



SERVEUR GITLAB

MULTI TIER



TANET MARGAUX

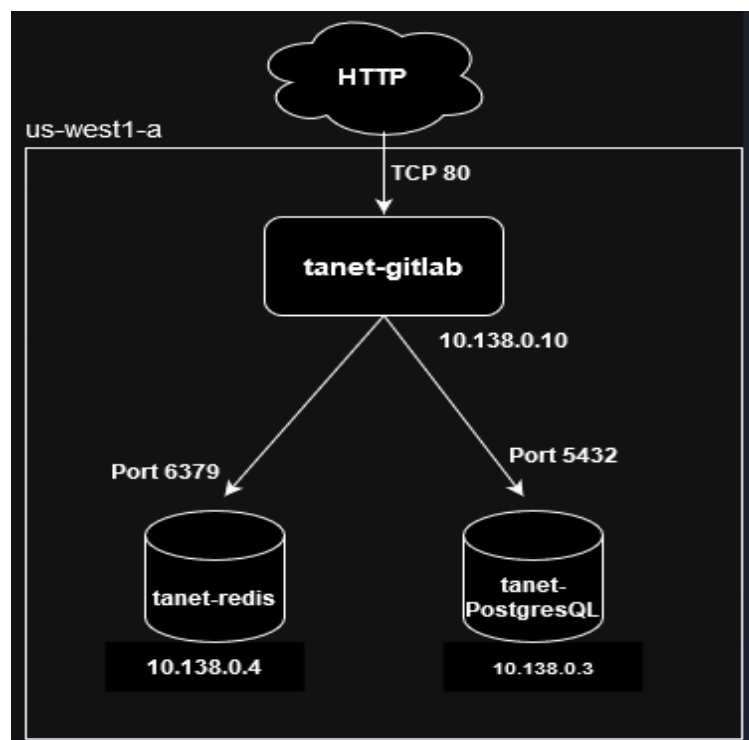
CPI 2024-2025

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Installations a effectuées :

- Installation d'une VM GitLab comprenant :
 - GitLab et Nginx installés
 - Le port HTTP est ouvert et accessible depuis l'extérieur
- Installation d'une VM PostgresQL
 - Être accessible depuis le réseau interne (10.x.y.z)
 - Être inaccessible depuis internet
- Installation d'une VM Redis
 - Être accessible depuis le réseau interne (10.x.y.z)
 - Être inaccessible depuis internet
- Toutes les VM doivent être présente dans la même région



❖ Paramètres des VM:

VM Gitlab : user : **root** mot de passe: **mewomewo****VM Redis** : user: **root** mot de passe: **mewo****VM PostgreSQL**: user: **gitlab** mot de passe: **mewo**

nom de la bdd: gitlabhq_production

❖ Règles de pare-feu :

	Target tags	IP range	Ports
Allow-tanet-redis	Tanet-redis	10.138.0.0/24	TCP: 6379
Allow-tanet-postgresql	Tanet-postgresQL	10.138.0.0/16	TCP: 5432

Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP
	spriet-db	us-east4-c			10.150.0.4 (nic0)	35.245.176.200 (nic0)
	spriet-gitlab	us-east4-c			10.150.0.6 (nic0)	34.48.172.56 (nic0)
	spriet-redis	us-east4-c			10.150.0.3 (nic0)	35.245.43.65 (nic0)
	tanet-gitlab	us-west1-a			10.138.0.10 (nic0)	34.169.82.107 (nic0)
	tanet-postgresql	us-west1-a			10.138.0.3 (nic0)	34.169.42.117 (nic0)
	tanet-redis	us-west1-a			10.138.0.4 (nic0)	34.19.26.27 (nic0)

❖ Résultat obtenu à la fin des installations et des paramétrages :

Your work / Projects

Welcome to GitLab, Administrator!

Ready to get started with GitLab? Follow these steps to get familiar with us:

Create a project

Projects are where you store your code, access issues, wiki, and other features of GitLab.

Create a group

Groups are a great way to organize projects and people.

Add people

Add your team members and others to GitLab.

Configure GitLab

Make adjustments to how your GitLab instance is set up.

❖ Procédures nécessaires : (Pour le test, une alerte par mail a été faite)

→ Disk pressure > 80% pour le GitLab

The screenshot shows the Google Cloud Monitoring console interface for creating an alerting policy. The left sidebar shows the navigation menu with 'VM Instance - Disk utilization' selected. The main area is titled 'Policy configuration mode' and includes sections for 'Select a metric', 'Add filters', 'Transform data', and 'Across time series'. The 'Select a metric' section shows 'VM Instance - Disk utilization' selected. The 'Add filters' section shows a filter for 'name = tanet-gitlab'. The 'Transform data' section shows a rolling window of '1 min' and a rolling window function of 'mean'. The 'Across time series' section is currently empty. On the right, a preview chart shows disk utilization over time, with a red dashed line indicating the 80% threshold. Below the chart, a table shows the current state of disk utilization for different devices.

state	device	Value
free	/dev/sda1	22.858 %
free	/dev/sda15	90.654 %

→ Configuration d'alerte pour l'alerte du disque pour GitLab

The screenshot shows the 'Configure alert trigger' section of the Google Cloud Monitoring console. The left sidebar shows the navigation menu with 'VM Instance - Disk utilization' selected. The main area is titled 'Configure alert trigger' and includes sections for 'Condition Types', 'Alert trigger', 'Threshold position', 'Threshold value', 'Advanced Options', and 'Policy Details'. The 'Condition Types' section shows 'Threshold' selected. The 'Alert trigger' section shows 'Any time series violates' selected. The 'Threshold position' section shows 'Above threshold' selected. The 'Threshold value' section shows '80 %' entered. The 'Advanced Options' section shows 'Condition name *' set to 'VM Instance - Disk utilization'. The 'Policy Details' section shows 'Alert Policy Name' set to 'Disk Pressure' and 'Severity' set to 'Critical'. The 'Notification channels' section shows 'Notify on incident open only' and 'Incidents with absent data will auto close after 1 minute.' The 'Documentation' section is currently empty.

VM Instance - Disk utilization

Condition type	Triggers when	Threshold position	Threshold value	Retest window
Threshold	Any time series cross threshold	Above threshold	80	No retest

Policy Details

Alert Policy Name
Disk Pressure

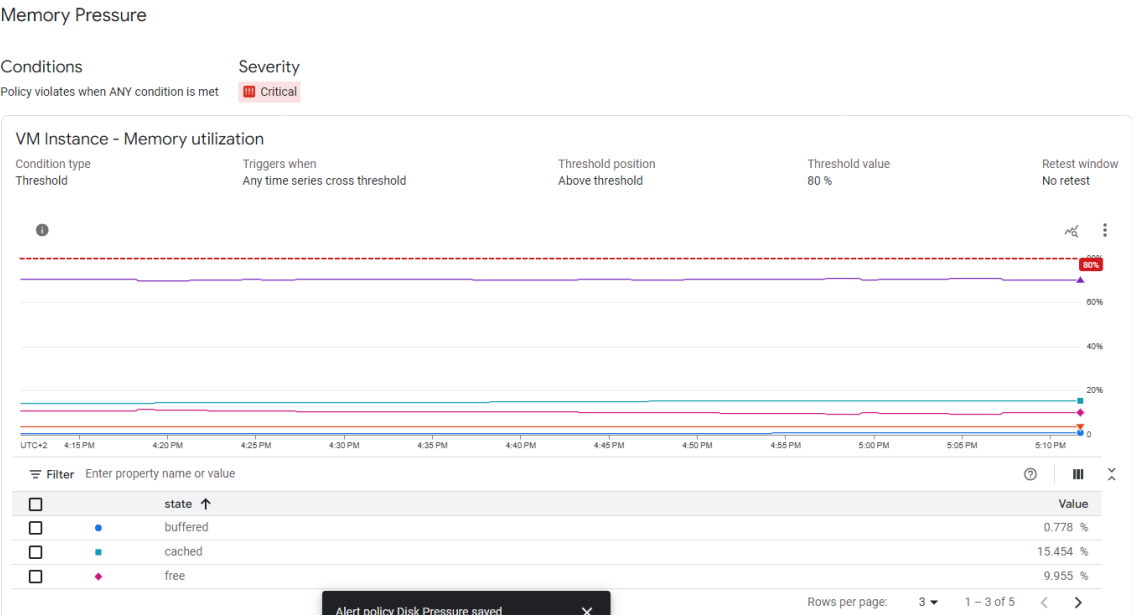
Severity
Critical

Notification channels
Notify on incident open only.
Incidents with absent data will auto close after 1 minute.

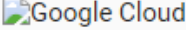
Channel type	Channel name
No rows to display	

Documentation

→ Memory (RAM) pressure > 80% pour le GitLab



- ❖ Exemple d'un mail d'alerte après le dépassement à 80 % de l'utilisation du disque :

 [VIEW INCIDENT](#)

 error icon Alert firing

 Critical Critical

VM Instance - Disk utilization is above threshold of 80 with a value of 90.653467847613626

Start time
Sep 25, 2024 at 3:06PM UTC (~6 minutes ago)

Policy
Disk Pressure

Project
spriet-tanet-tomasina

Condition
VM Instance - Disk utilization

metric : agent.googleapis.com/disk/percent_used

device : /dev/sda15

instance_id : 5309507826461078894

name : tanet-gitlab

project_id : spriet-tanet-tomasina

state : free

zone : us-west1-a

[VIEW INCIDENT](#)

Conclusion :

Dans ce rapport il est expliqué les installations effectuées et les paramètres des VM. Il est décrit également les règles de pare-feu mises en place pour la sécurité. Il est présenté la configuration des alertes générées. Enfin, un exemple de mail d'alerte est inclus pour illustrer la communication en cas d'incident.