

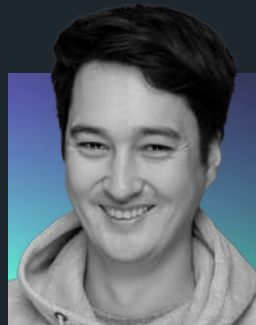


The New Checkmk 2.5

Easier, Faster, and Even More Scalable



Afrida Mahbub
VP Product Marketing
Checkmk



Martin Hirschvogel
Chief Product Officer
Checkmk

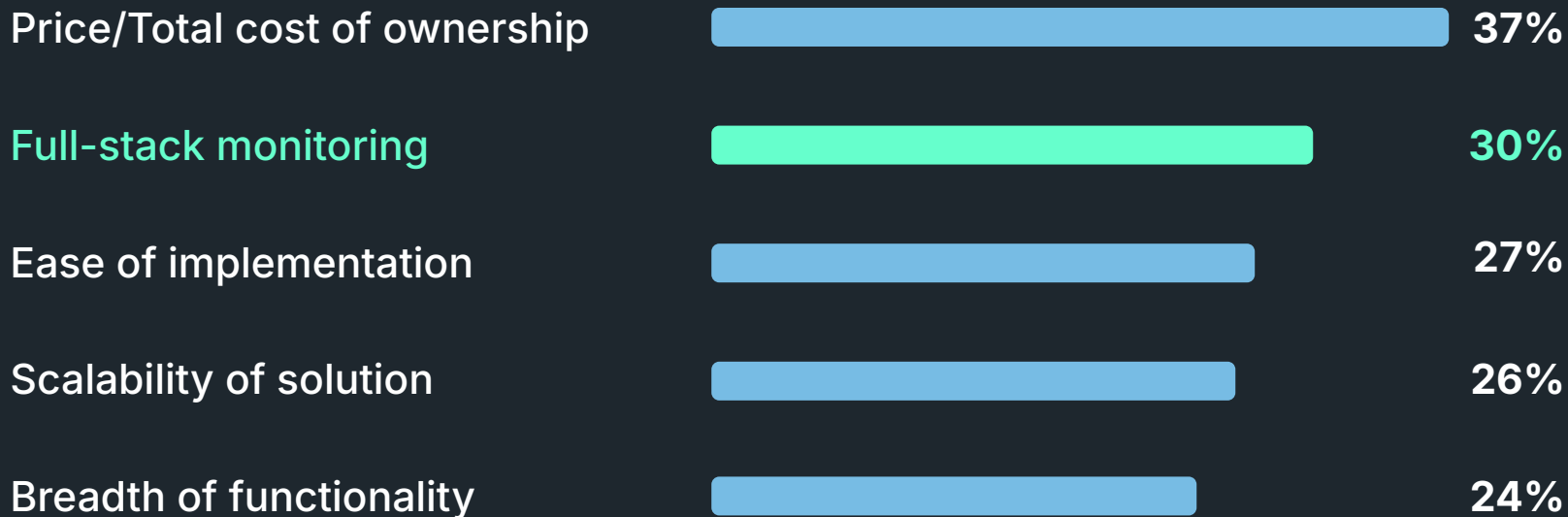


What makes Checkmk different?

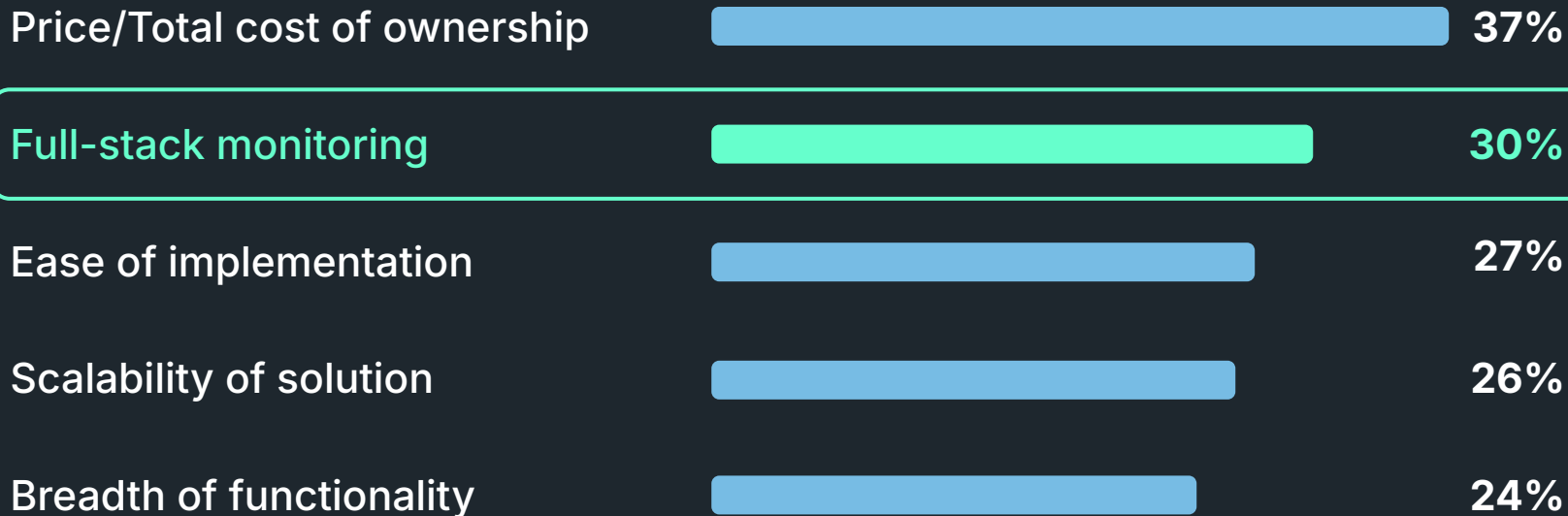


You **said** it.
We **heard** it.

You prioritized full-stack. So did we.



You prioritized full-stack. So did we.



Full-stack observability



Infrastructure

Application

Synthetic

Full-stack observability



Infrastructure

Application

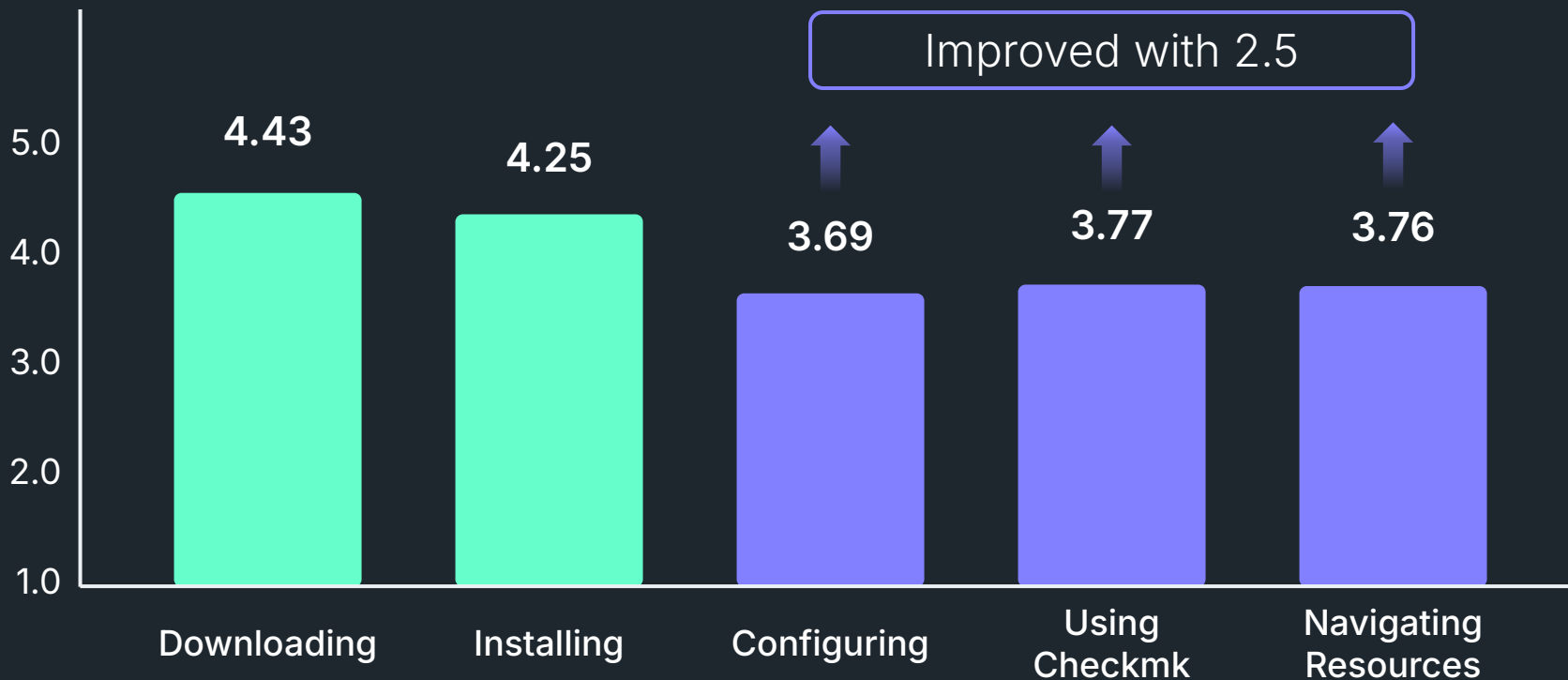
Synthetic

Faster

Easier

Even more
scalable

We looked at the usability of the platform



Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience

We looked at ways to improve troubleshooting



80%

of MTTR is spent
on diagnosis

We looked at ways to improve troubleshooting



80%

of MTTR is spent
on diagnosis



Explain with AI



One click root cause analysis



Gathers context across all services

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI

We looked at how you get insights from data



++ Total cost of ownership

+ Customizability

++ Ease of implementation

+ Scalability

 Positive

 Mostly positive

 Constructive

We looked at how you get insights from data



++ Total cost of ownership

+ Customizability

++ Ease of implementation

+ Scalability

Improved with 2.5

- **Visualization**

 Positive

 Mostly positive

 Constructive

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization

Making the platform even more scalable



Scalability

Making the platform even more scalable



Scalability

>25%

Checkmk customers
run 60k+ services

Making the platform even more scalable



Scalability

>25%

Checkmk customers
run 60k+ services



API versioning



New data backend



Relay



Azure & virtualization

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI

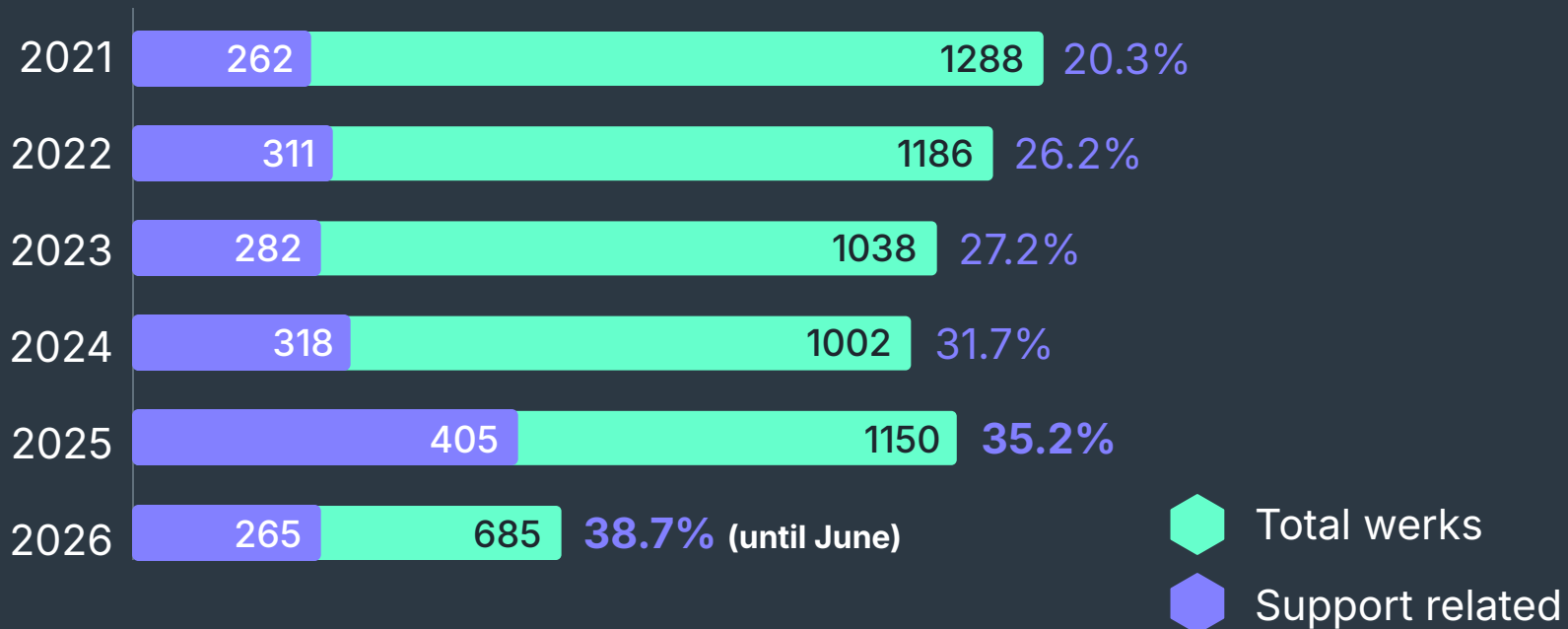


Advanced data analytics & visualization



A faster, more scalable platform

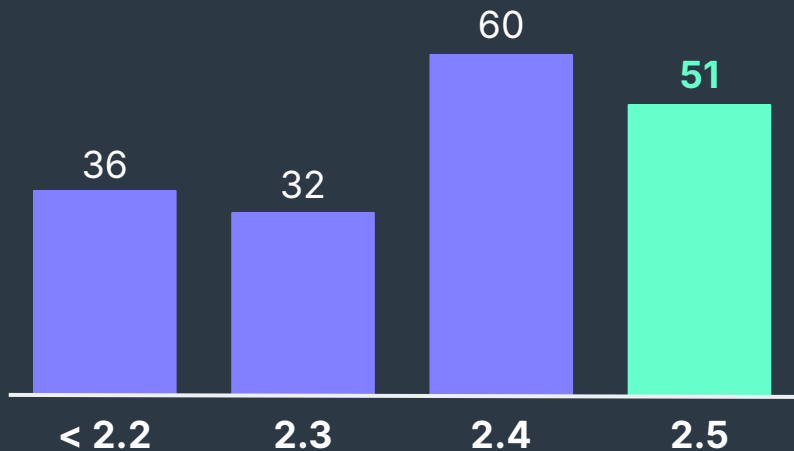
You asked, we delivered



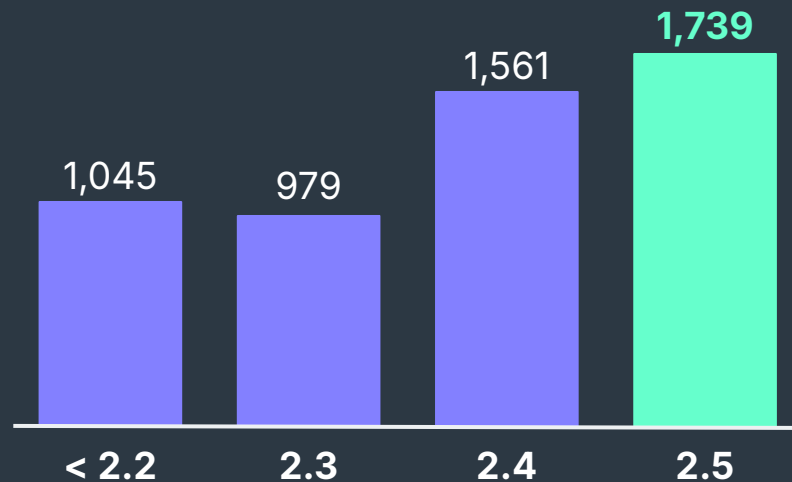
You asked, we delivered



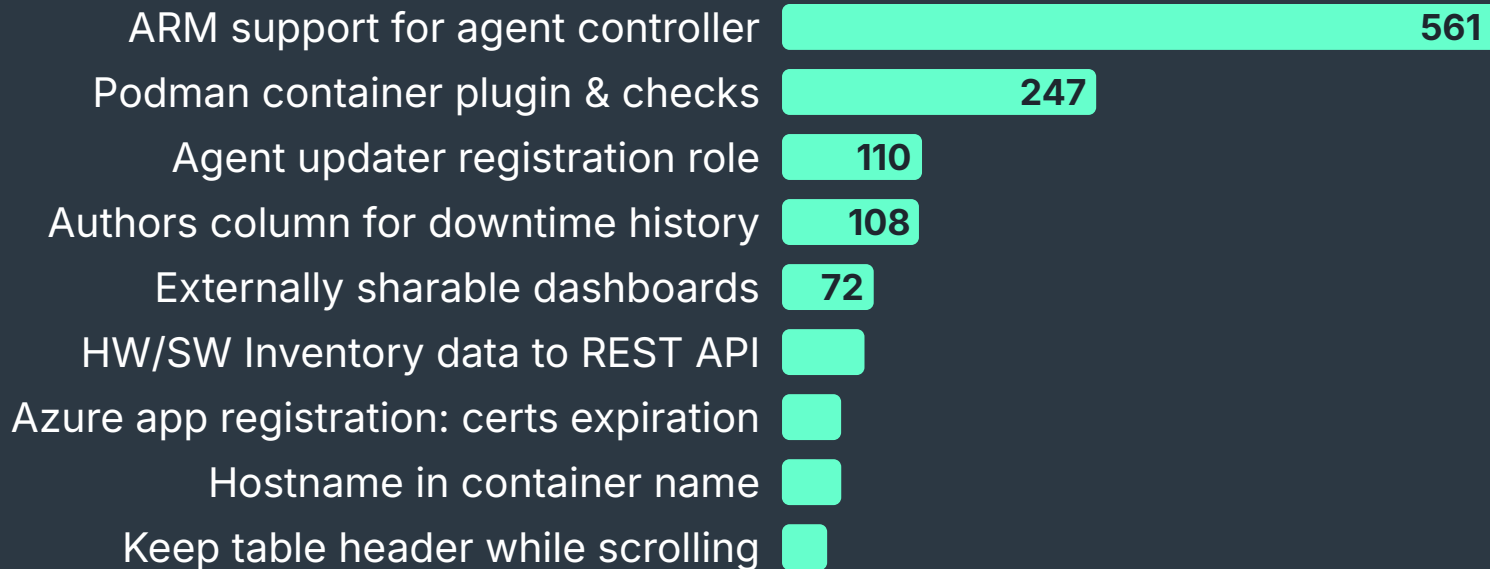
Ideas delivered per Checkmk release



Cumulative user upvotes addressed



You asked, we delivered





The new agent download
and registration
commands are **amazing!**

The old Checkmk lineup



Self-hosted

Raw

Enterprise

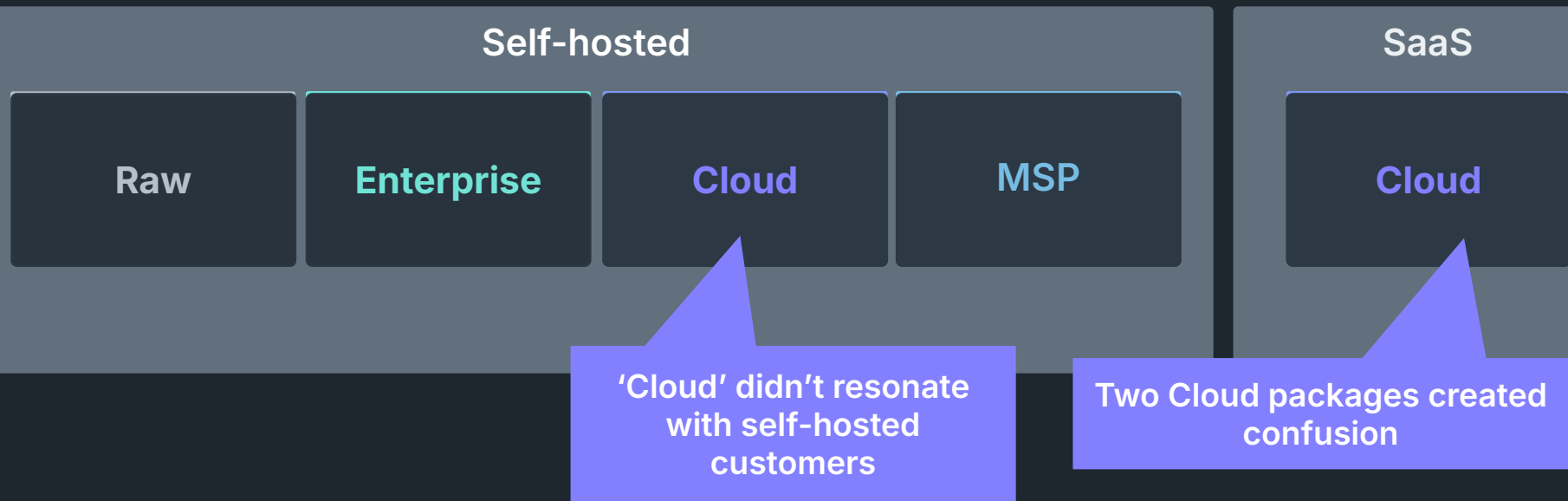
Cloud

MSP

SaaS

Cloud

The old Checkmk lineup



The old Checkmk lineup



'Enterprise' sounded like the highest tier

Self-hosted

SaaS

Raw

Enterprise

Cloud

MSP

Cloud

'Cloud' didn't resonate with self-hosted customers

Two Cloud packages created confusion

The old Checkmk lineup



'Enterprise' sounded like the highest tier

Self-hosted

Raw

Enterprise

Cloud

MSP

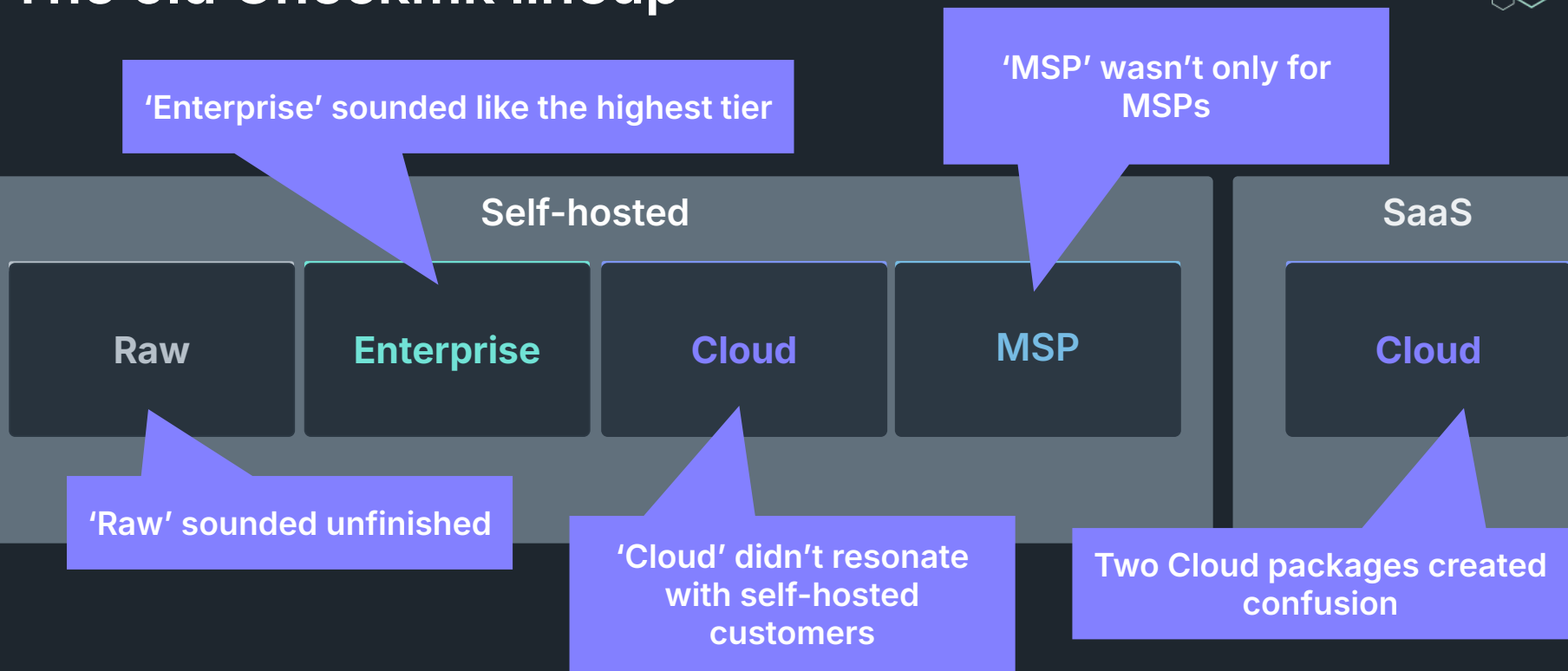
SaaS

Cloud

'Cloud' didn't resonate with self-hosted customers

Two Cloud packages created confusion

The old Checkmk lineup





2022

No SaaS product





Market research




Community surveys



1:1 interviews

 Market research

 Community surveys

 1:1 interviews

Self-Hosted

Previously Raw

Community

Previously Enterprise

Pro

*Previously Cloud
(Self-Hosted) + MSP*

Ultimate

SaaS

Prev. Cloud (SaaS)

Cloud^{AI}

Self-Hosted

SaaS

Community

Free and open source monitoring for small infrastructures.

✓ Infrastructure

Pro

Monitoring at speed and scale for data center infrastructures.

✓ Infrastructure
✓ Synthetic

Ultimate

Full stack observability for hybrid and cloud-native infrastructures.

✓ Infrastructure
✓ Application
✓ Synthetic

Cloud^{AI}

Full stack observability for hybrid and cloud-native infrastructures.

✓ Infrastructure
✓ Application

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✓ Infrastructure
✓ Application



Keep asking.
We will keep delivering.

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



A faster, more scalable platform



Anna

System Engineer

Sam

Support Engineer

Marco

Service Owner

The gap they share



	State	Service	Icons	Summary
Monitor	OK	Check_MK	📁	[agent] Success, [piggyback] Success (but no data found host), execution time 0.0 sec
Customize	OK	Check_MK Agent	☰	Version: 2.5.0-2026.04.03, OS: linux
	OK	Check_MK Discovery	📁	Services: all up to date, Host labels: all up to date, execu 0.0 sec
Setup	OK	CPU load	📁	15 min load: 0.53, 15 min load per core: 0.13 (4 cores)
	OK	CPU utilization	📁	Total CPU: 14.77%
Changes	OK	Disk IO SUMMARY	📁	Read: 2.25 MB/s, Write: 2.19 MB/s, Latency: 1 millisecond
	OK	Filesystem /	📁	Used: 35.02% - 7.00 GiB of 20.0 GiB, Not enough data to calculate trend
	OK	Filesystem /data	📁	Used: 61.00% - 30.5 GiB of 50.0 GiB, Not enough data to calculate trend
Help	OK	Interface 1	📁	[eth0], (up), MAC: 02:42:AC:11:00:0A, Speed: 1 GBit/s, In kB/s (0.11%), Out: 113 kB/s (0.09%)
User	OK	Job db-backup	📁	Latest exit code: 0, Real time: 48 seconds, Job age: 2 ho minutes
	OK	Job settlement-batch	📁	Latest exit code: 0, Real time: 4 minutes 13 seconds, Job hours 0 minutes
Sidebar	OK	Kernel Performance	📁	Process Creations: 11.22/s, Context Switches: 2811.47/s, Page Faults: 1.25/s
	OK	Memory	📁	Total virtual memory: 32.64% - 3.20 GiB of 9.81 GiB, 6 ac details available
	OK	Number of threads	📁	240

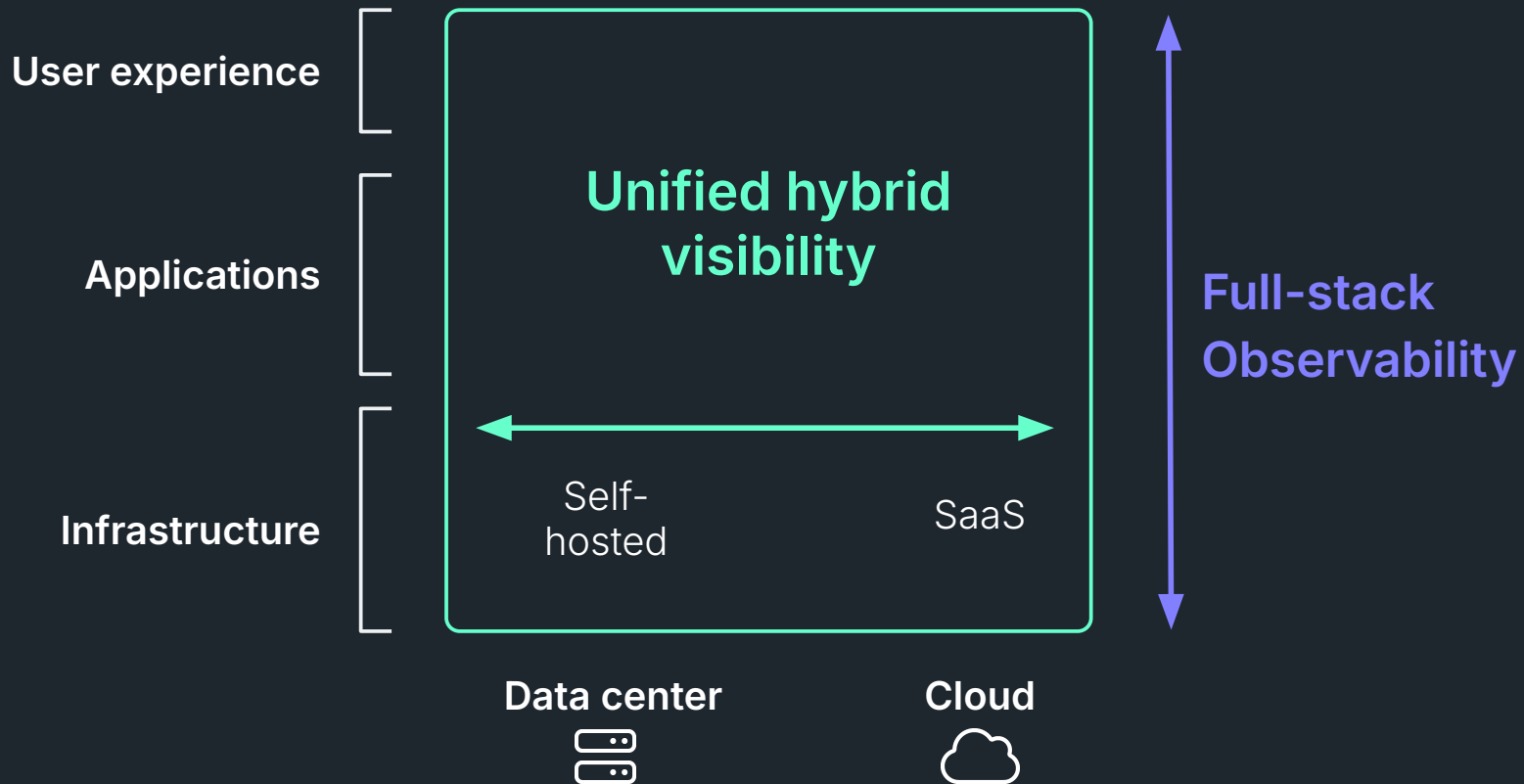
Sam



Anna



Marco





Built on OpenTelemetry.

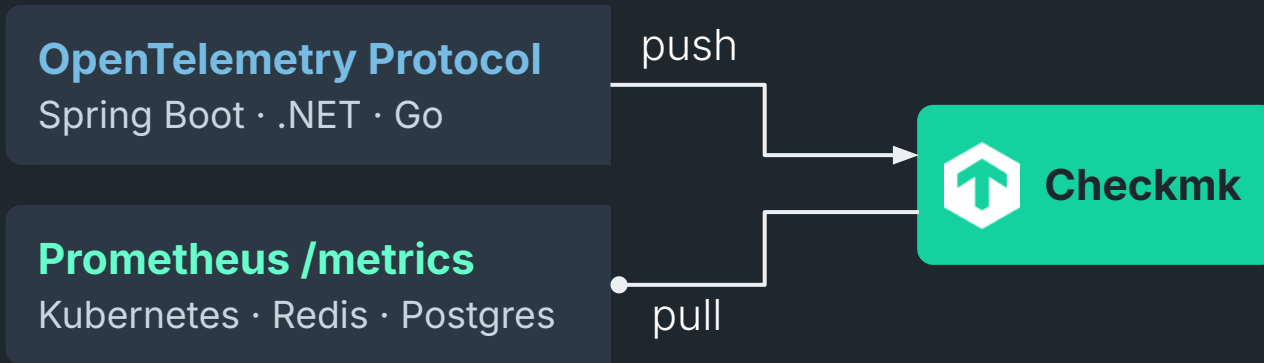
OpenTelemetry Protocol

Spring Boot · .NET · Go

Prometheus /metrics

Kubernetes · Redis · Postgres

Built on OpenTelemetry.



Powered by a new high-performance backend



ClickHouse

High-cardinality metrics. Speed at scale.

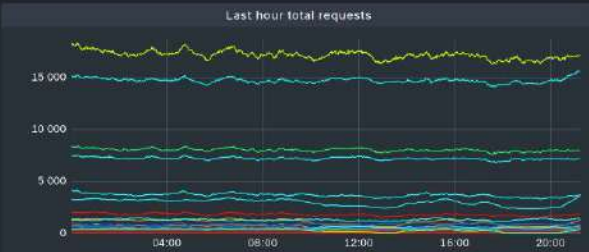
Marco the service owner

Filter

- Search
- Monitor
- Customize
- Setup
- OrbVis
- Changes

Astronomy shop: RED metrics			
Service	Requests	Errors	Duration
product-catalog	0.52 req/s	0 %	22.38 ms
quote	0.1 req/s	0 %	1.8 ms
flagd	0.21 req/s	0 %	4.5 ms
email	0.13 req/s	0 %	17.9 ms
otelcol-contrib	0.89 req/s	0 %	5 µs
frontend	2.07 req/s	0 %	65.64 ms
cart	0.35 req/s	0 %	22 µs
currency	0.12 req/s	0 %	20 ms
payment	0.07 req/s	0 %	1.8 ms
checkout	0.03 req/s	0 %	2.05 s
frontend-proxy	1.02 req/s	0 %	67.84 ms
image-provider	0.05 req/s	0 %	1.8 ms
product-reviews	0.1 req/s	0 %	32.4 ms
ad	0.05 req/s	0 %	4.5 ms
recommendation	0.1 req/s	0 %	20.27 ms
shipping	0.1 req/s	0 %	4.53 ms
accounting	0.1 req/s	0 %	5.03 s
fraud-detection	0.02 req/s	0 %	23.9 ms
load-generator	1.21 req/s	0 %	0.28 s

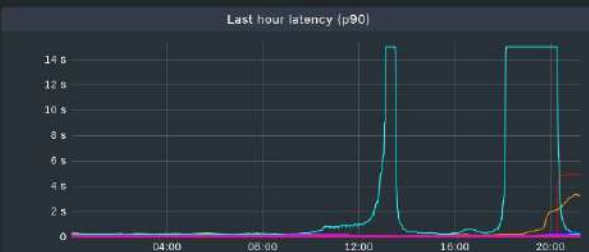
Top 5: Last hour total requests	
Host	Last hour total requests
frontend	17 071
otelcol-contrib	15 636
frontend-proxy	7 956
load-generator	7 152
product-catalog	3 674



Top 5: Last hour total errors	
Host	Last hour total errors
frontend	36
frontend-proxy	19
product-reviews	6
recommendation	6
fraud-detection	6



Top 5: Last hour latency (p90)	
Host	Last hour latency (p90)
accounting	4.95 s
checkout	3.28 s
load-generator	0.48 s
frontend-proxy	0.32 s
fraud-detection	0.28 s



Same app insights as in APM
RED signals

Service problems			
accounting	total requests: 3, Last hour error rate: 2.97% (warn/crit at 1.00%/2.00%)	CRIT	
checkout	total requests: 3, Last hour error rate: 2.97% (warn/crit at 1.00%/2.00%)	CRIT	
load-generator	total requests: 3, Last hour error rate: 2.97% (warn/crit at 1.00%/2.00%)	CRIT	
frontend-proxy	total requests: 3, Last hour error rate: 2.97% (warn/crit at 1.00%/2.00%)	CRIT	
fraud-detection	total requests: 3, Last hour error rate: 2.97% (warn/crit at 1.00%/2.00%)	CRIT	
fraud-detection	seconds, Last minute latency (p99): 5 seconds, Last minute latency (avg): 8 seconds, Last hour latency (p90): 5 seconds (warn/crit at 4 seconds/7 seconds)	WARN	
accounting	12179468288.00 By (warn/crit at 1.00 By/2.00 By)	CRIT	
fraud-detection	Last minute total errors: 0, Last minute error rate: 0%, Last minute total requests: 2, Last hour error rate: 1.53% (warn/crit at 1.00%/2.00%)	WARN	

- Help
- User
- Sidebar

Marco the service owner

Graph Display Help

Save Reset zoom Custom graphs

astronomy_transactions

2026-04-21 @ 1m



Formula

Query:

Metric(required)

Resource attributes

Scope attributes

Data point attributes

Aggregation lookback

Percentile (histograms)

app.payment.transactions ▲

app.

value ▼

app.

value ▼

app.ads.ad_requests

value ▼

app.cart.add_item.latency

s 0 Seconds ⓘ

app.cart.get_cart.latency

app.confirmation.counter

app.currency_counter

Same app insights as in APM

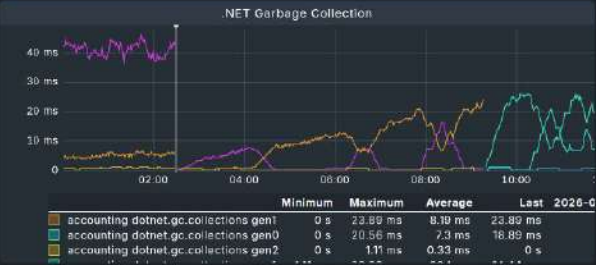
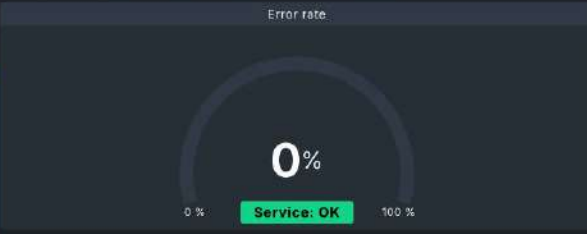
No-code metrics explorer

Graph lines (OpenTelemetry)

Anna namespace

astronomy-shop

Pod Name	Condition	Pod Info
accounting-845b6dd575-8crdv	SCHEDULED: True, READY TO START CONTAINERS: True, INITIALIZED: True, CONTAINERS READY: True, READY: True	Name: accounting-845b6dd575-8crdv, Node: I-Dd7cb370c8eaa6c9.eu-central-1.compute.internal, Namespace: astronomy-shop, Age: 5 days 21 hours, Controlled by: ReplicaSet/accounting-645b6dd575 <- Deployment/accounting
accounting-645b6dd575-8crdv	Container accounting	Status: Running for 10 hours 48 minutes, Image: ghcr.io/open-telemetry/demo:2.2.0-accounting, Restart count: 10
accounting-645b6dd575-8crdv	Info	Total: 10, In last hour: 0
accounting-845b6dd575-8crdv	Restarts	Running
accounting-645b6dd575-8crdv	Status	Up since 2026-05-08 15:41:12, Uptime: 6 days 21 hours
accounting-845b6dd575-8crdv	Uptime	



2.5 puts it back together
Infrastructure + Application



Application observability in 2.5

OpenTelemetry Collector

Ingests OTLP push and Prometheus scrape (no lock-in)

ClickHouse Backend

High-performance for high-cardinality app metrics

Built-in RED analytics

Rate · Errors · Duration

No-code Metrics Explorer

Easily explore data without writing complex queries

Correlated Infrastructure & App Metrics

Unified view for faster troubleshooting

Dive deeper:

The Missing Link: Bridging the Gap Between Infrastructure and Applications



Jörg Herbel & Sebastian Krahe
Engineering Manager & VP Product
Checkmk

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



A faster, more scalable platform

Anna's reality, and Checkmk's home turf

Racks, not serverless



`check_http`

`check_cert`



and much more ...



Filter

Sharing disabled | Share | Settings | Edit widgets



Tenants

State	Host	AD users	Azure agent info
UP	azure_checkmk	User accounts: 130	Usage client: Rate limit exceeded for Microsoft.CostManagement API. CRIT , Warnings: 0, Exceptions: 0

Subscriptions

State	Subscription name	Cost per day
UP	Dev Sandbox	36.65 €
UP	ITSD-1918-Subscription	0.99 €
UP	Temporary subscription jira_ITSD-53	

Local site stable

State	Host	OK	Wa	Un	Cr	Pd	Object
UP	azr_redis_rene-cache-redis_74349a40	10	0	0	0	0	Microsoft.Cache
UP	azr_vm_ccc-docs_8a37aa38	9	0	0	0	0	Microsoft.Compt
UP	azr_vm_chris-vm-testeventhub1_5c078a7b	10	0	0	0	0	Microsoft.Compt
UP	azr_vm_dashboard01_8a37aa38	5	0	0	0	0	Microsoft.Compt
UP	azr_vm_firewall-test-vm_c4676318	5	0	0	0	0	Microsoft.Compt
UP	azr_vm_vm1_4df912a5	10	0	0	0	0	Microsoft.Compt
UP	azr_mysql_logan-test_c71817a1	9	0	0	0	0	Microsoft.DBfor
UP	azr_psql_logan-test_bc294300	9	0	0	0	0	Microsoft.DBfor
UP	azr_cosmosdb_david-cosmos-account_DBTest_3f40ba0d	7	0	0	0	0	Microsoft.Docum
UP	azr_cosmosdb_david-cosmos-account_SampleDB_3f40ba0d	11	0	0	0	0	Microsoft.Docum
UP	azr_cosmos_david-cosmos-account_0dea7e2d	7	1	0	0	0	Microsoft.Docum
UP	azr_afw_rene_firewall_bf29cc3d	5	0	0	0	0	Microsoft.Netwo
UP	azr_afw_very-good-firewall_d70dc864	3	0	0	1	0	Microsoft.Netwo
UP	azr_lb_david-load-balancer_9d6d2625	3	0	0	1	0	Microsoft.Netwo
UP	azr_ng_relirod-test-gw_c38150c7	3	0	0	1	0	Microsoft.Netwo
UP	azr_ng_rene_nat_gateway_775ff20	6	0	0	0	0	Microsoft.Netwo
UP	azr_traf_anything12_94b3c9b6	5	0	0	1	0	Microsoft.Netwo
UP	azr_traf_kumaran_94b3c9b6	5	0	0	1	0	Microsoft.Netwo
UP	azr_vgw_vgw-hub-weu_d8484141	11	0	0	1	0	Microsoft.Netwo
UP	azr_rsv_vault1241_9f271c78	3	0	0	1	0	Microsoft.Recov
UP	azr_rsv_vault-test_6b784dd2	3	0	0	1	0	Microsoft.Recov
UP	azr_rg_cloud-shell-storage-westeuropa_7e5c59ab	5	0	0	0	0	Microsoft.Resou
UP	azr_rg_david-vm-test_group_cbd6cc93	6	0	0	0	0	Microsoft.Resou
UP	azr_rg_defaultresourcegroup-dewc_7e5c59ab	3	0	0	0	0	Microsoft.Resou
UP	azr_rg_defaultresourcegroup-dewc_cbd6cc93	3	0	0	0	0	Microsoft.Resou
UP	azr_m_defaultresourcegroup-weu_7e5c59ab	3	0	0	0	0	Microsoft.Recov

Service problems

State	Host	Service	Summary
CRIT	azure_checkmk	Azure/App Registration Secret checkmk-app1 - secret2-218e2a37	Secret expired: 47 days 9 hours ago
CRIT	azure_checkmk	Azure/App Registration Secret diana_mgraph_connect_test - very secret secret-56f3afda	Secret expired: 179 days 5 hours ago
CRIT	azure_checkmk	Azure/App Registration Secret KumarSP - mysecret-77c5d77c	Secret expired: 52 days 14 hours ago
CRIT	azure_checkmk	Azure/App Registration Secret my-check-mk-app - SECRET 548feda1	Secret expired: 89 days 6 hours ago
CRIT	azure_checkmk	Azure/App Registration Secret my-check-mk-app - SECRET	Secret expired: 117 days 6 hours ago

Multi-subscription ready
Redesigned Azure monitoring

tenant

tenant





State	Host	OK	Wa	Un	Cr	Pd	Resource group	Object
UP	azr_redis_rene-cache-redis_74349a40	10	0	0	0	0	temporary_tests	Microsoft
UP	azr_vm_lcce-docs_8a37aa38	9	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_vm_chris-vm-testeventhub1_5c076a7b	10	0	0	0	0	rg-consulting-weu	Microsoft
UP	azr_vm_dashboard01_8a37aa38	5	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_vm_vm1_4df9f2a5	10	0	0	0	0	temporary_tests	Microsoft
UP	azr_mysql_logan-test_c7f817a1	9	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_psql_logan-test_bc294300	9	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_afw_rene_firewall_bf29cc3d	5	0	0	0	0	temporary_tests	Microsoft
UP	azr_ng_relirod-test-gw_c38150c7	3	0	0	1	0	rg-dev-weu	Microsoft
UP	azr_ng_rene_nat_gateway_775ff720	6	0	0	0	0	temporary_tests	Microsoft
UP	azr_traf_anything12_94b3c9b6	5	0	0	1	0	rg-consulting-weu	Microsoft
UP	azr_traf_kumaran_94b3c9b6	5	0	0	1	0	rg-consulting-weu	Microsoft
UP	azr_vgw_vgw-hub-weu_d8484f41	11	0	0	1	0	rg-hub-network-weu	Microsoft
UP	azr_rsv_vault241_9f211c78	3	0	0	1	0	rg-consulting-weu	Microsoft
UP	azr_sqldb_marentz-db-server_marentz_db_aee5a95d	9	0	0	0	0	temporary_tests	Microsoft
UP	azr_sqldb_marentz-db-server_master_aee5a95d	7	0	0	0	0	temporary_tests	Microsoft
UP	azr_st_csb100320021c0944a65_792ee07f	6	0	0	1	0	cloud-shell-storage-west-europe	Microsoft
UP	azr_st_dashboardstorage01_86824be2	7	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_st_dashboardstorage02_86824be2	7	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_st_dashboardstorage03_86824be2	7	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_st_rgpmmweu8f2_86824be2	7	0	0	0	0	rg-pm-weu	Microsoft
UP	azr_app_anything12_05d9d2ae	4	0	0	1	0	rg-consulting-weu	Microsoft

State	Resource group	Costs
UP	cloud-shell-storage-west-europe	0.01 €
UP	defaultresourcegroup-dewc	
UP	defaultresourcegroup-weu	
UP	networkwatcherrg	
UP	rg-consulting-weu	1.50 €
UP	rg-dev-weu	1.04 €
UP	rg-hub-network-weu	11.25 €
UP	rg-packer-dev-weu	0.23 €
UP	rg-pm-weu	4.01 €
UP	rg-spokes-network-weu	
UP	temporary_tests	18.37 €

Host	Service	Service Costs per day
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.network	21.61 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.sql	8.12 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.compute	4.35 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.dbforsql	0.94 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.dbforpostgresql	0.46 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.cache	0.46 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.eventhub	0.31 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.insights	0.19 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.storage	0.01 €
azr_subscription_Dev_Sandbox_0721415e	Azure/Costs microsoft.operationalinsights	0 €

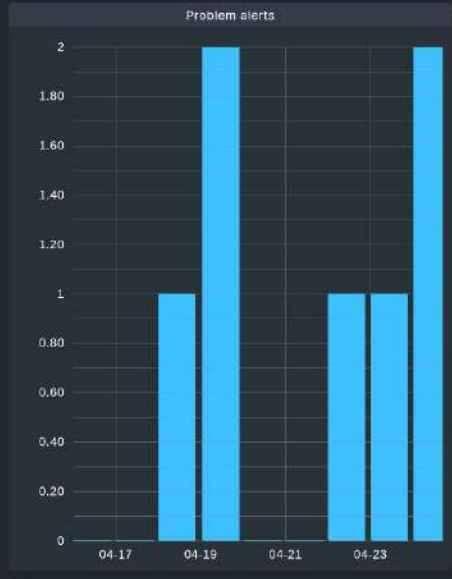
State	Host	Service	Summary
CRIT	azr_st_csb100320021c0944a65_792ee07f	Azure/Resource Health	We are currently unable to determine the health of this storage account. Issue: , Reason: , Occurred time: 2028-04-24 18:35:25 CRIT
CRIT	azr_traf_anything12_94b3c9b6	Azure/Traffic Mgr. Probe State	Probe state: not OK
CRIT	azr_traf_kumaran_94b3c9b6	Azure/Traffic Mgr. Probe State	Probe state: not OK
CRIT	azr_vgw_vgw-hub-weu_d8484f41	Azure/VNet Gateway	Site-to-site bandwidth: 0.00 B/s, Tunnel Ingress Bytes: 1B, Tunnel Egress Bytes: 1B, Tunnel Ingress Packet Drop Count: 1 (warn/crit at 1M) CRIT , Tunnel Egress Packet Drop Count: 1 (warn/crit at 1M) CRIT , Location: westeurope

Pre-built dashboards
Redesigned Azure monitoring

State	Host	Service	Summary	Dev Sandbox	rg-hub-network-weu	westeurope	Microsoft.Network/virtualNetworkGateways
CRIT	azr_st_csb100320021c0944a65_792ee07f	Azure/Resource Health	We are currently unable to determine the health of this storage account. Issue: , Reason: , Occurred time: 2028-04-24 18:35:25 CRIT				
CRIT	azr_traf_anything12_94b3c9b6	Azure/Traffic Mgr. Probe State	Probe state: not OK				
CRIT	azr_traf_kumaran_94b3c9b6	Azure/Traffic Mgr. Probe State	Probe state: not OK				
CRIT	azr_vgw_vgw-hub-weu_d8484f41	Azure/VNet Gateway	Site-to-site bandwidth: 0.00 B/s, Tunnel Ingress Bytes: 1B, Tunnel Egress Bytes: 1B, Tunnel Ingress Packet Drop Count: 1 (warn/crit at 1M) CRIT , Tunnel Egress Packet Drop Count: 1 (warn/crit at 1M) CRIT , Location: westeurope				



Hosts		OK	Wa	Un	Cr	Pd	Region	Object
UP	azr_vgw_vgw-hub-weu_d8484f41	11	0	0	1	0	westeurope	Microsoft.Network/virtualNe
UP	azr_rg_rg-hub-network-weu_7e5c59ab	5	0	0	0	0	westeurope	Microsoft.Resources/resourc



Top 10: Resource costs per day

Host	Service	Service Costs per Day
azr_rg_rg-hub-network-weu_7e5c59ab	Azure/Costs/microsoft.network	11.25 €

State	Host	Service	Summary
CRIT	azr_vgw_vgw-hub-weu_d8484f41	Azure/VNet Gateway	Site-to-site bandwidth: 0.00 B/s, Tunnel Ingress Bytes: 18, Tunnel Egress Bytes: 18 (warn/crit at 1/1) CRIT , Tunnel Egress Packet Drop Count: 1 (warn/crit at 1/1) CRIT , Location: westeurope

With drill-down capabilities
Redesigned Azure monitoring



100+ receivers

Built-in OTLP



100+ receivers

Built-in OTLP



1000+ exporters

Built-in /metrics



```
# TYPE node_cpu_seconds_total counter
node_cpu_seconds_total{cpu="0",mode="idle"} 91833.41
node_cpu_seconds_total{cpu="0",mode="iowait"} 612.07
node_cpu_seconds_total{cpu="0",mode="irq"} 0
node_cpu_seconds_total{cpu="0",mode="nice"} 3.12
node_cpu_seconds_total{cpu="0",mode="softirq"} 188.44
node_cpu_seconds_total{cpu="0",mode="steal"} 0
node_cpu_seconds_total{cpu="0",mode="system"} 2740.88
node_cpu_seconds_total{cpu="0",mode="user"} 8421.55
node_cpu_seconds_total{cpu="1",mode="idle"} 92544.92
node_cpu_seconds_total{cpu="1",mode="iowait"} 471.18
node_cpu_seconds_total{cpu="1",mode="irq"} 0
node_cpu_seconds_total{cpu="1",mode="nice"} 2.87
node_cpu_seconds_total{cpu="1",mode="softirq"} 142.63
node_cpu_seconds_total{cpu="1",mode="steal"} 0
node_cpu_seconds_total{cpu="1",mode="system"} 2611.36
node_cpu_seconds_total{cpu="1",mode="user"} 7980.21
node_cpu_seconds_total{cpu="2",mode="idle"}
```

```
# TYPE node_cpu_seconds_total counter
node_cpu_seconds_total{cpu="0",mode="idle"} 91833.41
node_cpu_seconds_total{cpu="0",mode="iowait"} 612.07
node_cpu_seconds_total{cpu="0",mode="irq"} 0
node_cpu_seconds_total{cpu="0",mode="nice"} 3.12
node_cpu_seconds_total{cpu="0",mode="softirq"} 188.44
node_cpu_seconds_total{cpu="0",mode="steal"} 0
node_cpu_seconds_total{cpu="0",mode="system"} 2740.88
node_cpu_seconds_total{cpu="0",mode="user"} 8421.55
node_cpu_seconds_total{cpu="1",mode="idle"} 92544.92
node_cpu_seconds_total{cpu="1",mode="iowait"} 471.18
node_cpu_seconds_total{cpu="1",mode="irq"} 0
node_cpu_seconds_total{cpu="1",mode="nice"} 2.87
node_cpu_seconds_total{cpu="1",mode="softirq"} 142.63
node_cpu_seconds_total{cpu="1",mode="steal"} 0
node_cpu_seconds_total{cpu="1",mode="system"} 2611.36
node_cpu_seconds_total{cpu="1",mode="user"} 7980.21
node_cpu_seconds_total{cpu="2",mode="idle"}
```

WARN APT Updates

OK Battery BAT1

OK CPU load

OK CPU utilization

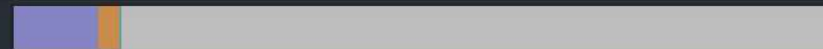
Total CPU: 5.97%

User: 4.79%

System: 1.16%

Wait: 0.01%

Total CPU: 5.97%



CPU utilization (User, system, IO wa



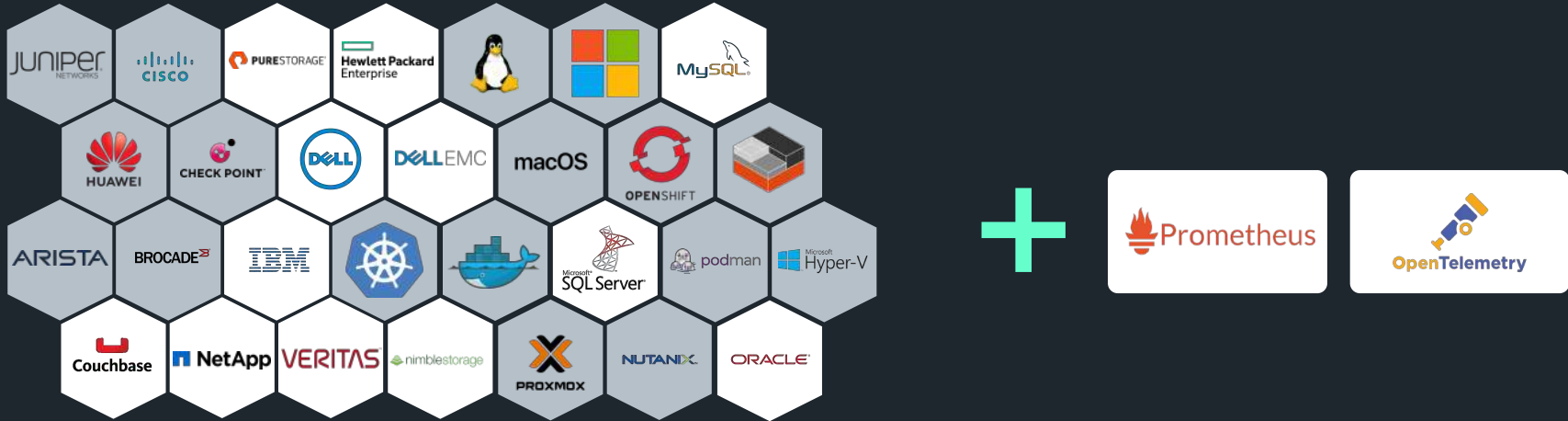
CPU utilization

I/O-wait

System

User

OpenTelemetry complements native plug-ins



Extends coverage. Doesn't replace native plug-ins

Monitoring at Scale: Azure, Containers, and Virtualization

Dive deeper:

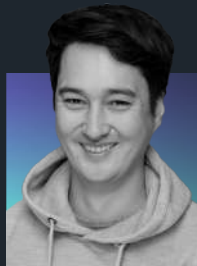


Mohamed Saleh
Product Manager
Checkmk



David Gervasoni
Team Lead
Checkmk

More on Infrastructure: Further Improvements



Martin Hirschvogel
Chief Product Officer
Checkmk

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



A faster, more scalable platform

Bridging the gap across test ecosystems



Monitoring



Test
Integration



Test
Execution



Bridging the gap across test ecosystems

Monitoring



Test Integration

Robotmk Bridge

Test Execution



Dive deeper:

Synthetic Monitoring: The Path to True Observability



Simon Meggle
Senior Product Manager
Checkmk

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



A faster, more scalable platform

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



A faster, more scalable platform

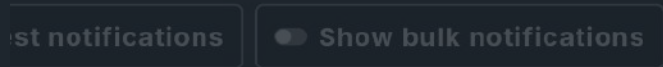


The symptom everyone recognises



> Events > [Notifications](#) > Events > [Analyze recent notifications](#)

Analyze recent notifications



Analysis: Recent notifications

Nr.	Time	Type	State	Host	Service	Plug-in output
-----	------	------	-------	------	---------	----------------



Two taxes you pay every day



 **Context-switch**

 **Late feedback**

Add host

Host Display Help

Basic settings

show more

Host name (required) not.resolvable.hostname

Cannot resolve DNS. Enter a DNS-resolvable host name, an IP address or set 'No IP' in the 'Network address' section.

Network address

show more

IP address family IPv4 only(Default value)
IPv4 address empty(Default value)

Monitoring agents

show more

Checkmk agent / API integrations API integrations if configured, else Checkmk agent(Default value)
Checkmk agent connection mode Pull: Checkmk server contacts the agent(Default value)
SNMP No SNMP(Default value)

Test agent connection

Custom attributes

Management board

In-line DNS check
Smooth workflows

Add host

Host Display Help

Basic settings

Host name (required) not.resolvable.hostname

Network address

IP address family IPv4 only(Default value)

IPv4 address 18.199.81.25

Successfully pinged IP address

Monitoring agents

Checkmk agent / API integrations API integrations if configured, else Checkmk agent(Default value)

Failed to connect to the Checkmk agent
 Error: Communication failed: [Errno 111] Connection refused

⚠ This can have different reasons. The Checkmk agent might not be installed, or communication may be blocked by firewall or network settings. If this host should be monitored via an agent, download and install the agent and check the connectivity. If not, you can ignore this message.

[Download Checkmk agent](#) [Re-test agent connection](#)

In-line connection test: ❌
Smooth workflows

Install Checkmk agent

Close & test connection View host agents

Select the type of system you want to monitor

Windows Linux Solaris AIX

RPM DEB TGZ

1 Save host

2 Download and install

Run this command on your Linux host to download and Install the Checkmk agent.

Successfully generated one-time token (Expires: 7/6/2026, 5:19:12 PM)

```
curl -o check-mk-agent_2.5.0p4-1_all.deb -fJG \
'https://play.checkmk.com/play/check_mk/api/internal/domain-types/agent/actions/download_by_host' \
--header 'Accept: application/octet-stream' \
--header 'Authorization: CMK-TOKEN 0:9e35886d-701f-4777-801e-249b4e4ecf04' \
--data-urlencode 'os_type=linux deb' \
--data-urlencode 'agent_type=host_name' \
--data-urlencode 'host_name=not.resolveable.host' && \
sudo dpkg -i check-mk-agent_2.5.0p4-1_all.deb
```

Next step: Register agent

Previous step

Token-based agent download
Smooth workflows

Install Checkmk agent

Close & test connection View host agents

Select the type of system you want to monitor

Windows Linux Solaris AIX

RPM DEB TGZ

- 1 Save host
- 2 Download and install
- 3 Register agent

Agent registration will establish trust between the Agent Controller on the host and the Agent Receiver on the Checkmk server.

Successfully generated one-time token (Expires: 6/13/2026, 5:20:25 PM)

After you have installed the agent, run this command on your Linux host to register the Checkmk agent controller.

```
sudo cmk-agent-ctl register \
  --hostname not.resolveable.host \
  --server play.checkmk.com:8000 \
  --site play \
  --ott 0:5bf9e4e0-aea0-47af-b9a8-80cfd6f43202
```

> Troubleshooting registration issues: Authenticate with the registration user

Token-based agent registration
Smooth workflows

Properties of host not.resolveable.host

Host Display Help [refresh] [refresh] [refresh] [refresh] [refresh]

✓ Successfully created the host. Now you should do a [service discovery](#) in order to auto-configure all services to be checked on this host.

Basic settings

show more

Host name not.resolveable.host

Network address

show more

IP address family IPv4 only(Default value)

IPv4 address

✓ Successfully pinged IP address

Monitoring agents

show more

Checkmk agent / API integrations API integrations if configured, else Checkmk agent(Default value)

✓ Successfully connected to agent. [Re-test agent connection](#) [gear]

Checkmk agent connection mode Pull: Checkmk server contacts the agent(Default value)

SNMP No SNMP(Default value)

Custom attributes

Management board

Creation / Locking

Created Created at: 2026-06-06 17:19:10

In-line connection test: ✓
Smooth workflows

Actions Host Settings Display Help

- Accept all
- Rescan
- Monitor undecided services
- Remove vanished services
- Properties of host pay01.prod.internal.mh.com

All data sources are OK

- [agent]: Success
- [piggyback]: Success (but no data found for this host)

All undecided services and new labels accepted. Monitoring is enabled.

Discovered host labels (8)

Status	Host labels
Active	cmk/check_mk_server:yes cmk/l3v4_topology:singlehomed cmk/l3v6_topology:singlehomed cmk/os_family:linux cmk/os_name:Ubuntu cmk/os_platform:ubuntu cmk/os_type:linux cmk/os_version:24.04

Monitored services (149)

State	Service	Summary
WARN	APT Updates	3 normal updates WARN , 0 security updates
OK	Check_MK Agent	Version: 2.5.0-2026.04.03, OS: linux, (details), Agent plug-Ins: 2, Local checks: 149
OK	CPU load	15 min load: 1.22, 15 min load per core: 0.40
OK	CPU utilization	15 min load: 1.22, 15 min load per core: 0.40
OK	Disk IO SUMMARY	15 min load: 1.22, 15 min load per core: 0.40
WARN	Filesystem /	Used: 37.96% - 625 MiB of 1.61 GiB, 1.61 GiB (w/ trend)
OK	Filesystem /boot	Used: 37.96% - 625 MiB of 1.61 GiB, 1.61 GiB (w/ trend)

Activate on the fly
Smooth workflows

- checkmk
- Search
- Monitor
- Customize
- Setup
- Changes 4
- Help
- User
- Sidebar

Actions Host Settings Display Help

- Accept all
- Rescan
- Monitor undecided services
- Remove vanished services
- Properties of host pay01.prod.internal.mh.com

All data sources are OK

- [agent]: Success
- [piggyback]: Success (but no data found for this host)

All undecided services and new labels accepted. Monitoring is enabled.

Discovered host labels (8)

Status	Host labels
Active	cmk/check_mk_server:yes cmk/l3v4_topology:singlehomed cmk/l3v6_topology:singlehomed cmk/os_family:linux cmk/os_name:Ubuntu cmk/os_platform:ubuntu cmk/os_type:linux cmk/os_version:24.04

Monitored services (149)

State	Service	Summary
WARN	APT Updates	3 normal updates WARN , 0 security updates
OK	Check_MK Agent	Version: 2.5.0-2026.04.03, OS: Linux, ...
OK	CPU load	15 min load: 2.64, 15 min load per core: ...
OK	CPU utilization	
OK	Disk IO SUMMARY	
WARN	Filesystem /	
OK	Filesystem /boot	Counter '/boot.delta' has been initializ...

Activate on the fly
Smooth workflows

- checkmk
- Search
- Monitor
- Customize
- Setup
- Changes
- Help
- User
- Sidebar

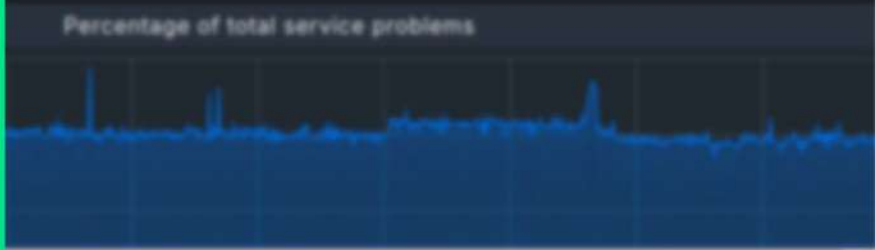
- checkmk
- Search
- Monitor
- Customize
- Setup
- Changes
- Help
- User
- Sidebar

not.re

- All
- Monitoring
- Customize
- Setup

Results (2) Press ↵ to trigger host/service search

- Hosts (1)
 - not.resolveable.host [Edit](#)
- Hostalias (1)
 - not.resolveable.host



One search to rule them all
Global search



It never leaves him wondering

Checkmk 2.4

checkmk

Monitor

Customize

Setup

Help

Hosts

Add host

Setup > Hosts > Main > network > Add host

No pending changes

Host Display Help

Save & run service discovery Save & view folder Save & run connection tests network

Basic settings show more

Host name (required) switch-ug

Network address show more

IP address family IPv4 only (Default value)

IPv4 address empty (Default value)

Monitoring agents show more

Checkmk agent / API integrations ... No API integrations, no Checkmk agent (Inherited from [network](#))

SNMP SNMP v2 or v3 (Inherited from [network](#))

SNMP credentials ***** (Inherited from [network](#))

Custom attributes

Management board



It never leaves him wondering

Setup > Hosts > Main > local > Add host

Add host

Host Display Help

Save & run service discovery Save & view folder Save & run connection tests local

Basic settings

Host name (required) pay01.prod.internal.mh.com Name is DNS-resolvable

Network address

IP address family IPv4 only(Default value)

IPv4 address empty(Default value)

Monitoring agents

Checkmk agent / API integrations API integrations if configured, else Checkmk agent(Default value) Test agent connection

Checkmk agent connection mode Pull: Checkmk server contacts the agent(Default value)

SNMP No SNMP(Default value)

> Custom attributes



From many tabs down to one tab

Checkmk Local site prod - x +

Setup > Events > Notifications > Events > Analyze recent notifications

Analyze recent notifications

Analyze recent notifications Related Display Help Find on this page ...

Search

Monitor

Test notifications Show bulk notifications

Analysis: Recent notifications

Nr.	Time	Type	State	Host	Service	Plt
1	2022-02-01 10:17:10	PROBLEM	Warning		HTTP	Off

Best-in-class UX



In-line host validation

DNS · ping · agent connection test
(caught at the source)



Guided agent installation

Download + registration,
token-based, one command each



Activate on the fly

Slide-out interface, never leave
your current page



Global search

Seamless search across Monitoring
+ Setup



Honest UI

Progress indicators, skeleton
loading, actionable errors

Dive deeper:

Core Workflows Refined: Navigate Comfortably in Checkmk



Tanja Heyken
Head of Product & UX
Checkmk

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



A faster, more scalable platform



Just another false alert?
AI-driven root-cause analysis

Commands Host Services Export Display Help

ip-10-0-6-224

State	Service	Icons	Summary			
OK	PostgreSQL Locks MAIN/postgres	☰ 📁 ➕	Access Share Locks 0, Exclusive Locks 0	11 h	9.67 s	
OK	PostgreSQL Process Count	☰ ➕	1	11 h	9.68 s	
OK	PostgreSQL Query Duration MAIN/payments	☰ ➕	Longest query: 3 seconds, Client: 10.1.2.41, PID: 2204, Query: SELECT id, status FROM orders WHERE created_at > now() - interval '5 minutes'	11 h	9.68 s	
OK	PostgreSQL Query Duration MAIN/postgres	☰ ➕	Longest query: 0 seconds, PID: 812, Query: SELECT 1	11 h	9.68 s	
OK	PostgreSQL VACUUM MAIN/payments	☰ ➕	Table: audit_log, Not vacuumed for: 1 day 6 hours, No never checked tables	11 h	9.68 s	
OK	PostgreSQL VACUUM MAIN/postgres	☰ ➕	No never checked tables	11 h	9.68 s	
OK	SMART INTEL SSDSC2KB240G8 PHYF034700AB240A Stats	☰ 📁 ➕	Reallocated sectors: 0, Powered on: 2 years 157 days, Power cycles: 41, Uncorrectable errors: 0, Pending sectors: 0, UDMA CRC errors: 0	11 h	9.68 s	2 y 157 d
OK	SMART SAMSUNG MZ7L3480HCHQ-00A07 S6KSNE0T502244 Stats	☰ 📁 ➕	Reallocated sectors: 0, Powered on: 3 years 125 days, Power cycles: 41, Uncorrectable errors: 0, Pending sectors: 0, UDMA CRC errors: 0	11 h	9.68 s	3 y 126 d
OK	Systemd Service Summary	☰ ➕	Total: 31, Disabled: 0, Failed: 0	11 h	9.68 s	
OK	Systemd Socket Summary	☰ ➕	Total: 0, Disabled: 0, Failed: 0	11 h	9.68 s	
OK	Systemd Timesyncd Time	☰ 📁 ➕	Offset: 394 microseconds, Time since last sync: 9 minutes 50 seconds, Time since last NTPMessage: 9 minutes 50 seconds, Stratum: 2.00, Jitter: 2 milliseconds, Synchronized on 185.125.190.56	11 h	9.68 s	0.39 ms
OK	TCP Connections	☰ 📁 ➕	Established: 42	11 h	9.69 s	42
OK	Temperature SMART INTEL SSDSC2KB240G8 PHYF034700AB240A	☰ 📁 ➕	Temperature: 28 °C	11 h	9.69 s	28 °C
WARN	Temperature SMART SAMSUNG MZ7L3480HCHQ-00A07 S6KSNE0T502244	☰ 📁 ➕	Temperature: 36 °C (warn/crit at 35.0 °C/40.0 °C) WARN	69 s	9.69 s	36 °C
OK	Uptime	☰ 📁 ➕	Up since 2026-05-25 23:01:42, Uptime: 12 days 11 hours	11 h	9.69 s	12 d



Search



Monitor



Customize



Setup



Changes



Help



User



Admin



Sidebar

Everything else looks alright
AI-driven root-cause analysis

ip-10-0-6-224

State	Service	Icons	Summary	Age	Checked	Perf-O-Meter
OK	Check_MK	☰ 🏠 ✨	[push-agent] Success, [piggyback] Success (but no data found for this host), execution time 0.0 sec	94 m	39.9 s	10 ms
OK	Check_MK Agent	☰ ✨	Version: 2.5.0-2026.04.03, OS: linux, Agent plug-ins: 2, Local checks: 0	11 h	39.9 s	
OK	Check_MK Discovery	☰ 🏠 ✨	Services: all up to date, Host labels: all up to date, execution time 0.0 sec	11 h	78 m	20 ms
OK	APT Updates	☰ 🏠 ✨	No updates pending for installation	11 h	39.9 s	0 / 0
OK	CPU load	☰ 🏠 ✨	15 min load: 0.88, 15 min load per core: 0.22 (4 cores)	11 h	39.9 s	0.84
OK	CPU utilization	☰ 🏠 ✨	Total CPU: 24.61%	11 h	39.9 s	24.61 %
OK	Disk IO SUMMARY	☰ 🏠 ✨	Read: 1.63 MB/s, Write: 6.50 MB/s, Latency: 781 microseconds	11 h	39.9 s	1.55 MiB/s / 6.2 MiB/s
OK	Filesystem /	☰ 🏠 ✨	Used: 37.30% - 14.9 GiB of 40.0 GiB, Not enough data to calculate trend	11 h	39.9 s	37.3 %
OK	Filesystem /var/lib/postgresql	☰ 🏠 ✨	Used: 27.53% - 123 GiB of 447 GiB, Not enough data to calculate trend	11 h	40.0 s	27.53 %
OK	Interface 1	☰ 🏠 ✨	[eth0], (up), MAC: 02:42:AC:11:00:1C, Speed: 10 GBit/s, In: 481 kB/s (0.04%), Out: 376 kB/s (0.03%)	11 h	40.0 s	3.85 Mbit/s / 3.01 Mbit/s
OK	Job pg-basebackup	☰ 🏠 ✨	Latest exit code: 0, Real time: 12 minutes 41 seconds, Job age: 7 hours 0 minutes	11 h	40.0 s	12 min 41 s
OK	Job vacuum-analyze	☰ 🏠 ✨	Latest exit code: 0, Real time: 6 minutes 2 seconds, Job age: 5 hours 0 minutes	11 h	40.0 s	6 min 2 s
OK	Kernel Performance	☰ 🏠 ✨	Process Creations: 5.73/s, Context Switches: 2244.98/s, Major Page Faults: 0.95/s	11 h	40.0 s	0.95/s
OK	Memory	☰ 🏠 ✨	Total virtual memory: 28.36% - 5.57 GiB of 19.6 GiB, 9 additional details available	11 h	40.0 s	35.62 %
OK	Mount options of /	☰ ✨	Mount options exactly as expected	11 h	40.0 s	
OK	Mount options of /var/lib/postgresql	☰ ✨	Mount options exactly as expected	11 h	40.0 s	
OK	Number of threads	☰ 🏠 ✨	396	11 h	40.0 s	396

CPU load ↑. What happened?
AI-driven root-cause analysis

ip-10-0-6-224

State	Service	Icons	Summary	Age	Checked	Perf-O-Meter
OK	Check_MK	☰ 🏠 ➡	[push-agent] Success, [piggyback] Success (but no data found for this host), execution time 0.0 sec	113 m	2.34 s	10 ms
OK	Check_MK Agent	☰ 🏠 ➡	Version: 2.5.0-2026.04.03, OS: linux, Agent plug-ins: 2, Local checks: 0	11 h	2.34 s	
OK	Check_MK Discovery	☰ 🏠 ➡	Services: all up to date, Host labels: all up to date, execution time 0.0 sec	11 h	96 m	20 ms
OK	APT Updates	☰ 🏠 ➡	No updates pending for installation	11 h	2.34 s	0 / 0
WARN	CPU load	☰ 🏠 ➡	15 min load: 21.27 (warn/crit at 20.00/40.00) WARN , 15 min load per core: 5.32 (4 cores)	2.35 s	2.35 s	45.06
OK	CPU utilization	☰ 🏠 ➡	Total CPU: 77.12%	11 h	2.35 s	77.12 %
OK	Disk IO SUMMARY	☰ 🏠 ➡	Read: 2.13 MB/s, Write: 2.10 MB/s, Latency: 5 milliseconds	11 h	2.35 s	2.03 MiB/s / 2.0004 MiB/s
OK	Filesystem /	☰ 🏠 ➡	Used: 37.32% - 14.9 GiB of 40.0 GiB, Not enough data to calculate trend	11 h	2.35 s	37.32 %
OK	Filesystem /var/lib/postgresql	☰ 🏠 ➡	Used: 27.75% - 124 GiB of 447 GiB, Not enough data to calculate trend	11 h	2.35 s	27.75 %
OK	Interface 1	☰ 🏠 ➡	[eth0], (up), MAC: 02:42:AC:11:00:1C, Speed: 10 GBit/s, In: 511 kB/s (0.04%), Out: 380 kB/s (0.03%)	11 h	2.35 s	4.08 Mbit/s / 3.04 Mbit/s
OK	Job pg-basebackup	☰ 🏠 ➡	Latest exit code: 0, Real time: 12 minutes 41 seconds, Job age: 7 hours 0 minutes	11 h	2.35 s	12 min 41 s
OK	Job vacuum-analyze	☰ 🏠 ➡	Latest exit code: 0, Real time: 6 minutes 2 seconds, Job age: 5 hours 0 minutes	11 h	2.36 s	6 min 2 s
OK	Kernel Performance	☰ 🏠 ➡	Process Creations: 7.25/s, Context Switches: 2682.65/s, Major Page Faults: 0.90/s	11 h	2.36 s	0.9/s
OK	Memory	☰ 🏠 ➡	Total virtual memory: 30.36% - 5.96 GiB of 19.6 GiB, 9 additional details available	11 h	2.36 s	38.14 %
OK	Mount options of /	☰ 🏠 ➡	Mount options exactly as expected	11 h	2.36 s	
OK	Mount options of /var/lib/postgresql	☰ 🏠 ➡	Mount options exactly as expected	11 h	2.37 s	
OK	Number of threads	☰ 🏠 ➡	586	11 h	2.37 s	586

checkmk

Search

Monitor

Customize

Setup

Changes

Help

User

Admin

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Services of host ip-10-0-0-224

Commands Host Services Expert Display Help

ip-10-0-0-224

State	Service	Icons	Summary
OK	Check_MK		Service available
OK	Check_MK Agent		Version 7.10.0
OK	Check_MK Discovery		Service available
OK	APT Updates		No updates available
WARN	CPU load		15 min load average: 21.27
OK	CPU utilization		Total CPU utilization: 48.72%
OK	Disk IO Subsystem		Read: 100 MB/s, Write: 100 MB/s
OK	Filesystem /		Used: 100 MB
OK	Filesystem /var/lib/postgresql		Used: 100 MB
OK	Interface eth0		Link: Up, Speed: 10000 Mbps
OK	Job pg-basebackup		Last: 10 min ago
OK	Job vacuum-analyze		Last: 10 min ago
OK	Kernel Performance		Process: 0.00%
OK	Memory		Total: 16 GB, Available: 8 GB
OK	Mount options of /		Mount: OK
OK	Mount options of /var/lib/postgresql		Mount: OK
OK	Number of threads		500

Explain with AI

Host

UP

CPU load ↑. What happened?
 AI-driven root-cause analysis

AI-generated answer
 Please review to ensure factual correctness.

SUMMARY

The service **CPU load** is in a **WARN** state, as the 15-minute load average of 21.27 has exceeded the warning threshold of 20.00. This high load is not from computational demand but from a severe I/O bottleneck, evidenced by the **CPU utilization** service reporting that CPUs are spending 62.86% of their time in an **I/O Wait** state. Corroborating data from the PostgreSQL services points to a long-running query (163 seconds) and high disk I/O activity as the likely cause, with a secondary effect of an elevated SSD temperature also in a **WARN** state.

METRIC	VALUE	STATUS
15 min load average	21.27	WARN
CPU I/O Wait	62.86%	
Disk IO Utilization	48.72%	
Longest PG Query	163 s	
SSD Temperature	38 °C	WARN

Confidence: High

SERVICE CONTEXT

This feature uses gemini-2.5-pro by Agent Platform. The generated output can contain errors or inaccuracies and must be carefully reviewed by a human for factual correctness. [Documentation](#) and [Privacy Policy](#)



checkmk



Search



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Explain with AI



Host
UP

CPU load ↑. What happened?

AI-driven root-cause analysis

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15 min load average	21.27	WARN
CPU I/O Wait	62.86%	
Disk IO Utilization	48.72%	
Longest PG Query	163 s	
SSD Temperature	38 °C	WARN

Confidence: **High**

arning
I/O Wait
and high
WARN

CPU load ↑. What happened?
AI-driven root-cause analysis

Host
UP

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15 min load average	21.27	WARN
CPU I/O Wait	62.86%	
Disk IO Utilization	48.72%	
Longest PG Query	163 s	
SSD Temperature	38 °C	WARN

Confidence: High

- checkmk
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- Help
- User
- Admin
- Sidebar

arning
I/O Wait
and high
WARN



Service graphs Disk IO SUMMARY, ip-10-0-6-224



Search



Monitor



Customize



Setup



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User



Admin



Sidebar

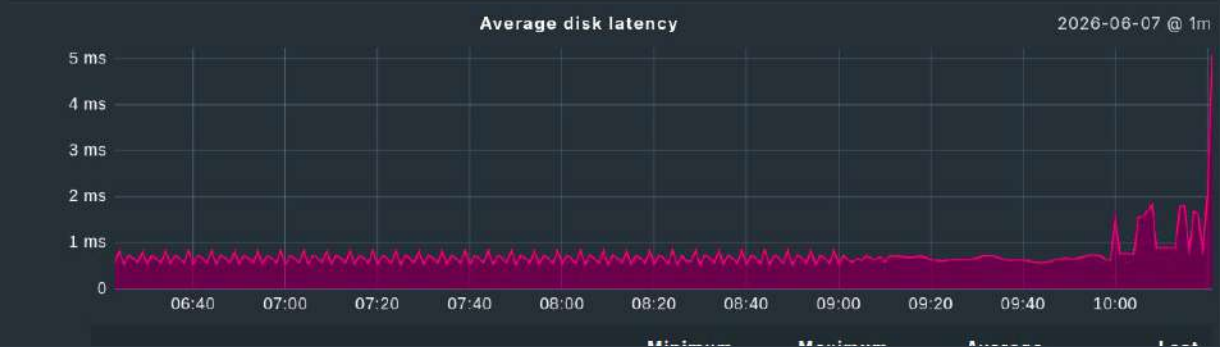
Commands Service Host Export Display Help

Local site aitest, ip-10-0-6-224, Disk IO SUMMARY

CPU load ↑. It's an I/O issue!
AI-driven root-cause analysis



- The last 4 hours
- The last 25 hours
- The last 8 days
- The last 35 days
- The last 400 days



- The last 4 hours
- The last 25 hours
- The last 8 days
- The last 35 days

checkmk

Services of host ip-10-0-6-224

Commands Host Services Expert Display Help

ip-10-0-6-224

State	Service	Icons	Summary
OK	Check_MK	🟡 ➔	South America
OK	Check_MK Agent	🟡 ➔	Version
OK	Check_MK Discovery	🟡 ➔	Service
OK	APT Updates	🟡 ➔	No updates
CRIT	CPU load	🟡 ➔	15 min load average of 44.92 far exceeding the critical threshold of 40.00.
OK	CPU utilization	🟡 ➔	Total CPU usage
OK	Disk IO Subsystem	🟡 ➔	Read and write I/O
OK	Filesystem /	🟡 ➔	Used space
OK	Filesystem /var/lib/postgresql	🟡 ➔	Used space
OK	Interface 1	🟡 ➔	Interface status
OK	Job pg-basebackup	🟡 ➔	Latest successful backup
OK	Job vacuum-analyze	🟡 ➔	Latest successful vacuum
OK	Kernel Performance	🟡 ➔	Process and system calls
OK	Memory	🟡 ➔	Total available memory
OK	Mount options of /	🟡 ➔	Mount options
OK	Mount options of /var/lib/postgresql	🟡 ➔	Mount options
OK	Number of threads	🟡 ➔	812

checkmk sidebar menu: Search, Monitor, Customize, Setup, Changes, Help, User, Admin, Sidebar

Explain with AI

Host **UP**

CPU load ↑. Is it the disk?
AI-driven root-cause analysis

AI-generated answer
Please review to ensure factual correctness.

SUMMARY

The service **CPU load** is in a **CRIT** state, with the 15-minute load average of 44.92 far exceeding the critical threshold of 40.00. This is a symptom of a severe I/O bottleneck, not a CPU-bound workload, as the **CPU utilization** service reports nearly 80% **CPU Wait**. The issue is strongly correlated with a failing Samsung disk, which is reporting **CRIT SMART** errors and is the source of high disk latency and a long-running PostgreSQL query.

METRIC	VALUE	STATUS
CPU load (15 min)	44.92	CRIT
CPU Wait	79.99%	
Disk Average Wait	87 ms	
SMART Pending Sectors	6	CRIT
Longest DB Query	943 s	

Confidence: **High**

SERVICE CONTEXT

- The service:** CPU load monitoring tracks the system load average, which represents the number of

This feature uses gemini-2.5-pro by Agent Platform. The generated output can contain errors or inaccuracies and must be carefully reviewed by a human for factual correctness. [Documentation](#) and [Privacy Policy](#)

CPU load ↑. Is it the disk?
AI-driven root-cause analysis

Host
UP

- checkmk
- Search
- Monitor
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- Setup
- Change
- Help
- User
- Admin
- Sidebar

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he critical
he CPU
msung disk,
ostgreSQL

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SMART Pending Sectors	6	CRIT
Longest DB Query	943 s	

Confidence: **High**

umber of
carefully

checkmk

Sam the support engineer

Services of host ip-10-0-0-224

Commands Host Services Export Display Help

ip-10-0-0-224

State Service Name Status

UP Check_MK

✦✦ Explain with AI

CPU load ↑. Is it the disk?
AI-driven root-cause analysis

Host

UP

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- Setup
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checkmk

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Services of host ip-10-0-0-224

Commands Host Services Expert Display Help

ip-10-0-0-224

State	Service	Icons	Current
OK	Check_MK	🟡 🔄	South America
OK	Check_MK Agent	🟡 🔄	Version
OK	Check_MK Discovery	🟡 🔄	Service
OK	APT Updates	🟡 🔄	No up
CRIT	CPU load	🟡 🔄	16 min 14 sec
OK	CPU utilization	🟡 🔄	Total
OK	Disk IO Subsystem	🟡 🔄	Read
OK	Filesystem /	🟡 🔄	Used
OK	Filesystem /var/lib/postgresql	🟡 🔄	Used
OK	Interface 1	🟡 🔄	Setbit Out. 3
OK	Job pg-backup	🟡 🔄	Latest run
OK	Job vacuum-analyze	🟡 🔄	Latest run
OK	Kernel Performance	🟡 🔄	Process 0.822
OK	Memory	🟡 🔄	Total avail
OK	Mount options of /	🟡 🔄	Mount
OK	Mount options of /var/lib/postgresql	🟡 🔄	Mount
OK	Number of threads	🟡 🔄	812

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✦ Explain with AI

CPU load ↑. Is it the disk?
AI-driven root-cause analysis

query.

METRIC

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Disk Average Wait	87 ms
SMART Pending Sectors	6 CRIT
Longest DB Query	943 s

Confidence: **High**

SERVICE CONTEXT

- **The service:** CPU load monitoring tracks the system load average, which represents the number of processes running on the CPU plus those waiting in the queue for CPU time. It is a key indicator of overall system business and responsiveness.
- **The failure:** A critically high CPU load indicates the system is overloaded and cannot keep up with demand, leading to slow application performance, unresponsiveness, and potential timeouts for user-facing and internal processes.

RECOMMENDED ACTIONS

1. **Investigate failing disk:** The Samsung SSD is reporting critical SMART errors (pending and uncorrectable sectors) and is the likely cause of the I/O wait; plan for its immediate replacement.
2. **Analyze slow query:** A PostgreSQL query has been running for over 940 seconds, contributing significantly to the high I/O and load; investigate if this query can be optimized or terminated to provide immediate relief.
3. **Relocate critical data:** If possible, migrate data and I/O-intensive workloads off the failing Samsung disk to healthy storage to restore system performance.



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Services on host ip-10-0-0-224

Commands Host Services Export Display Help

ip-10-0-0-224

Check_MK

✦ Explain with AI

CPU load ↑. Is it the disk?
AI-driven root-cause analysis

query.

METRIC

CPU load (15 min)

CPU Wait

79.99%

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checkmk Sam the support engineer

Services on host ip-10-0-8-224

Commands Host Services Export Display Help

ip-10-0-8-224

Check_MK

✦ Explain with AI

CPU load ↑. Is it the disk?
AI-driven root-cause analysis

query.

METRIC

CPU load (15 m)

CPU Wait

79.99%

SERVICE CONTEXT

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CPU load ↑. It's the disk!
AI-driven root-cause analysis

Commands Host Services Export Display Help

ip-10-0-6-224

State	Service	Icons	Summary			
OK	PostgreSQL Locks MAIN/postgres	☰ 📁 ✨	Access Share Locks 0, Exclusive Locks 0	11 h	8.14 s	
OK	PostgreSQL Process Count	☰ ✨	1	11 h	8.14 s	
OK	PostgreSQL Query Duration MAIN/payments	☰ ✨	Longest query: 1183 seconds, Client: 10.1.2.44, PID: 2207, Query: SELECT o.id, o.amount, t.status FROM orders o JOIN transactions t ON t.order_id = o.id WHERE o.settled = false	11 h	8.14 s	
OK	PostgreSQL Query Duration MAIN/postgres	☰ ✨	Longest query: 0 seconds, PID: 812, Query: SELECT 1	11 h	8.14 s	
OK	PostgreSQL VACUUM MAIN/payments	☰ ✨	Table: audit_log, Not vacuumed for: 1 day 6 hours, No never checked tables	11 h	8.14 s	
OK	PostgreSQL VACUUM MAIN/postgres	☰ ✨	No never checked tables	11 h	8.14 s	
OK	SMART INTEL SSDSC2KB240G8 PHYF034700AB240A Stats	☰ 📁 ✨	Reallocated sectors: 0, Powered on: 2 years 157 days, Power cycles: 41, Uncorrectable errors: 0, Pending sectors: 0, UDMA CRC errors: 0	11 h	8.14 s	2 y 157 d
CRIT	SMART SAMSUNG MZ7L3480HCHQ-00A07 S6KSNE0T502244 Stats	☰ 📁 ✨	Reallocated sectors: 1 (during discovery: 0) CRIT , Powered on: 3 years 125 days, Power cycles: 41, Uncorrectable errors: 1 (during discovery: 0) CRIT , Pending sectors: 7 (during discovery: 0) CRIT , UDMA CRC errors: 0	10 m	8.14 s	3 y 126 d

Reallocated sectors: 1 (during discovery: 0) **CRIT**, Powered on: 3 years 125 days, Power cycles: 41, Uncorrectable errors: 1 (during discovery: 0) **CRIT**, Pending sectors: 7 (during discovery: 0) **CRIT**, UDMA CRC errors: 0

OK	Temperature SMART INTEL SSDSC2KB240G8 PHYF034700AB240A	☰ 📁 ✨	Temperature: 28 °C	11 h	8.15 s	28 °C
WARN	Temperature SMART SAMSUNG MZ7L3480HCHQ-00A07 S6KSNE0T502244	☰ 📁 ✨	Temperature: 38 °C (warn/crit at 35.0 °C/40.0 °C) WARN	37 m	8.15 s	38 °C
OK	Uptime	☰ 📁 ✨	Up since 2026-05-25 23:01:43, Uptime: 12 days 11 hours	11 h	8.15 s	12 d

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Dive deeper:

From Alert to Answer: The Checkmk Approach to Practical AI



Matteo Villosio & Annika Felgenträger
AI Engineer & Product Manager
Checkmk

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



A faster, more scalable platform

When seeing it yourself is not enough



**Manual
screenshots**

When seeing it yourself is not enough



**Manual
screenshots**



**Un-drillable
PDFs**

When seeing it yourself is not enough



**Manual
screenshots**



**Un-drillable
PDFs**



**Guest
Logins**

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- Dashboard
- checkout
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- OrbVis
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Metrics & graphs
Define widget

- ✓ **Data selection**
Hosts
 Host name (exact match)
 checkout
- 2 **Visualization**

Widget data

- ← Previous step
- Add & place widget

Choose how to display your data

Visualization types

- Graph
- Metric 42
- Gauge
- Barplot
- Scatterplot
- Top list



▼ Data settings

Time range..... The last 4 hours ▼

▼ Widget settings

No more build-guess-rebuild
Dashboards. Redefined.

checkmk

Dashboard Main dashboard

Host statistics

Service statistics

Problem notifications

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Add filter

Host filter

Expand all 0 of 222 selected

- > Host has (0 of 6)
- > Host in (0 of 4)
- > Host properties (0 of 9)
- > Host state (0 of 6)
- > Inventory (0 of 158)
- > Kubernetes (0 of 6)
- > Notifications (0 of 2)

Service filter

Expand all 0 of 36 selected

Runtime filters

Runtime filters are required to load data.
Values are temporary and can be overridden by widget filters.

Override default filters ⓘ

Host filters

Applied filters

No default host filters applied

Runtime filters

Add filter from left panel

Service filters

Applied filters

No default service filters applied

Runtime filters

Add filter from left panel

Cutting through the filter jungle
Dashboards. Redefined.

Kubernetes namespace

astronomy-shop

- OK accounting-845b6dd575-8crdv
- OK accounting-845b6dd575-8crdv
- OK accounting-845b6dd575-8crdv
- OK accounting-845b6dd575-8crdv
- OK accounting-845b6dd575-8crdv
- OK accounting-845b6dd575-8crdv

Pod info

Condition: SCHEDULED: True, READYTOSTARTCONTAINERS: True, INITIALIZED: True, CONTAINERSREADY: True, READY: True

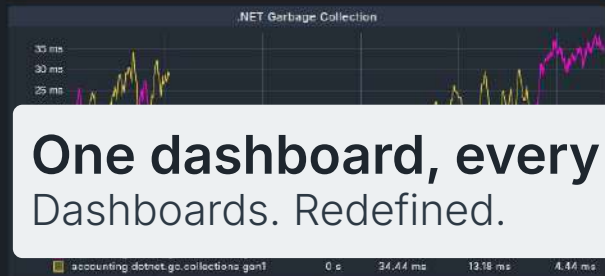
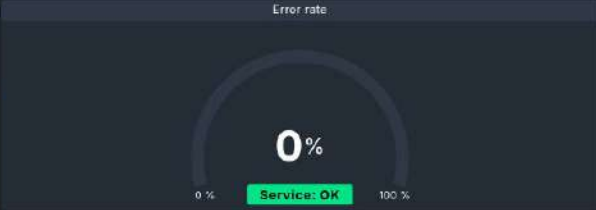
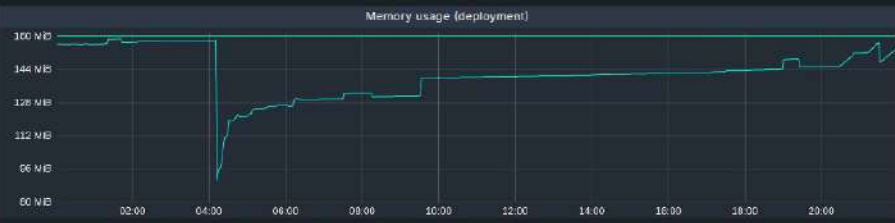
Status: Running for 17 hours 32 minutes, Image: ghcr.io/open-telemetry/demo:2.2.0-accounting, Restart count: 46

Name: accounting-645b6dd575-8crdv, Node: i-0d7cb370c8eaa6c9.eu-central-1.compute.internal, Namespace: astronomy-shop, Age: 29 days 6 hours, Controlled by: ReplicaSet/accounting-845b6dd575 - Deployment/accounting

Restarts: Total: 46, In last hour: 0

Status: Running

Uptime: Up since 2026-05-08 15:41:12, Uptime: 29 days 6 hours



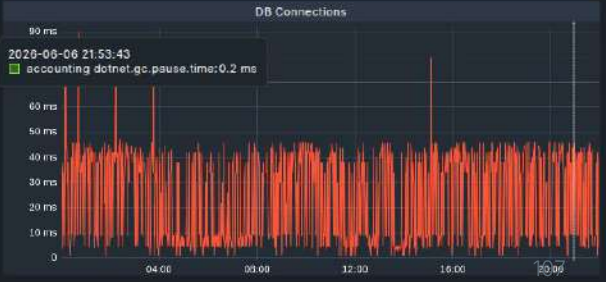
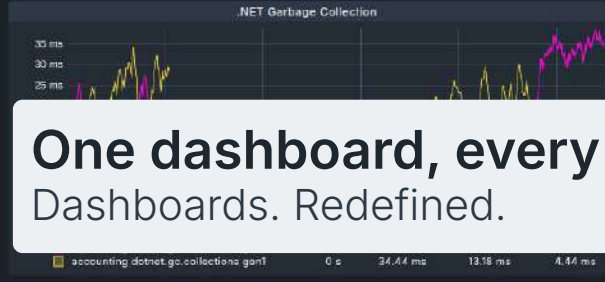
One dashboard, every screen
Dashboards. Redefined.

Kubernetes namespace: astronomy-shop

OK	accounting-845b6dd575-8crdv	Condition	SCHEDULED: True, READYTOSTARTCONTAINERS: True, INITIALIZED: True, CONTAINERSREADY: True, READY: True
OK	accounting-845b6dd575-8crdv	Container accounting	Status: Running for 17 hours 32 minutes, Image: ghcr.io/open-telemetry/demo:2.2.0-accounting, Restart count: 46
OK	accounting-845b6dd575-8crdv	Info	Name: accounting-645b6dd575-8crdv, Node: i-0d7cb370c8eaa6c9.eu-central-1.compute.internal, Namespace: astronomy-shop, Age: 29 days 6 hours, Controlled by: ReplicaSet/accounting-845b6dd575 <- Deployment/accounting
OK	accounting-845b6dd575-8crdv	Restarts	Total: 46, In last hour: 0
OK	accounting-845b6dd575-8crdv	Status	Running
OK	accounting-845b6dd575-8crdv	Uptime	Up since 2026-05-08 15:41:12, Uptime: 29 days 6 hours



Link to video: [here!](#)



One dashboard, every screen
Dashboards. Redefined.

Search

Monitor

Customize

Setup

Orbvis

Changes

Help

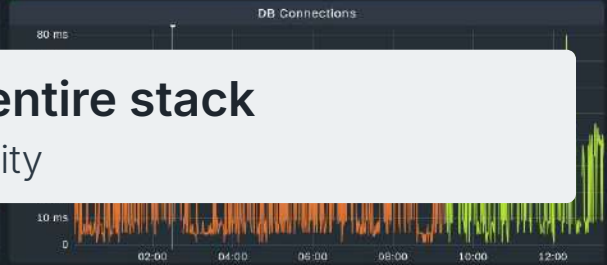
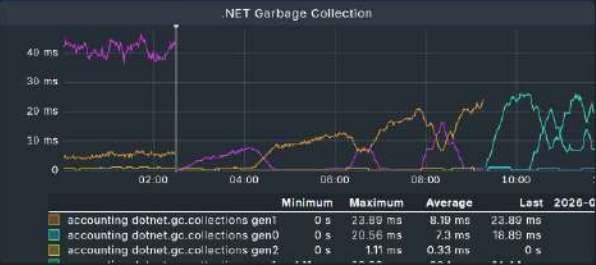
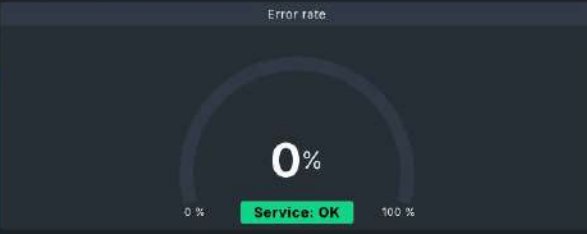
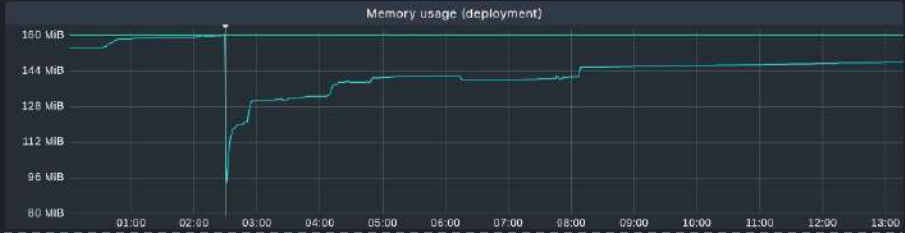
User

Sidebar

Anna

astronomy-shop

OK	accounting-845b6dd575-8crdv	Condition	SCHEDULED: True, READYTOSTARTCONTAINERS: True, INITIALIZED: True, CONTAINERSREADY: True, READY: True
OK	accounting-845b6dd575-8crdv	Container accounting	Status: Running for 10 hours 48 minutes, Image: ghcr.io/open-telemetry/demo:2.2.0-accounting, Restart count: 10
OK	accounting-645b6dd575-8crdv	Info	Name: accounting-645b6dd575-8crdv, Node: I-Dd7cb370c8eaa6c9.eu-central-1.compute.internal, Namespace: astronomy-shop, Age: 6 days 21 hours, Controlled by: ReplicaSet/accounting-645b6dd575 <- Deployment/accounting
OK	accounting-845b6dd575-8crdv	Restarts	Total: 10, In last hour: 0
OK	accounting-645b6dd575-8crdv	Status	Running
OK	accounting-845b6dd575-8crdv	Uptime	Up since 2026-05-08 15:41:12, Uptime: 6 days 21 hours



Across the entire stack
Full stack visibility

Dashboards. Redefined



Simple to create

New dashboard platform featuring a guided builder, on-canvas widgets, and live-data previews.



Unified control

Unified filtering provides a single filter layer for the entire board, ensuring consistency.



Responsive design

Responsive layouts optimized for every screen, from mobile to wallboards.

Safe Sharing: Public sharing via time-limited read-only links

Dive deeper:

Dashboards Reimagined: Powerful Dashboards that are Easy to Build and Even Easier to Analyze



Mathieu Sobrero & Wontek Hong
Product Manager & Software Engineer
Checkmk

Full-stack observability

Infrastructure

Application

Synthetic



Best in class user experience



Faster troubleshooting with embedded AI



Advanced data analytics & visualization



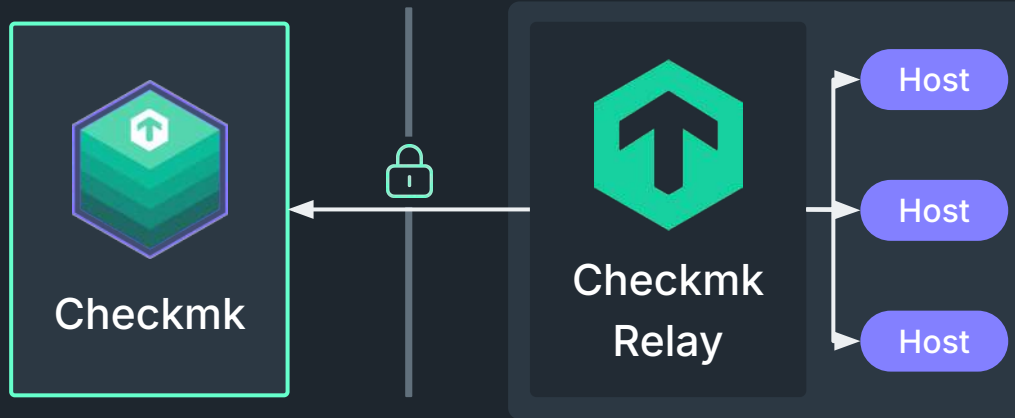
A faster, more scalable platform

Reach used to mean ...

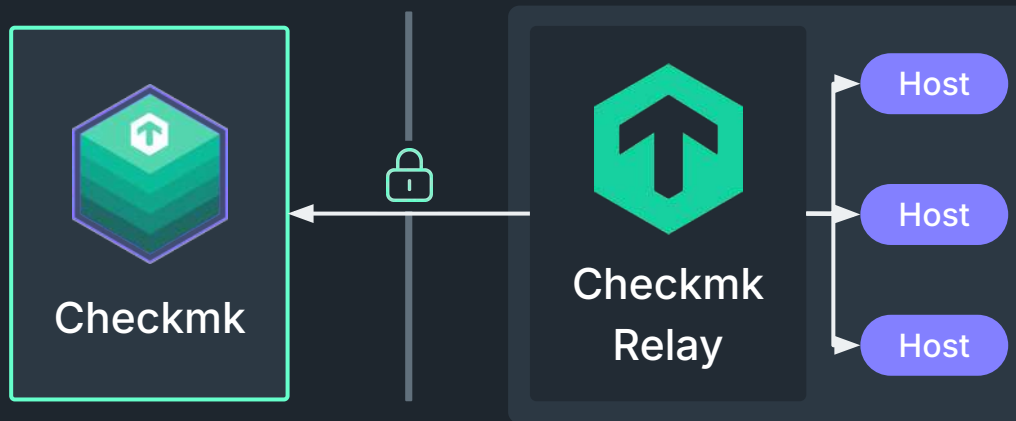
... another system to maintain



Checkmk Relay. Drop in & forget.



Checkmk Relay. Drop in & forget.



Lightweight

No monitoring logic



Secure

Encrypted via mTLS



Maintenance-free

Centrally configured & automatically updated



Cloud-ready

Outbound only

Speed where you feel it



Daily Activation Speedup

#18255 | #18222 | #19024

Notifications at Scale

#18867 | #19089 | #19099

Livestatus & UI at scale

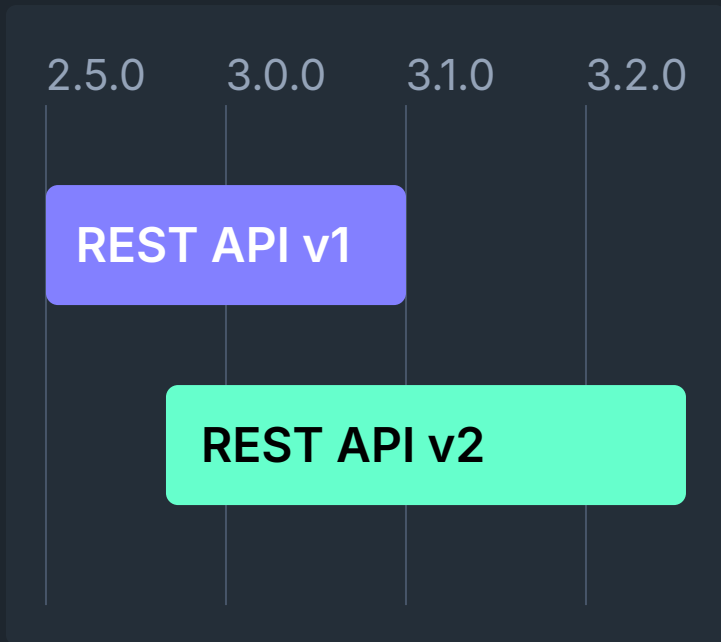
#19175 | #14250

HW/SW Inventory at scale

#18032 | #18319 | #18049

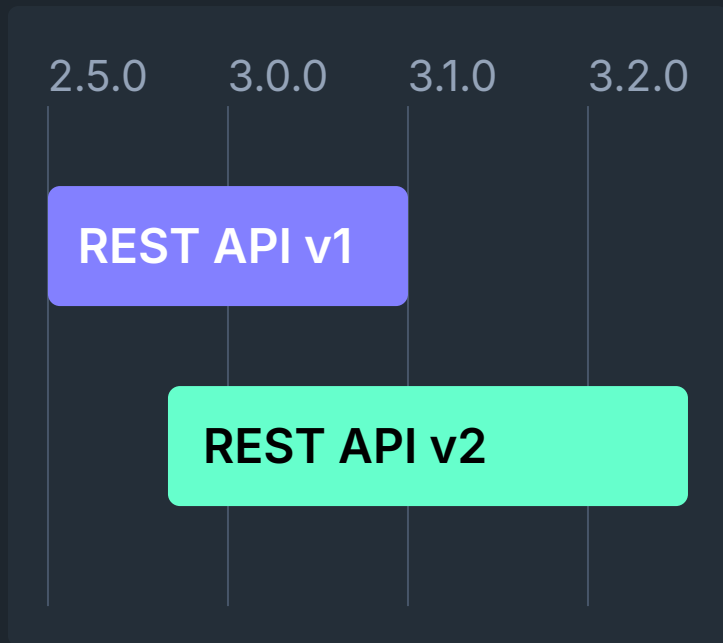


Automation you can rely on





Automation you can rely on



Faster at scale

New versioned developer APIs



v1

Server Side
Programs

New versioned developer APIs



v1

Server Side
Programs



v2

Bakery

New versioned developer APIs



v1

Server Side
Programs



v2

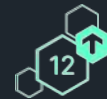
Bakery



v1

Inventory UI

New versioned developer APIs



v1

Server Side
Programs



v2

Bakery



v1

Inventory UI



v1

Password
Store

A faster, more scalable platform



Checkmk Relay

Lightweight, self-updating, outbound-only/mTLS.
Eliminates the need for remote site maintenance.



Speed at Scale

- Faster activate changes & micro-core reload
- Near-instant notifications
- HW/SW inventory up to 30x faster



Versioned REST API

v1 & v2 side by side with ~2x validation
throughput. Improved scalability for integration
workflows.



Developer APIs

New versioned APIs for server-side programs,
Bakery v2, Inventory UI, and Password Store.

Engineering for Scale: Introducing Checkmk Relay for Large Scale Distributed Deployments

Dive deeper:



Moritz Kiemer
Staff Software Engineer
Checkmk

Programmable Monitoring: Automating your Monitoring Workflows



Torsten Engler
Director Engineering
Checkmk

Three voices, one platform



Full-stack observability

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Dive deeper:

What's Next for Checkmk 3.0



Martin Hirschvogel (Chief Product Officer)
Torsten Engler (Director Engineering)
Lars Michelsen (Chief Technology Officer)
Checkmk

Checkmk #12

Conference