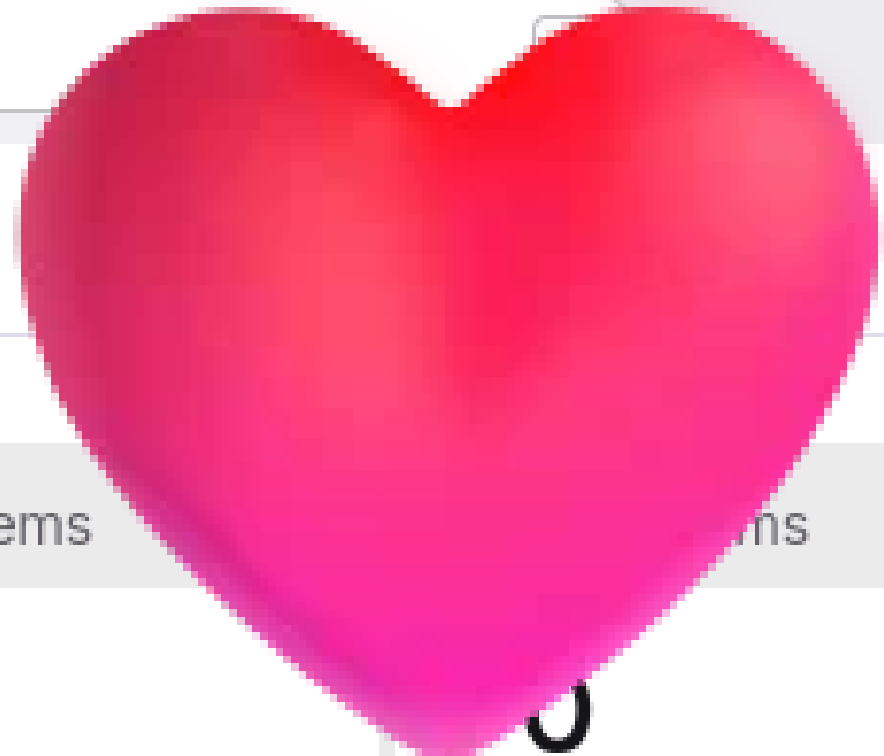
Merge requests 0 Waiting for your review Just now	Merge requests 0 Assigned to you Just now	Work items 0 Assigned to you Just now	Work items 0 Authored by you Just now
--	--	--	--

Items that need your attention

 Good job! All your to-do items are done.

[All to-do items](#)






Merci le Dev Ops

- Your work
- Home
- Projects
- Groups
- Work items
- Merge requests
- To-Do List
- Milestones
- Snippets
- Activity

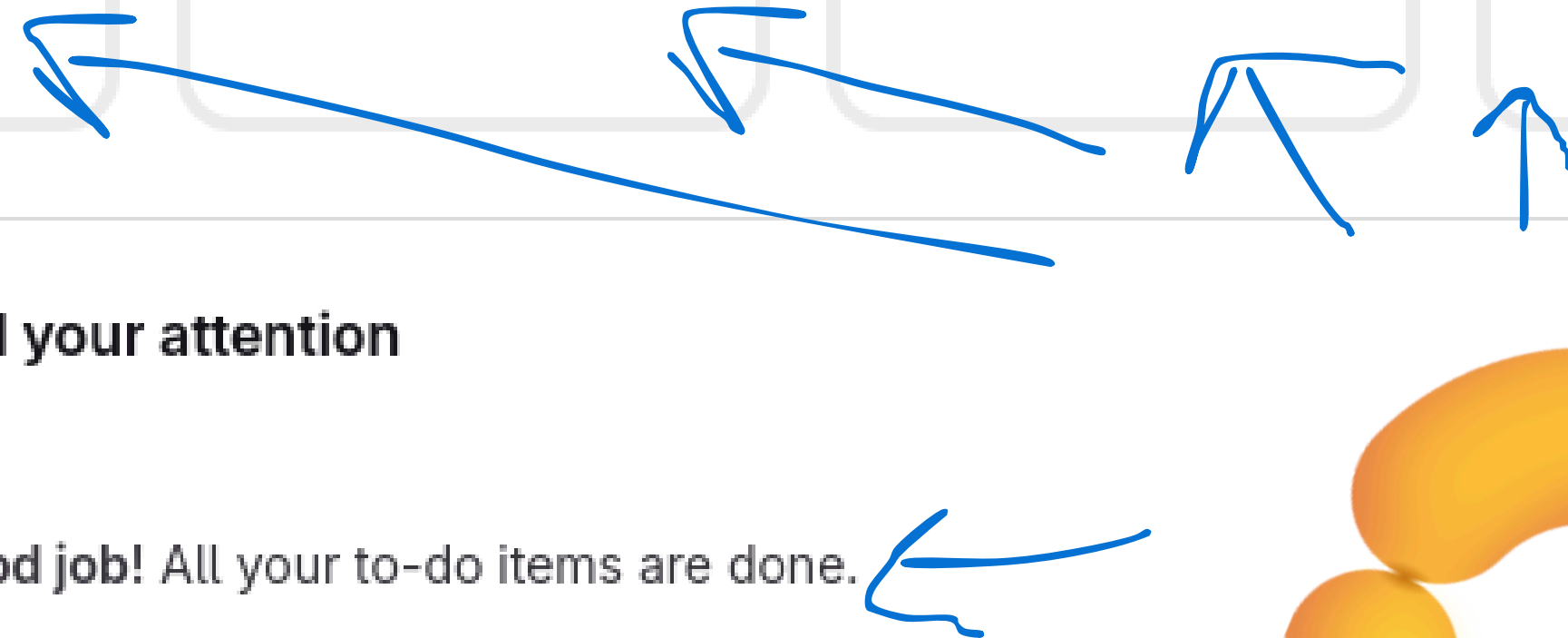
Your work / Home

Merge requests	Merge requests	Work items	Work items
0	0	0	0
Waiting for your review Just now	Assigned to you Just now	Assigned to you Just now	Authored by you Just now

Items that need your attention

 Good job! All your to-do items are done.

[All to-do items](#)





Server Not Found

Firefox can't connect to the server at **gitlabint.priv.minet.net**

What can you do about it?

Try connecting on a different device. Check your modem or router. Disconnect and reconnect to Wi-Fi.

[Learn more...](#)

Try Again

oh non il faut le VPN...



Server Not Found

Firefox can't connect to the server at **gitlabint.priv.minet.net**

What can you do?

Try connecting to the server using your modem or router.
Disconnect from the network and try again.



Try Again

chesh

bah ouiiiiii faut
y aller mtn





ah
y
iiiiii faut
atn

BAHN NON





BAHN NON

wah wiiiiii faut

y a... t'n

LEASHTIESTS

iiii faut

y



LINT



oups j'avais pas vu

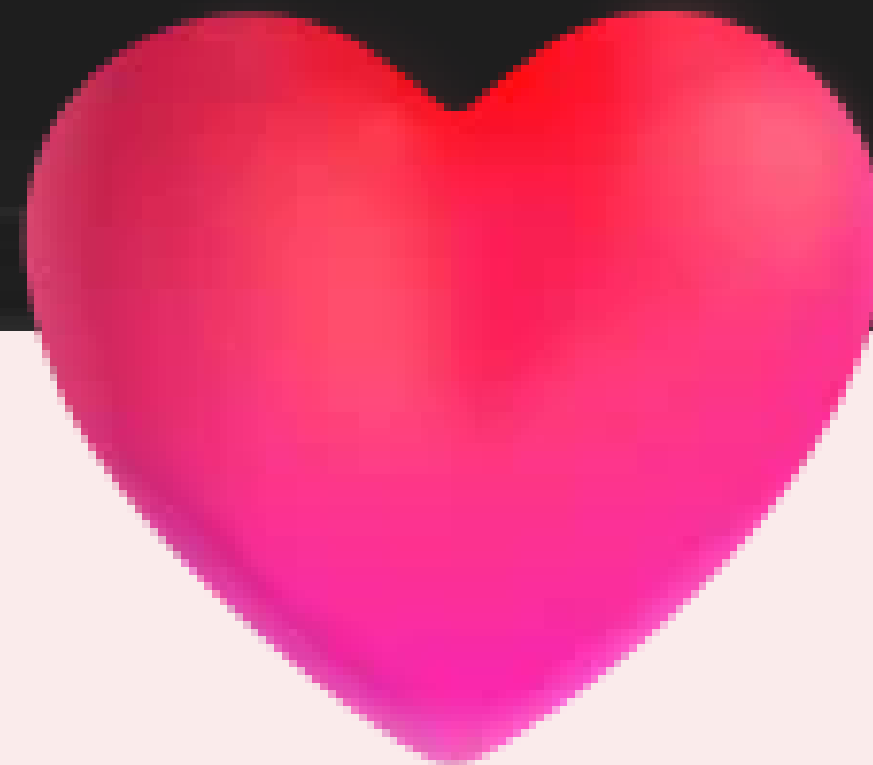
main.py 3 X

```
1 import numpy
2 import math
3 import time
4
5 print("Hello")
```

Trailing whitespace Pylint(C0383:trailing-whitespace)

[View Problem \(Alt+F8\)](#) [Quick Fix... \(Ctrl+\)](#)

Merci le linter



UNIT TEST

```
1 def somme(a, b):  
2     return a + b  
3  
4 def test_somme():  
5     assert(somme(1, 1) == 2)  
6     assert(somme(8, 4) == 12)  
7     assert(somme(-18, 1) == -17)  
8     assert(somme(-16, -6) == -22)  
9     assert(somme(-67676767, 67) == -67676700)  
10
```

*ouf, j'ai eu peur de m'etre trompe
dans l'implementation de somme*



hyrro qui fume

Merci les tests unitaires





LE BUILD



**Rendre le code source
exécutable dans son
environnement**

CONTAINERS



CONTAINERS



bon ca suffit mtn
on met en prod



TOUJOURS

...ca suffit
...mt
...met en prod

PAS



couillon

TECHNOLOGIES

DESIGN

couillon



TECHNOLOGIES

DESTESTS

couillon



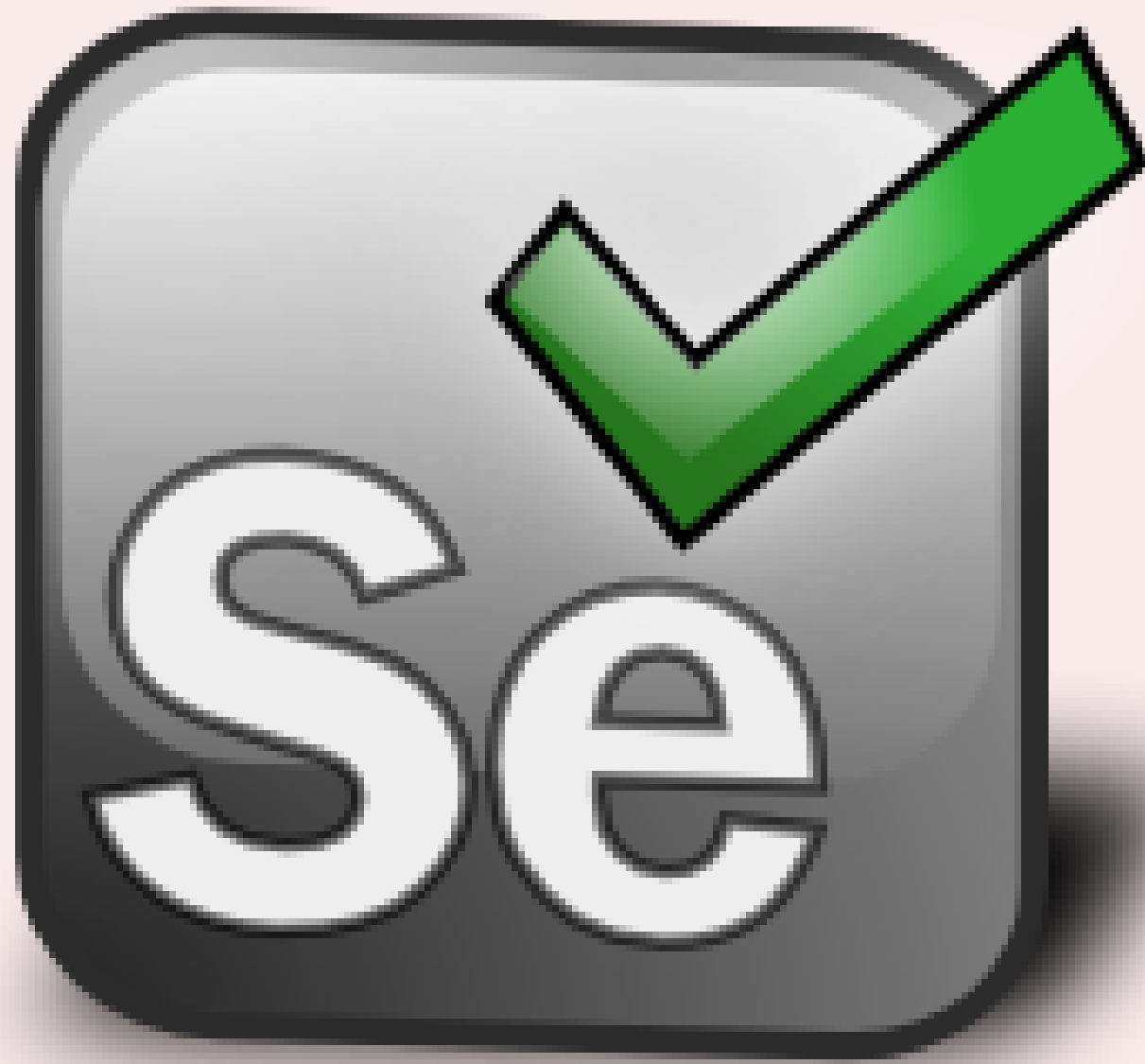
TESTS FONCTIONNELS



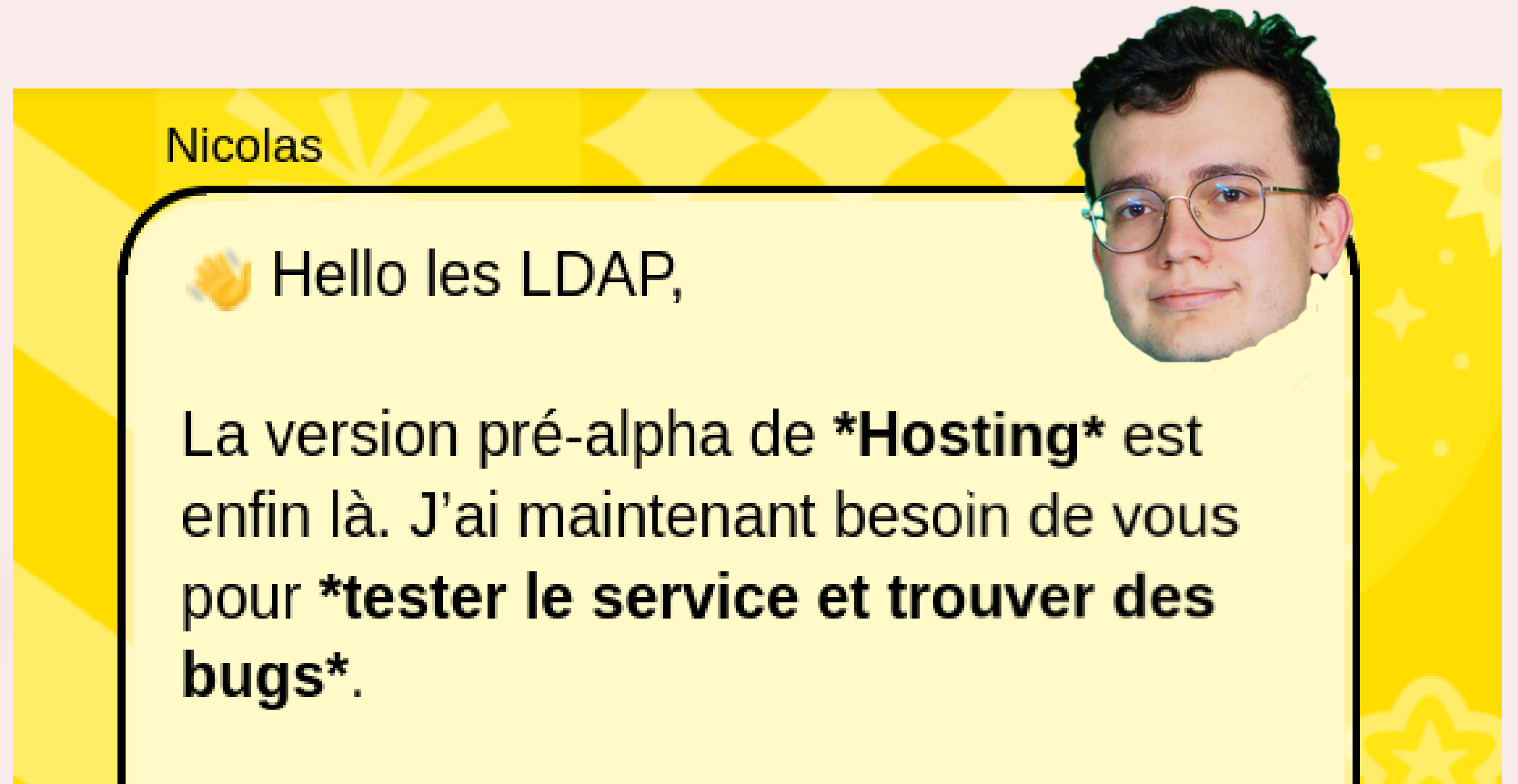
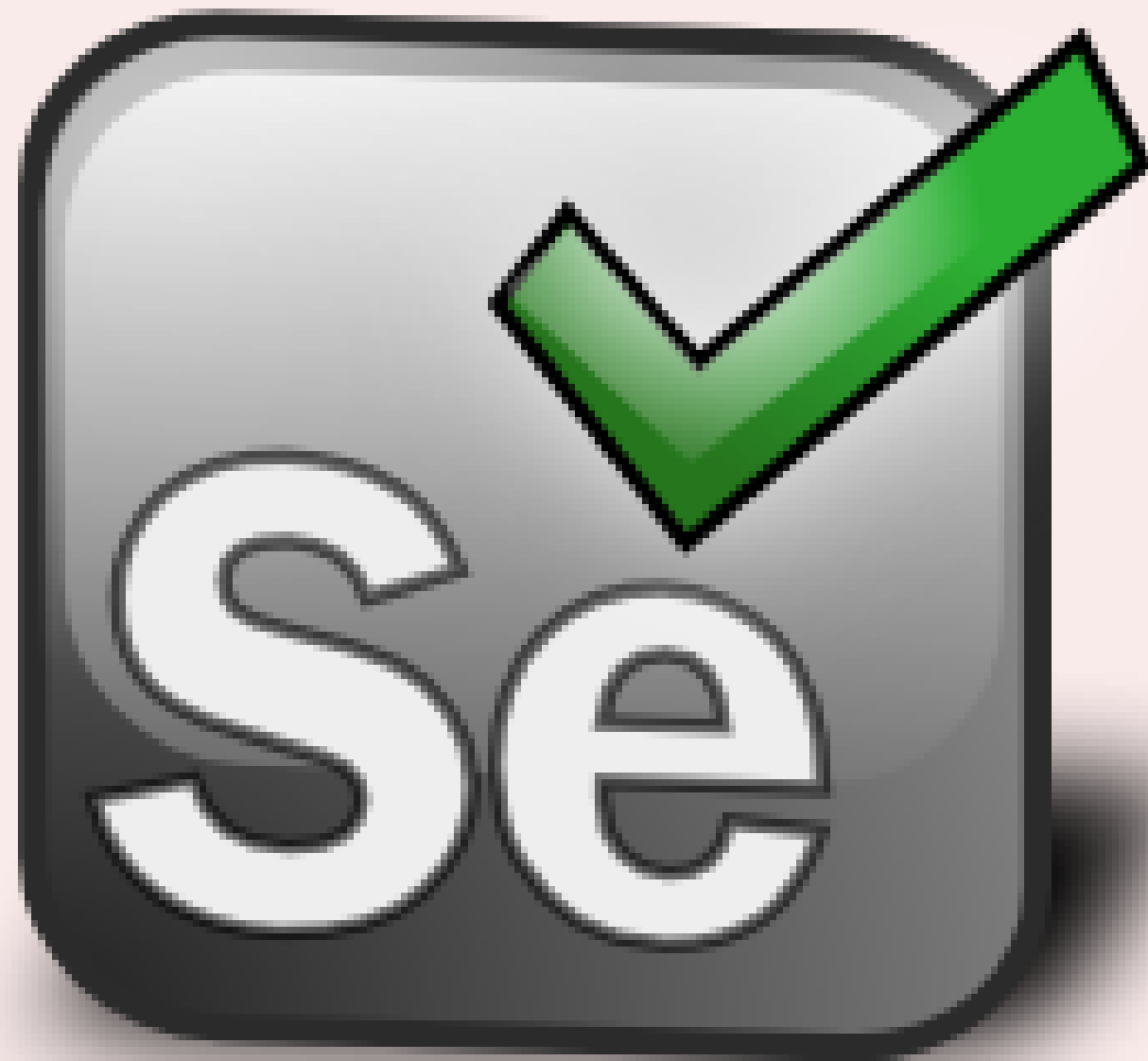
On teste les
FONCTIONNALITE ?

Update .gitlab-ci.yml file

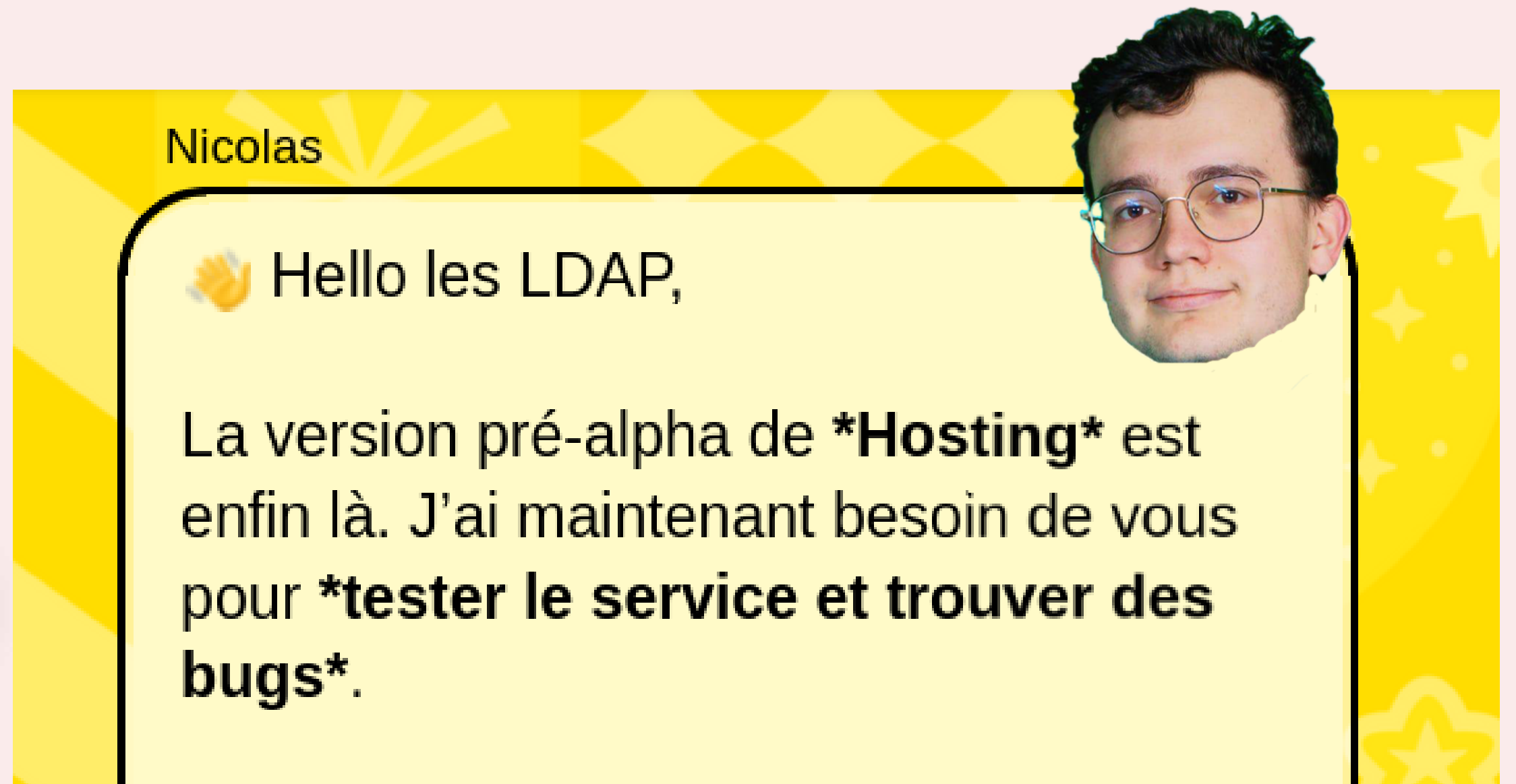
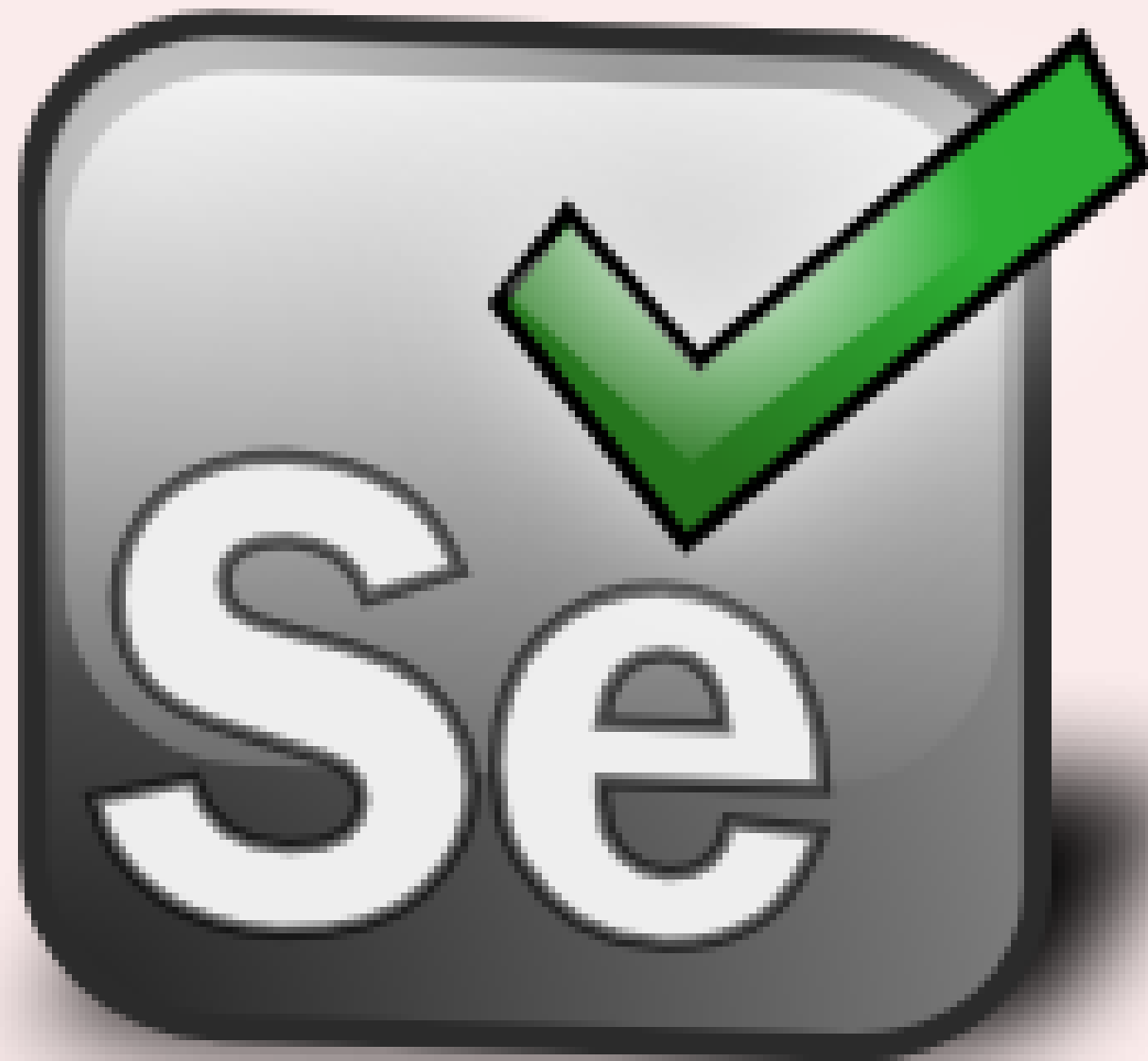
TESTS FONCTIONNELS



TESTS FONCTIONNELLS



TESTS FONCTIONNELS



RELEASE



c'est un build tout clean

DÉPLOIEMENT



ON
DEPLOY
youhouuu



ON
DEPLOY
youhouuu

- Server View
- Datacenter (ktz)
 - anton
 - m1
 - 200 (tsdev-authkey)
 - 204 (nixos)
 - 1999 (tsdev-opensense)
 - 2000 (tsdev-nixos-builder)
 - 2001 (tsdev-nixos-server)
 - 2002 (tsdev-nixos-desktop)
 - 2010 (tsdev-ubu2204-desktop)
 - localnetwork (m1)
 - ISOs (m1)
 - data (m1)
 - local (m1)
 - pve-morpheus (m1)

- Node 'morpheus'
- Search
- Summary
- Notes
- Shell
- System
 - Network
 - Certificates
 - DNS
 - Hosts
 - Options
 - Time

Package versions Hour (average)

morpheus (Uptime: 1 day 23:14:57)

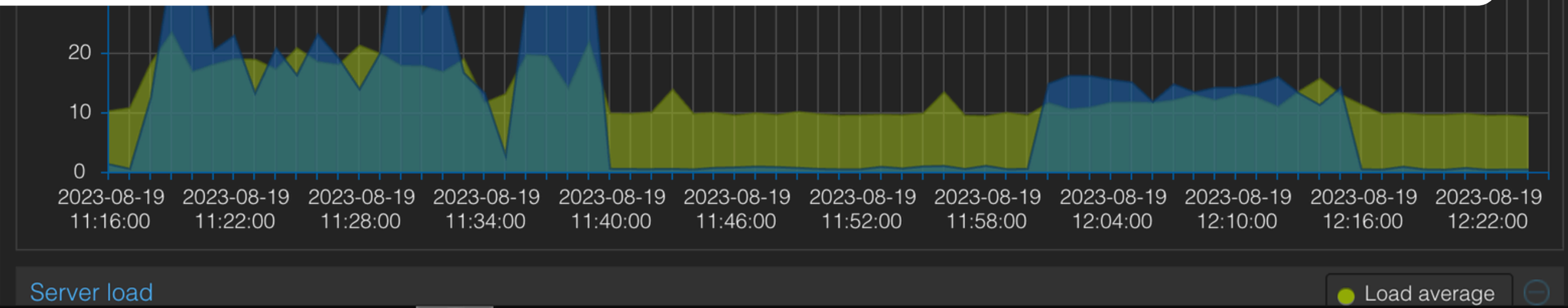
CPU usage	3.20% of 6 CPU(s)	IO delay	0.15%
Load average	1.30, 1.45, 1.86	KSM sharing	0 B
RAM usage	33.35% (20.86 GiB of 62.53 GiB)	SWAP usage	N/A
/ HD space	26.24% (122.76 GiB of 467.89 GiB)		

CPU(s) 6 x Intel(R) Core(TM) i5-8500 CPU @ 3.00GHz (1 Socket)
 Kernel Version Linux 6.2.16-8-pve #1 SMP PREEMPT_DYNAMIC PMX 6.2.16-8 (2023-08-02T12:17Z)
 PVE Manager Version pve-manager/8.0.4/d258a813cfa6b390



- pve-morpheus (morpheus)
- ssd1tb (morpheus)
- zoidberg
 - 4201 (pihole)
 - 4202 (caddy)
 - 4203 (tailscale)
 - 4204 (unifi)
 - 4200 (pihole)
 - localnetwork (zoidberg)

- Directory
- ZFS
- Ceph
- Replication
- Task History
- Subscription





docker
SWARM

A cartoon illustration of a blue whale with large eyes, carrying a stack of three blue shipping containers on its back. The whale is positioned below the text 'SWARM' and is enclosed within a white, cloud-like border.





docker

SWARM



SUPER !!
ya un blookey ?



ET NON



PARLONS

DE CI/CD

Automatisation

de 4 étapes :

tests build CI

release deploy CD

cf. TP

et je parle pas du CF de demain.....

DevOps

**= doctrine, comportements,
manière de programmer**

Piloter (operate)

Y'a assez de puissance

??



Monitoring



~ Alexis Echo Rossfelder +33 6 52 04 48 96

Vieux

Cher réseau 📶,

Toutes les bonnes choses ont une fin, et mon mandat de VP à MiNET aussi. Cela signifie que je demanderai aux formidables adhérents qui venaient régulièrement me demander des choses en DM pour régler leurs problèmes, d'utiliser désormais tickets.minet.net, ou de venir voir le mandat nouvellement élu en permanence (félicitation à eux).

Des remerciements spéciaux vont à ceux qui m'ont proposé des BK et des grecs en échange de résolution de problèmes, ainsi qu'à Muslim'INT qui sont goatesques.

Encore bravo aux nouveau mandat MiNET !!! 🎉

🐧 Bisous débranchés 🌱

Monitoring

ZABBIX		Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Update	Actions	Tags
		08:03:41 PM	Warning		PROBLEM	wlc-master	wlc-master	SSID Declic Client Count significantly dropped (Below 20% of 30d avg)	44s	Update		component: ssid
		20:00										
		07:36:41 PM	Warning		PROBLEM	wlc-master	wlc-master	SSID Sprint_MINET Client Count significantly dropped (Below 20% of 30d avg)	27m 44s	Update		component: ssid
		07:07:41 PM	Warning		PROBLEM	wlc-master	wlc-master	SSID MAISEL Client Count significantly dropped (Below 20% of 30d avg)	56m 44s	Update		component: ssid
		Today										
		2026-05-10 04:49:09 PM	Warning		PROBLEM	es-magus	es-magus	Free disk space is less than 30% on volume	1d 3h 15m	Update		Application: Filesystems
		Yesterday										
		2026-05-07 10:38:36 PM	High		PROBLEM	Scootaloo	Scootaloo	OPNsense: No SNMP data collection	3d 21h 25m	Update	?	class: software component: health component: network ...
		2026-05-07 10:35:54 PM	High		PROBLEM	Scootaloo	Scootaloo	Zabbix agent on Scootaloo is unreachable for 5 minutes	3d 21h 28m	Update	?	Application: Zabbix agent
		2026-05-07 10:32:11 PM	High		PROBLEM	Scootaloo-IPMI	Scootaloo-IPMI	HPE ProLiant DL360: HPE Ethernet 1Gb 4-port 331i Adapter - NIC port 1: Adapter has failed	3d 21h 32m	Update	?	class: hardware component: network scope: available ...
		2026-05-06 04:15:47 PM	Warning		PROBLEM	swarm-phi.minet.lan	swarm-phi.minet.lan	Too many processes on swarm-phi.minet.lan	5d 3h 48m	Update		Application: Processes
		2026-05-05 07:01:51 PM	High		PROBLEM	mx1	mx1	Beaucoup de queue size postfix	6d 1h 2m	Update	?	
		2026-05-05 02:27:02 AM	Warning		PROBLEM	es-padon	es-padon	Free disk space is less than 30% on volume	6d 17h 37m	Update		Application: Filesystems

Monitor



Monitoring

The image shows a Zabbix monitoring dashboard with a large, semi-transparent 'influxdb' watermark overlaid in the center. The dashboard includes a navigation menu on the left, a search bar at the top, and a main area with a line graph and a table of alerts.

ZABBIX

Home > Dashboards > Prod > Temperatures Noeuds CEPH

Time

Search...

Last 6 hours

Export

Share

Refresh

Temperatures Noeuds CEPH

27

26

25

24

23

22

21

arm-phi.minet.lan 5d 3h 48m Update

Beaucoup de queue size postfix 6d 1h 2m Update

es-padon Free disk space is less than 30% on volume 6d 17h 37m Update

class: hardware

component: network

scope: available

Application: Processes

Application: Filesystems

Je suis sain
d'esprit





CODE

Lorem ipsum, or lipsum as it is sometimes Lorem



PLAN

Lorem ipsum, or lipsum as it is sometimes Lorem



RELEASE

Lorem ipsum, or lipsum as it is sometimes Lorem



DEPLOY

Lorem ipsum, or lipsum as it is sometimes Lorem

CODE

PLAN

RELEASE

DEPLOY

Dev

Ops

BUILD

TEST

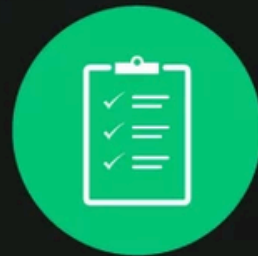
MONITOR

OPERATE



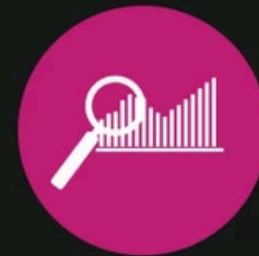
BUILD

Lorem ipsum, or lipsum as it is sometimes Lorem



TEST

Lorem ipsum, or lipsum as it is sometimes Lorem



MONITOR

Lorem ipsum, or lipsum as it is sometimes Lorem



OPERATE

Lorem ipsum, or lipsum as it is sometimes Lorem

TP time

<https://wiki.minet.net/fr/tps/tp-formations/TP-ci/cd>