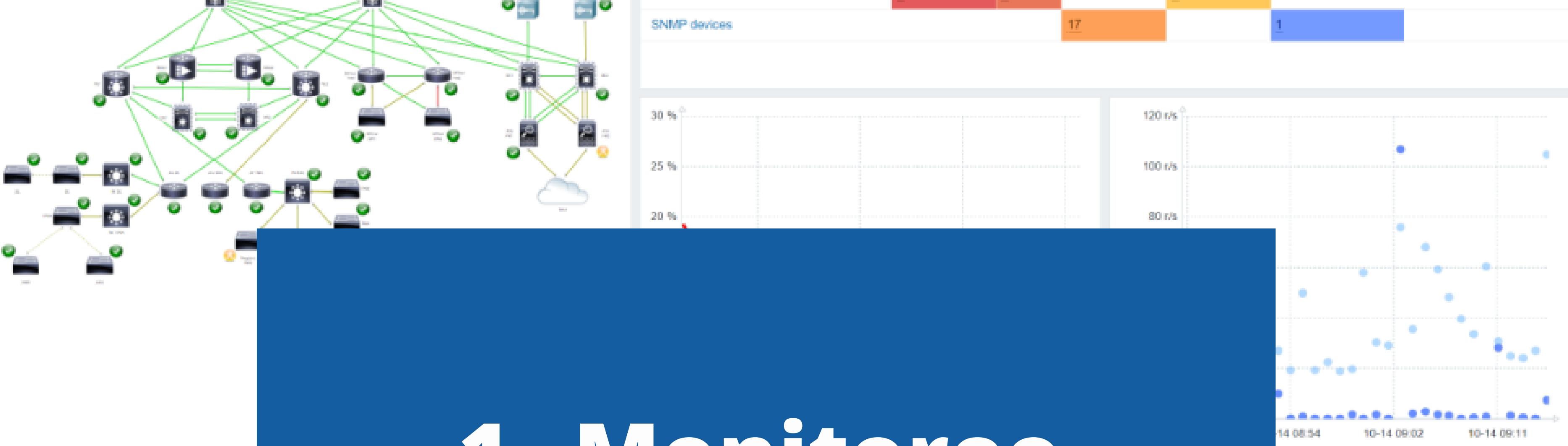


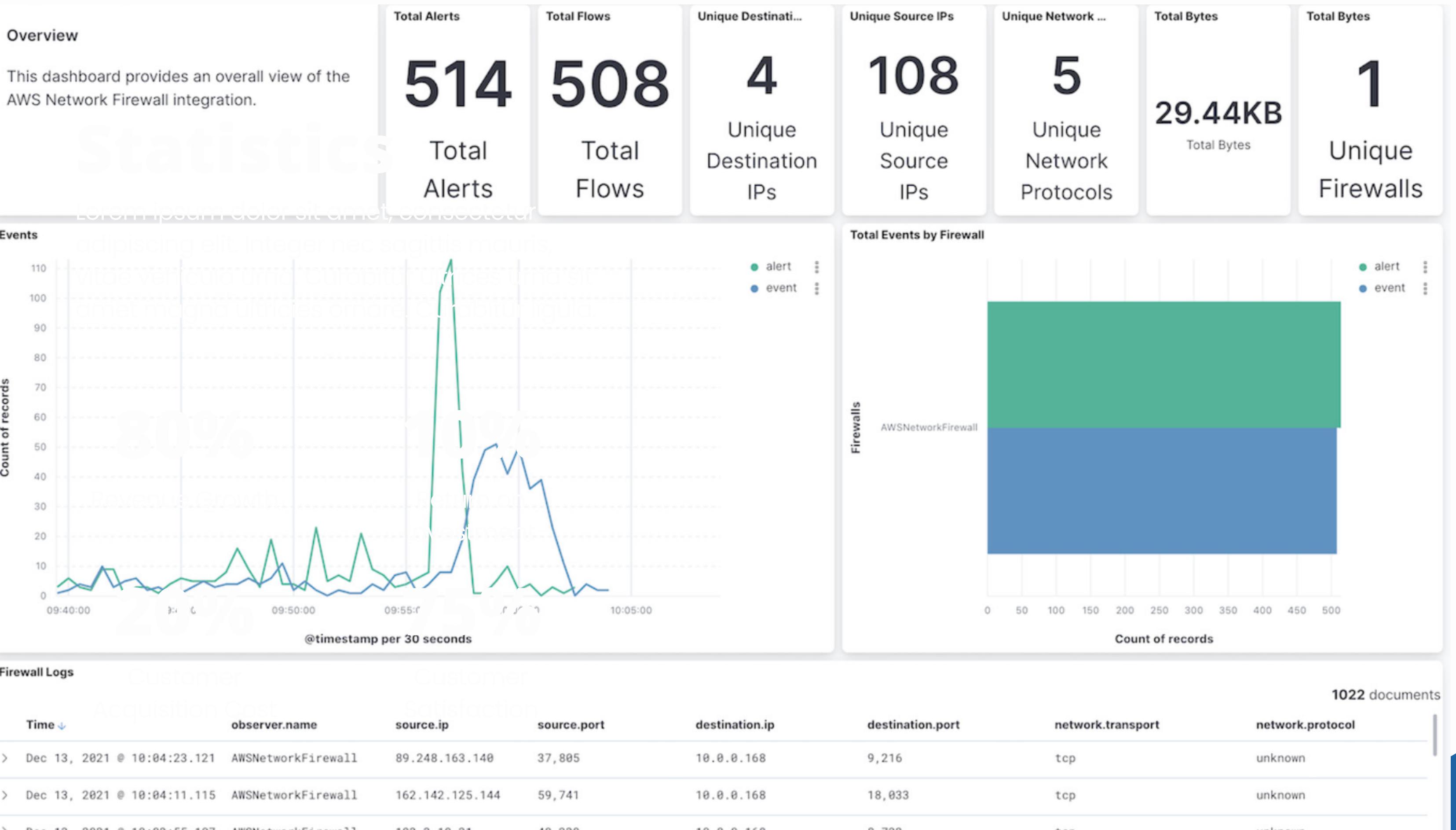
Fault Trace

Sistema detector de fallas
en sistemas distribuidos.

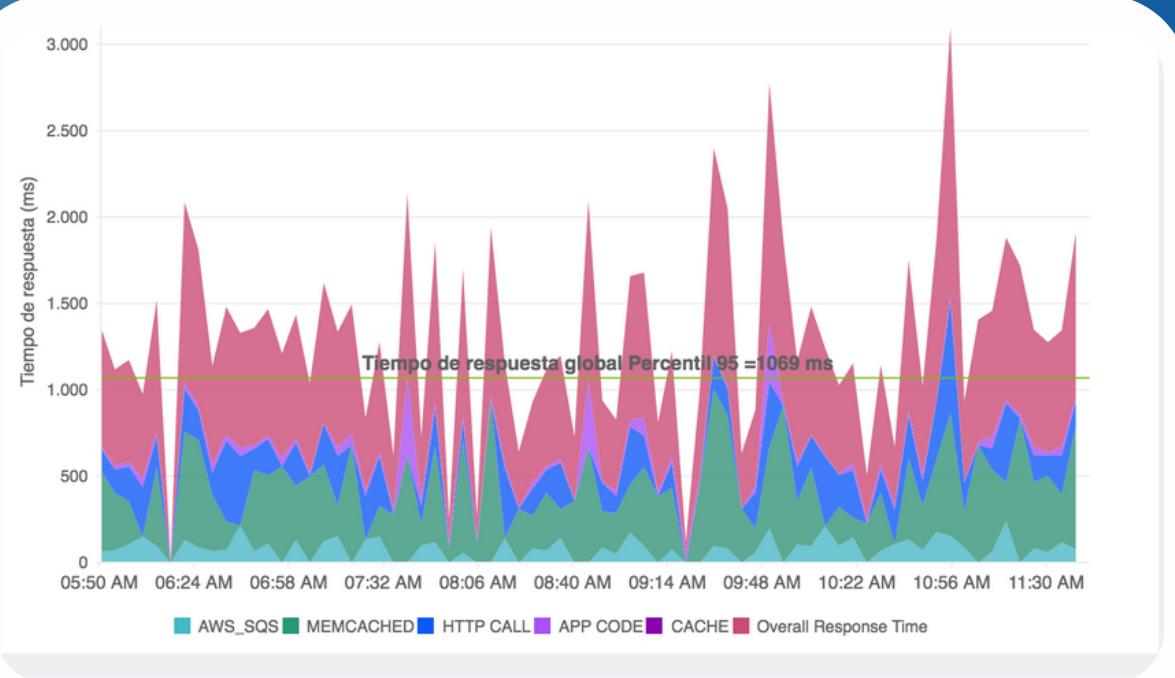


1. Monitoreo





2. Tipos de monitoreos



2.1 Monitoreo de Rendimiento

- Red
- Memoria
- Almacenamiento
- Procesos
- Servidor



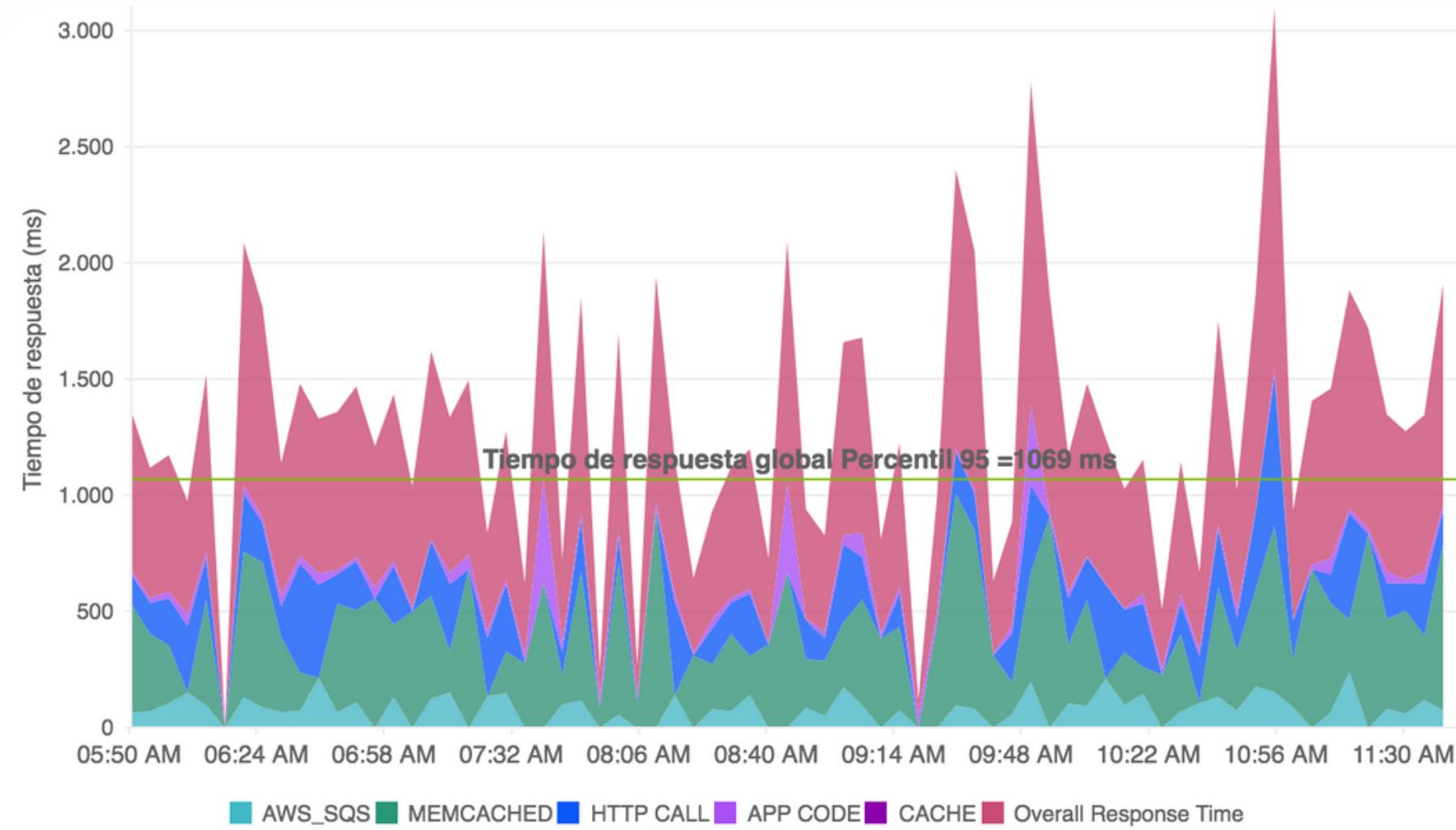
2.2 Monitoreo de Infraestructura

- Servidor



2.3 Otros tipos de Monitoreo

- logs.
- Aplicación.
- Base de datos
- infraestructura en la nube.



2.1. Monitoreo de Rendimiento



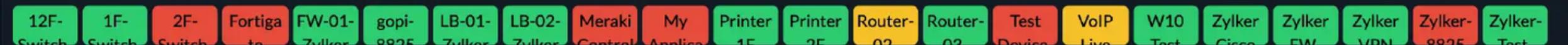
2.1.1 Monitoreo de Red

Zylker Network Dashboard

Last updated 19 seconds ago



Current Status of All Monitors



Zylker Cisco Router - Primary

Response Time

29ms

Zylker Cisco Router

Cisco Temperature-Exhaust ...

Cisco Temperature-Exhaust Left

22Celsius

Zylker Cisco Router

Cisco Temperature-Exhaust ...

Cisco Temperature-Exhaust Right

16Celsius

Zylker Cisco Router

Cisco Temperature-Intake Ri...

Cisco Temperature-Intake Right

12Celsius

Zylker Cisco Router

Cisco Temperature-Intake Le...

Cisco Temperature-Intake Left

10Celsius

Zylker Cisco Router

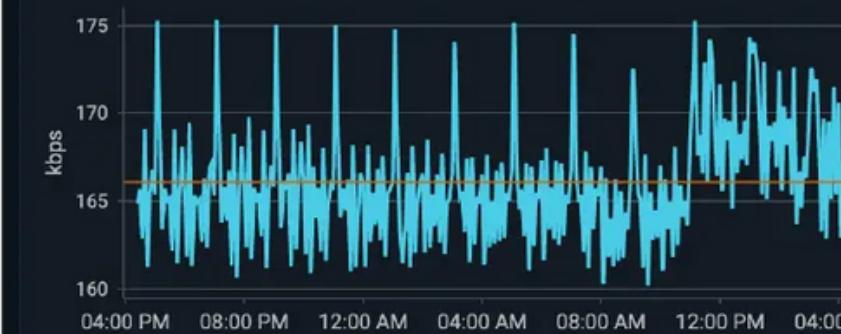
Cisco Temperature-Power S...

Cisco Temperature-Power Supply

32Celsius

Zylker Cisco Router

In Traffic of GigabitEthernet0/2-Gi0/2 (Zylker Cisco Router)



Out Traffic of GigabitEthernet0/2-Gi0/2 (Zylker Cisco Router)



Packets of GigabitEthernet0/2-Gi0/2 (Zylker Cisco Router)



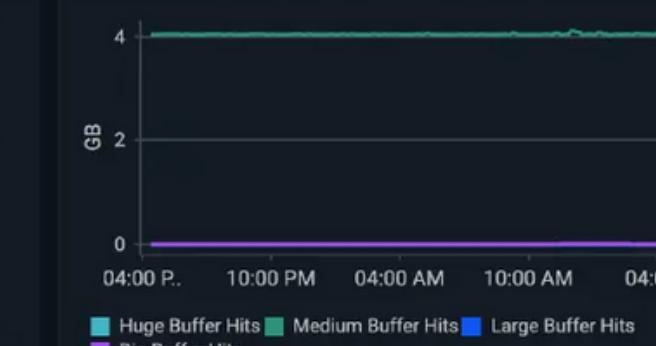
CPU Usage of Zylker Cisco Router



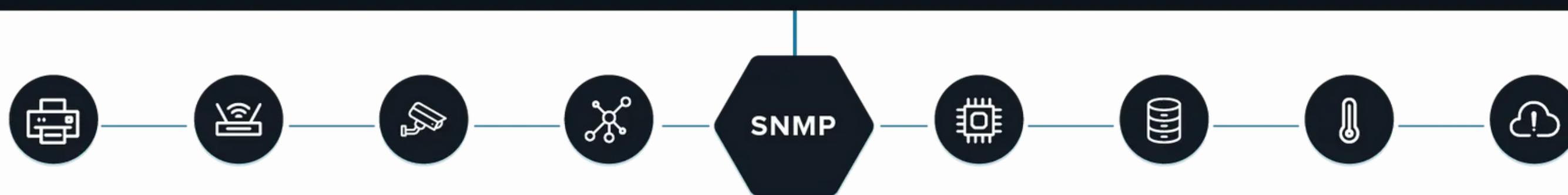
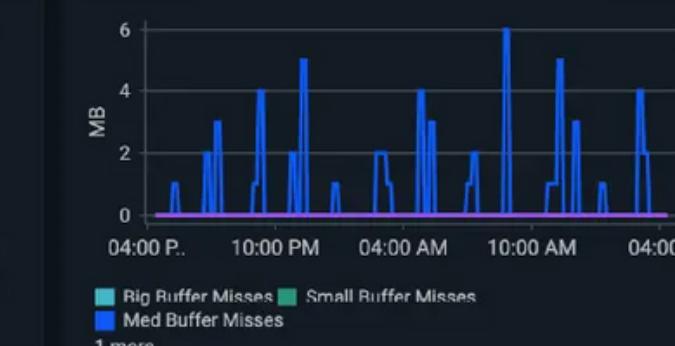
Cisco Memory Utilization of Zylker Cisco Router



Buffer Hit Statistics of Zylker Cisco Router

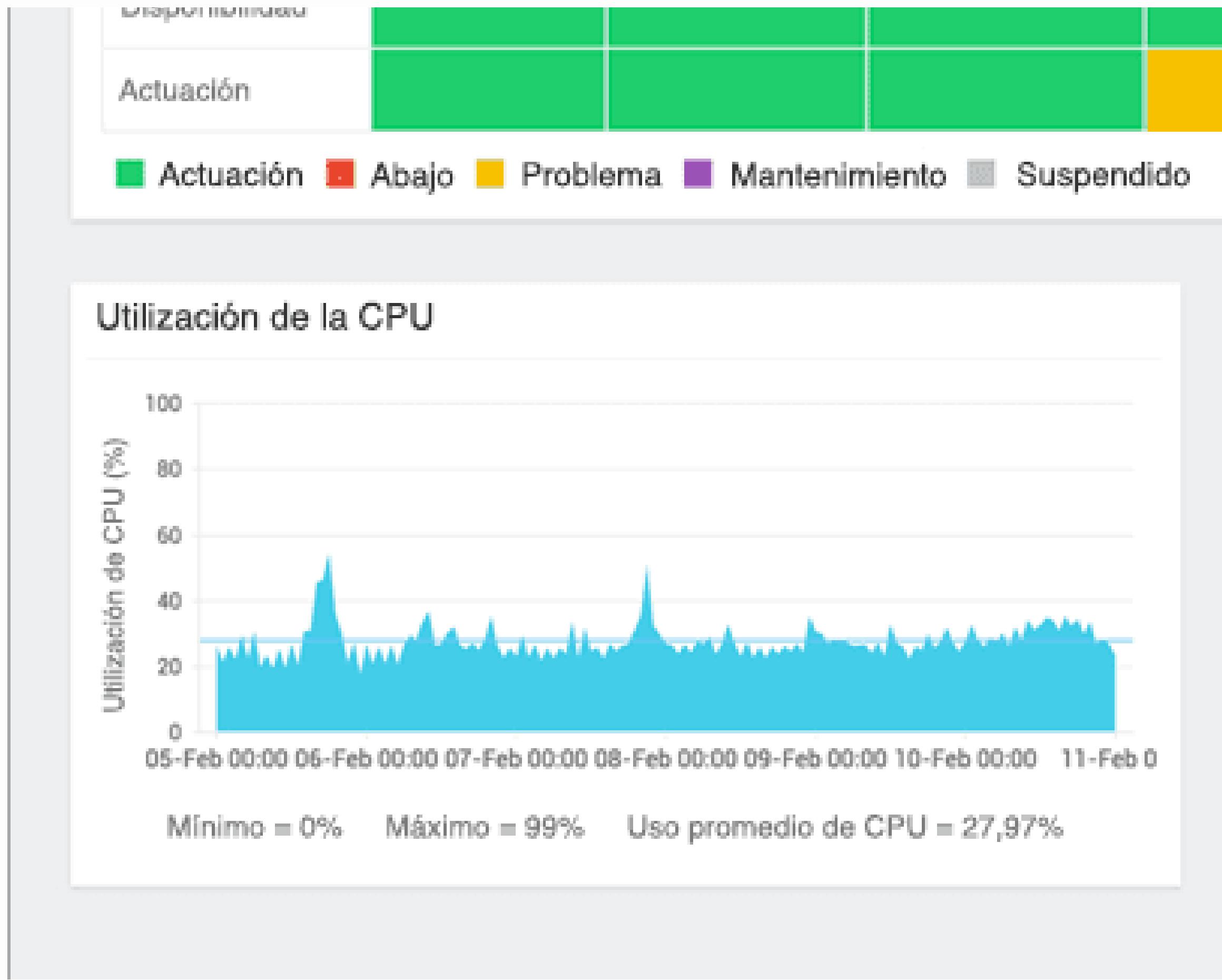


Buffer Miss Statistics of Zylker Cisco Router





2.1.3 Monitoreo de CPU (Unidad Central de Procesamientos)



100 %

Disponibilidad

27.97 %

CPU

70.9 %

Memoria

51 %

Disco

0

Tiempos de inactividad

- NA -

SLA logrado

Mapa de calor de estado/rendimiento

Tiempo	Fri 5
Disponibilidad	
Actuación	
■ Actuación ■ Abajo	

Thu 11

2.1.4 Monitoreo de Memoria

100 %

Disponibilidad

27.97 %

CPU

70.9 %

Memoria

51 %

Disco

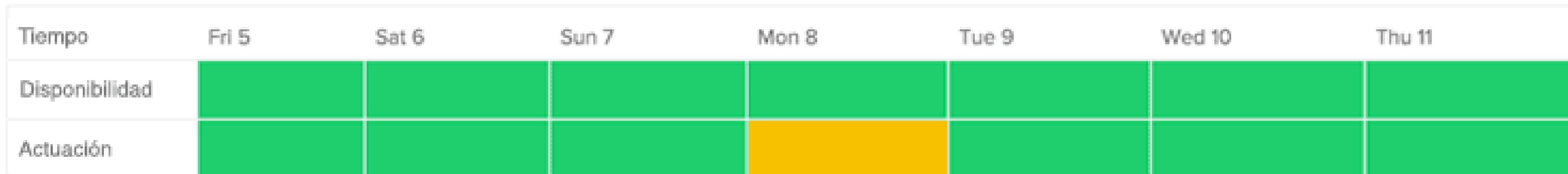
0

Tiempos de inactividad

- NA -

SLA logrado

Mapa de calor de estado/rendimiento



Actuación Abajo Problema Mantenimiento Suspendido

100 %

Disponibilidad

27.97 %

CPU

70.9 %

Memoria

51 %

Disco

0

Tiempos de inactividad

- NA -

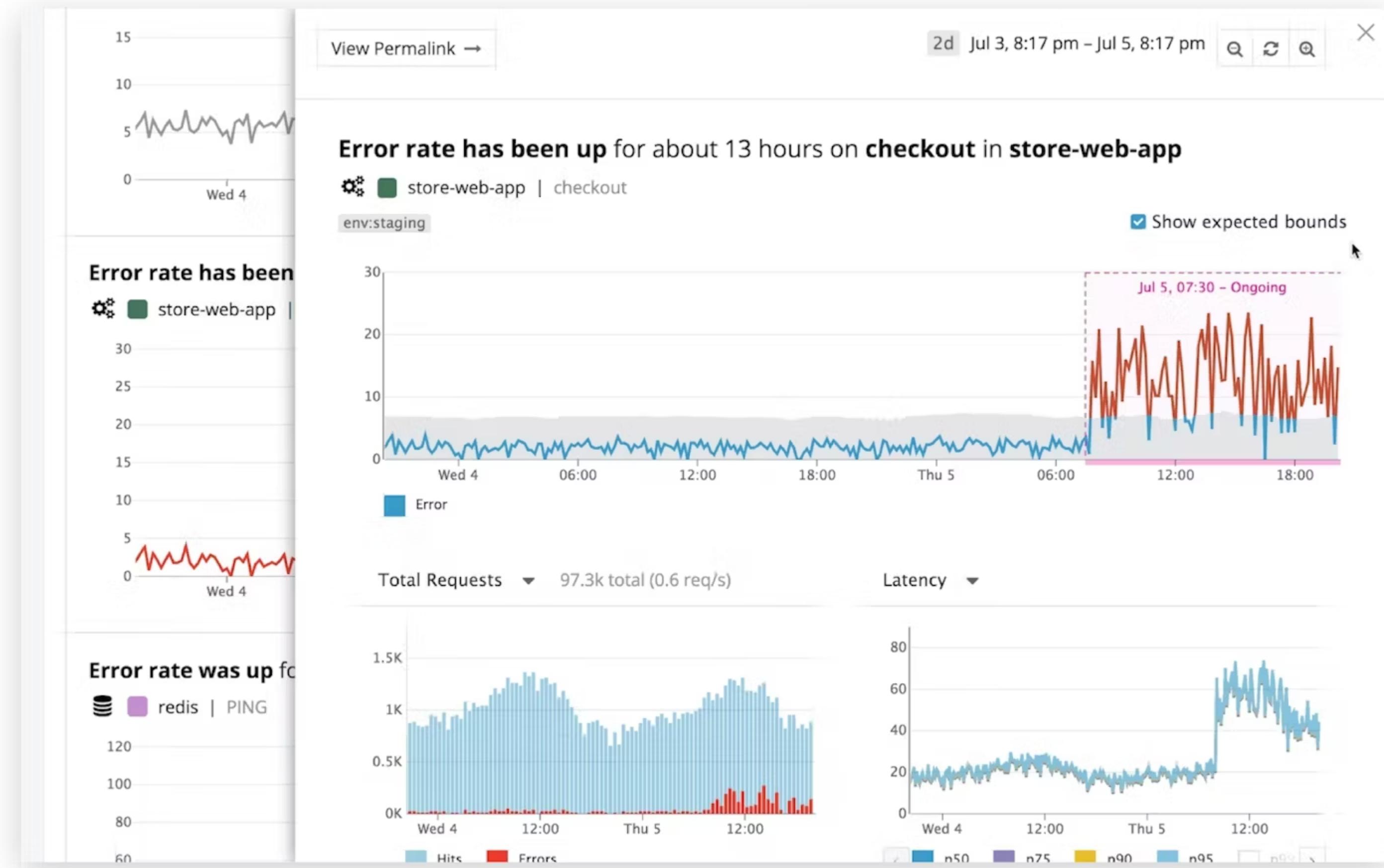
SLA logrado

Mapa de calor de estado/rendimiento

Tiempo	Fri 5
Disponibilidad	
Actuación	
■ Actuación ■ Abajo	

Thu 11

2.1.5 Monitoreo de Almacenamiento



2.1.6 Monitoreo de Procesos

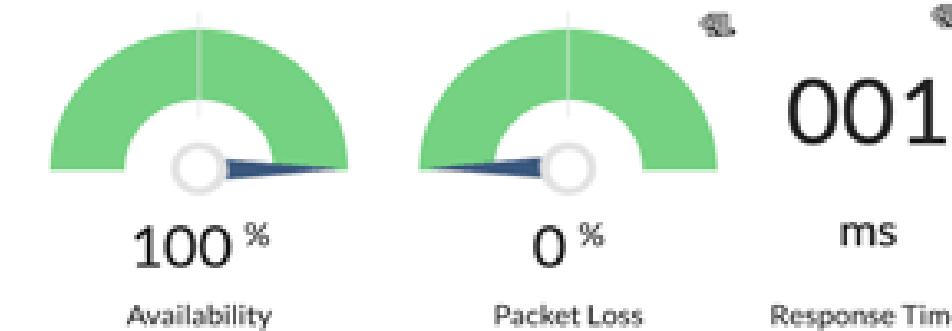
Device Summary

Status	Clear
IP Address	172.16.1.100
DNS Name	opm
Type	Windows 2012 R2
Vendor	Microsoft
System Description	Hardware: Intel64 Family 6 Model 85 Stepping 4 AT/AT COMPATIBLE - Software: Windows Version 6.3 (Build 9600 Multiprocessor Free)
Category	Server
Monitoring (mins)	5
Uplink Dependency	None
RAM Size	8 GB
Hard Disk Size	200 GB

Availability Timeline (Today)



● Up Time ● On Maintenance ■ Dependent Unavailable ■ On Hold ■ Down Time ■ Not Monitored



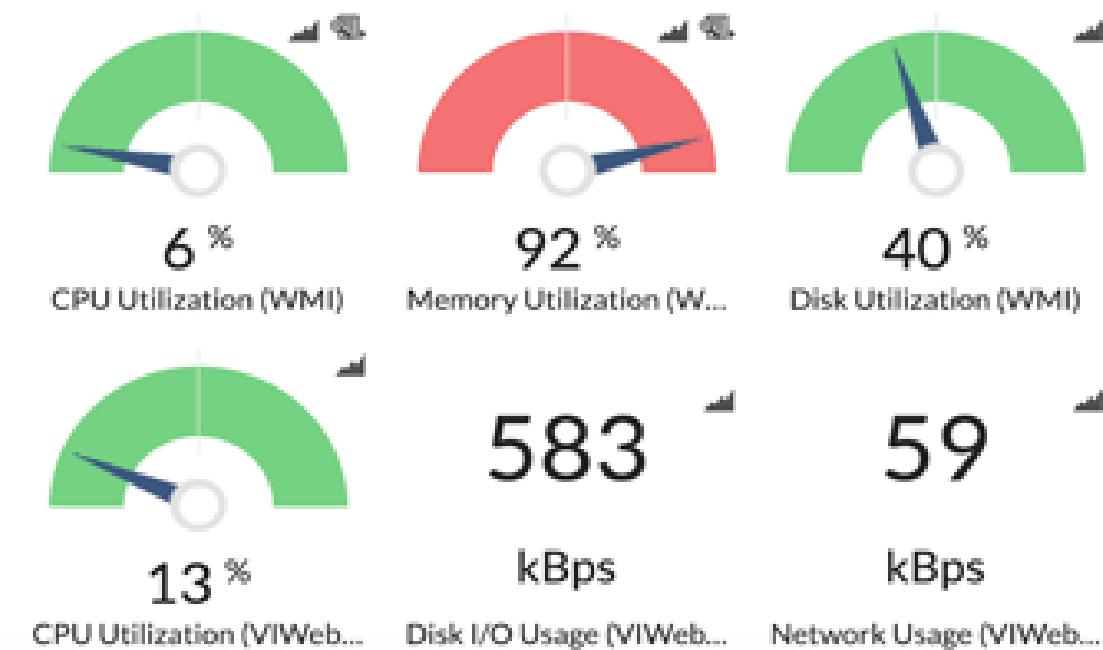
Recent Alarms

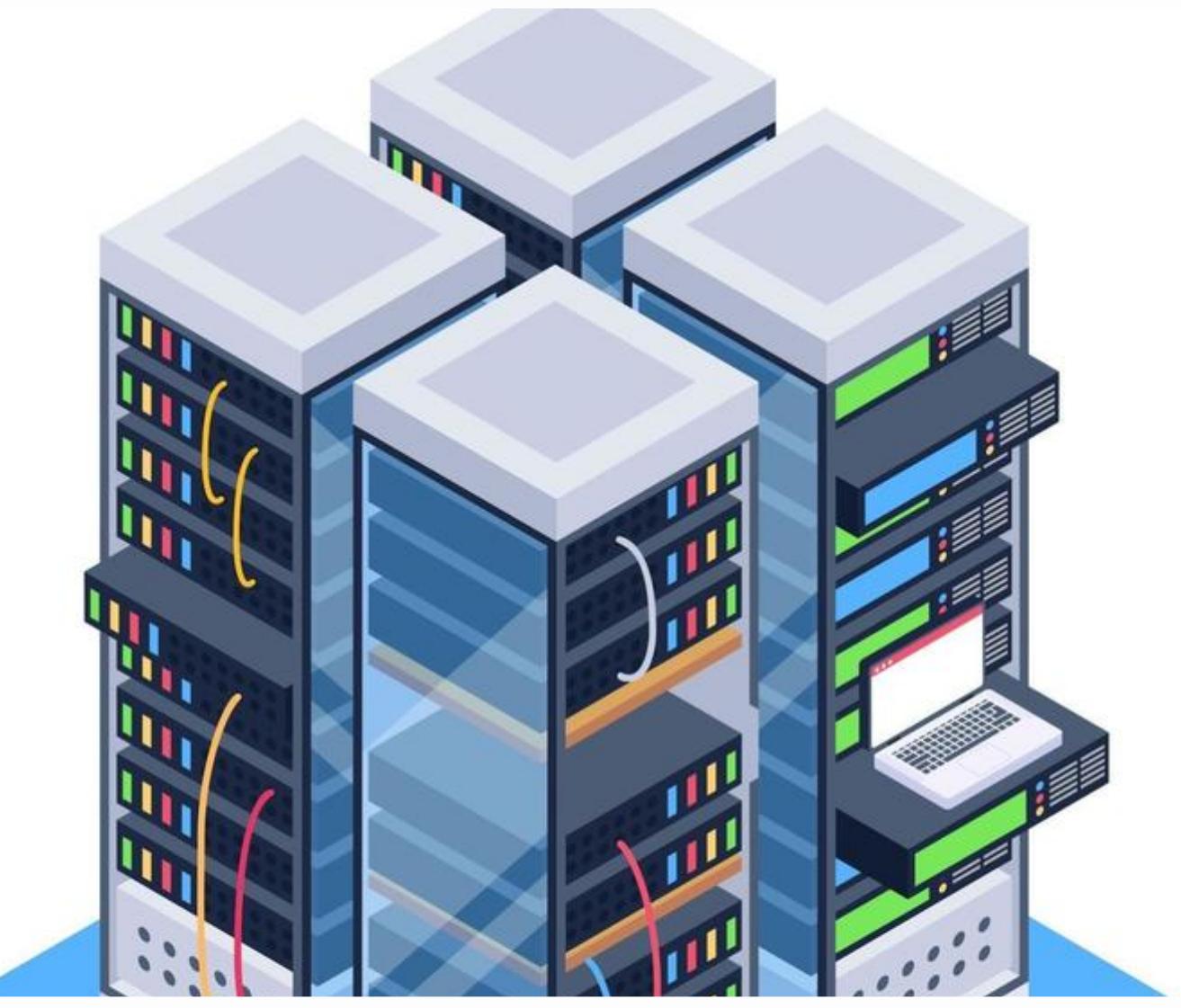
Currently there are no open Alarms.

VM Info

Entity Name	opm
UUID	564d093e-5e43-a193-a082-bc59ab16d637
Guest OS	
CPU	2
CPU Speed	4390
Memory	8 GB
Memory Overhead	
Host	N1-c
vCenter Server	Opn
Power State	On
Connection State	connected
Last Updated Time	2019-02-18 15:27:31.578

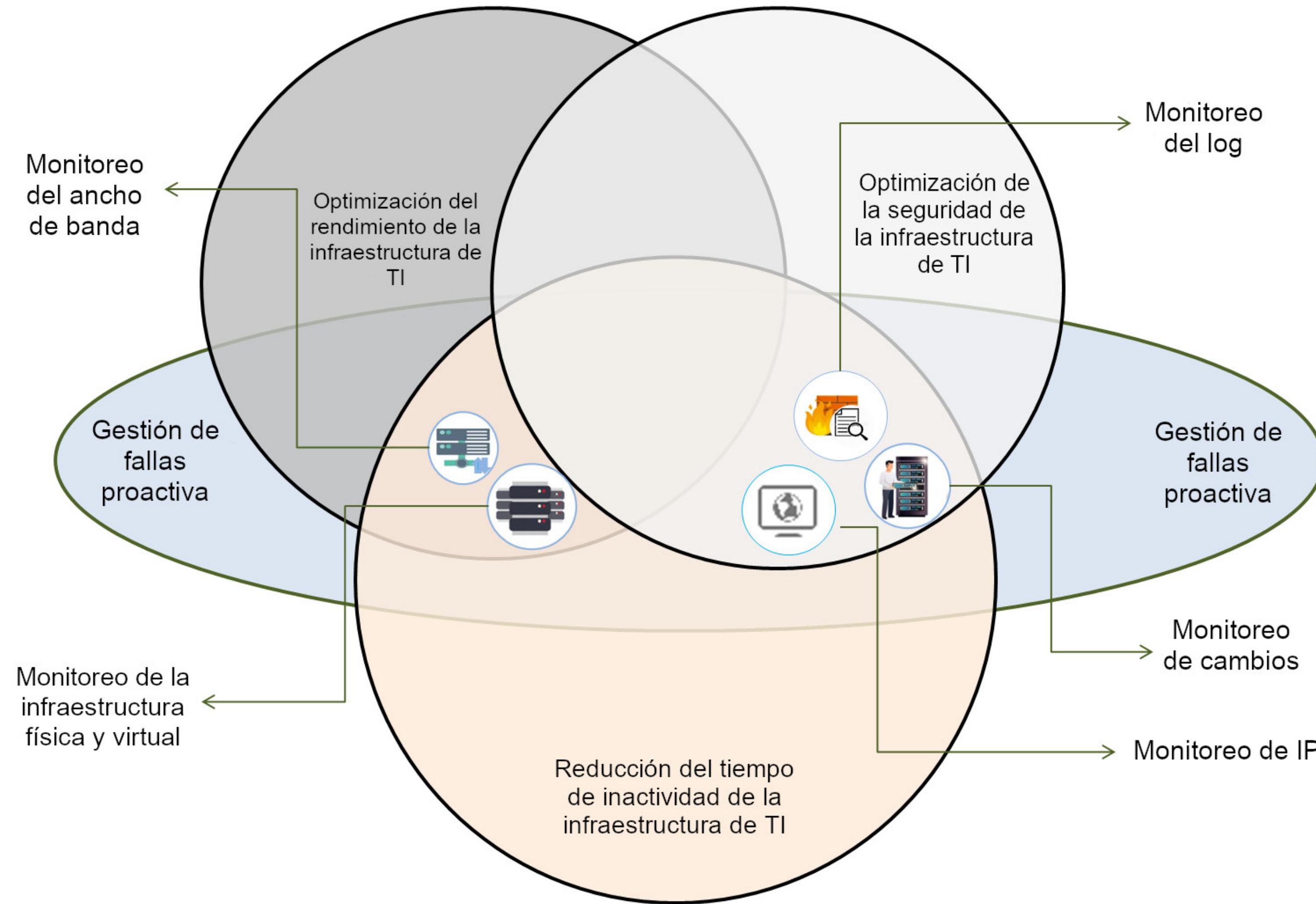
Custom Dials





2.2 Monitoreo de Infraestructura

Monitoreo de la infraestructura de TI





2.2.1 Monitoreo de Servidores

Devices by CPU Utilization

Device Name	Min	...	Avg
-------------	-----	-----	-----

HP ProLiant DL380	31	10	█	71
-------------------	----	----	--	----

HP ProLiant DL325	12	10	█	60
-------------------	----	----	--	----

OPM-QA4	29	4	█	37
---------	----	---	---	----

k16-DChv	14	3	█	23
----------	----	---	---	----

OPMdev8	4	3	█	13
---------	---	---	---	----

Cisco 2900 IS	11	2	█	12
---------------	----	---	---	----

OPM-VA...	0	6	█	10
-----------	---	---	---	----

Cisco 2800 IS	5	6	█	5
---------------	---	---	---	---

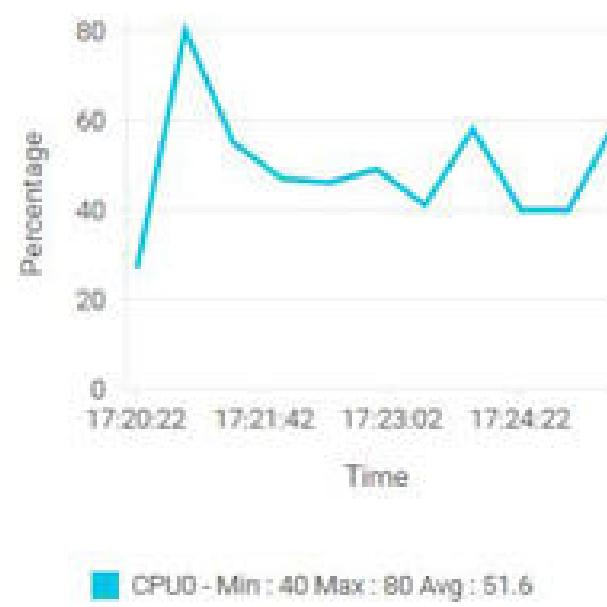
vCenter 2008 R2	3	6	█	5
-----------------	---	---	---	---

HP Switch 1920-8	0	4	█	1
------------------	---	---	---	---

Infrastructure Snapshot

Real Time CPU Utilization

CPU Utilization of HP ProLiant DL380



Real Time Memory Utilization

Memory Utilization of HP ProLiant DL380



Devices by Availability

Device Name	Availability (%)
-------------	------------------

HP ProLiant DL325 (127.0.0.1)	█ 100%
-------------------------------	--

HP Server (172.24.153.181)	█ 100%
----------------------------	--

HP ProLiant DL380 (172.21.144.182)	█ 66%
------------------------------------	---

Cisco 2800 IT (192.168.50.131)	█ 53%
--------------------------------	---

Cisco 2900 IS (192.168.50.140)	█ 53%
--------------------------------	---

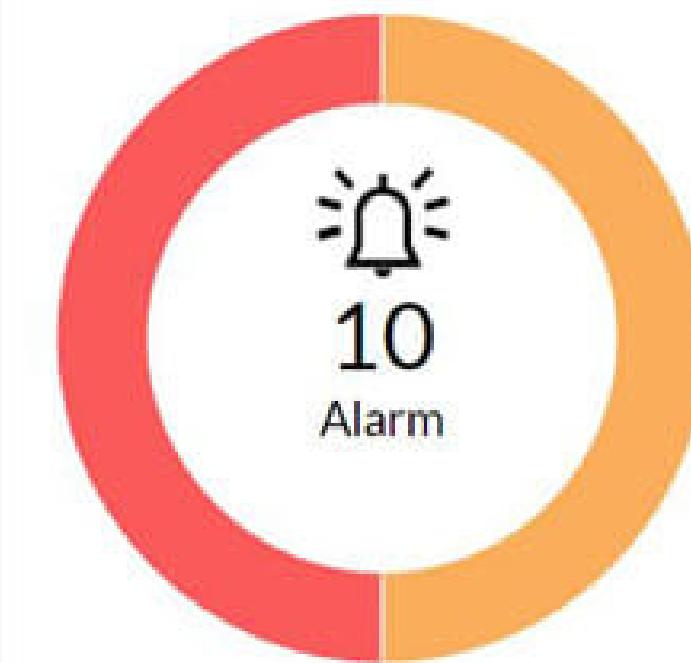
OPM-QA4 (172.24.159.184)	█ 53%
--------------------------	---

vCenter 2008 R2 (192.168.50.223)	█ 53%
----------------------------------	---

OPMdev2 (172.21.206.193)	█ 53%
--------------------------	---

OPMdev8 (172.21.152.73)	█ 53%
-------------------------	---

Recent Alarms



Device Name

Device Down: No response from device f...

HP DL580
4 Feb 2019 05:08:33 PM IST

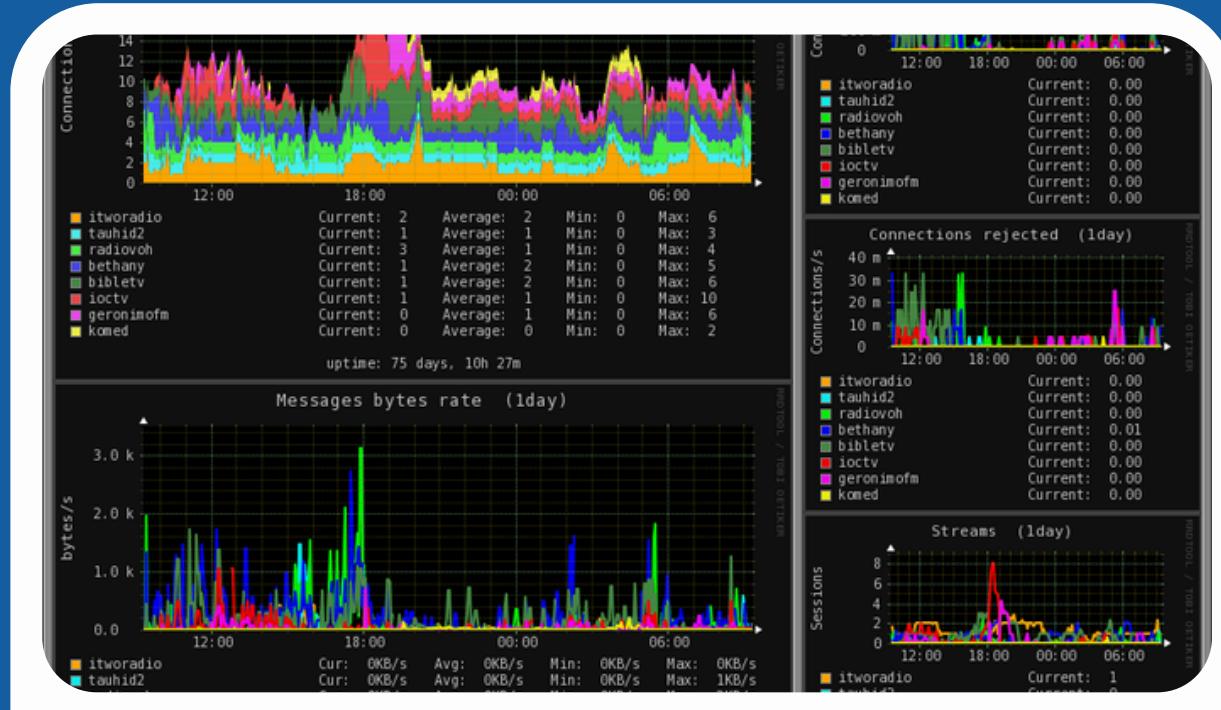
Device Configuration Backup failed for 1...

Cisco 2900 IS
4 Feb 2019 05:01:12 PM IST

Device Configuration Backup failed for 1...



2.3. Otros tipos de Monitoreo



2.3.1. Logs



2.3.2 Bases de datos



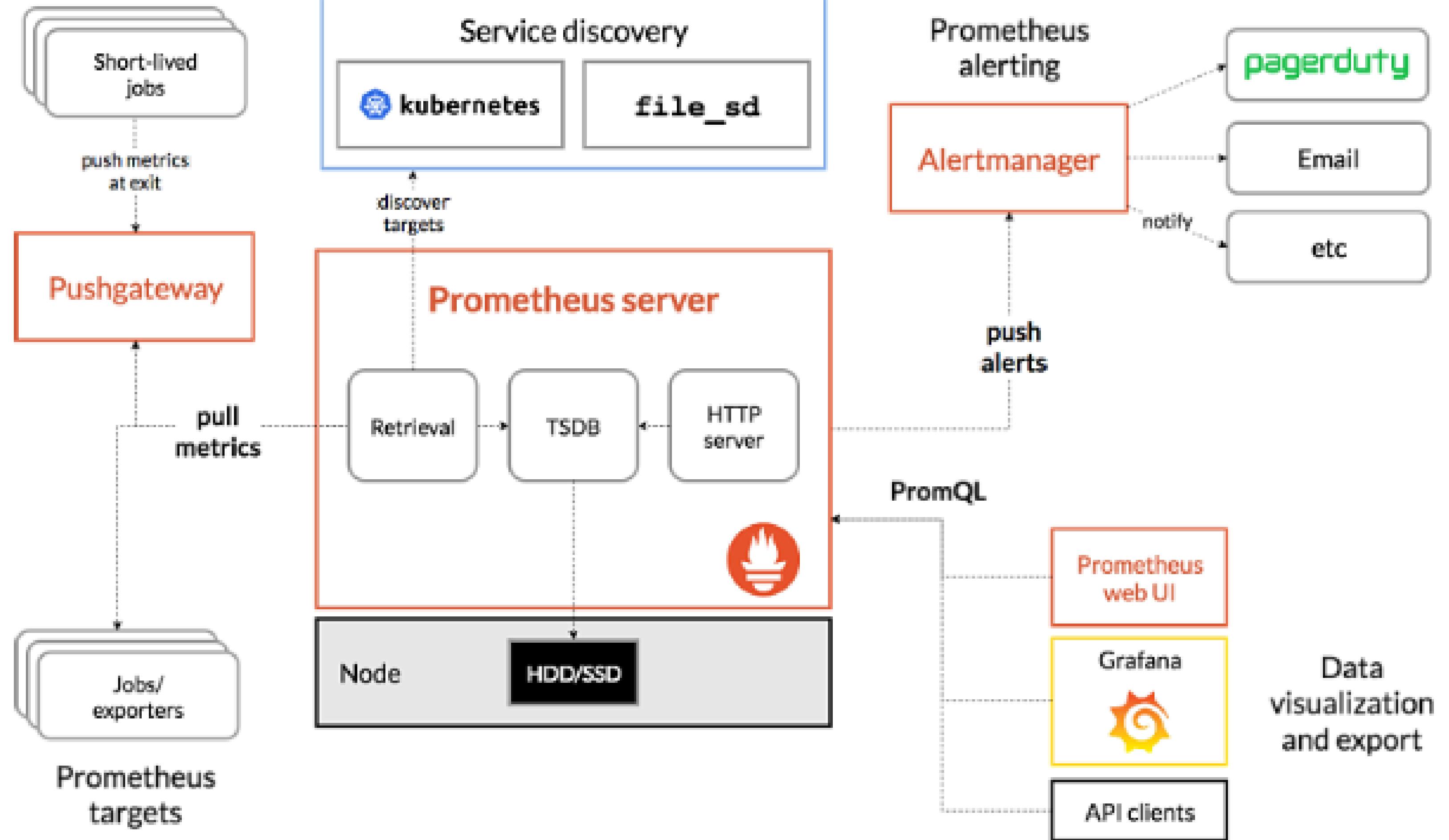
2.3.3. Aplicaciones



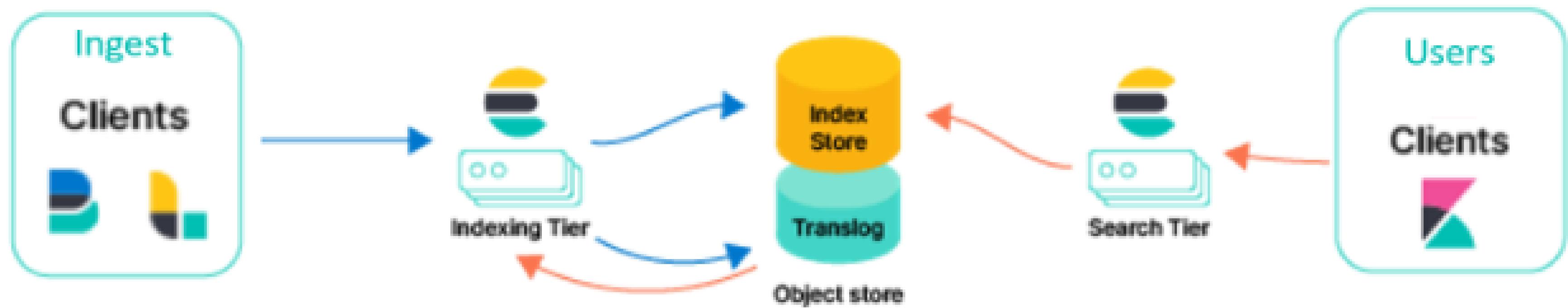
2.3.4 Infraestructura en la nube



3. Arquitecturas



New Architecture



4. Plataformas de monitoreo existentes



Funcionalidad	Prometheus	Datadog	New Relic	Dynatrace	Nagios
Monitoreo de métricas	✓	✓	✓	✓	✓
Monitoreo de logs	✓	✓	✓	✓	✓
Monitoreo de eventos	✓	✓	✓	✓	✓
Monitoreo de servicios	✓	✓	✓	✓	✓



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