



Dashboards Reimagined

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



Mathieu Sobrero
Product Manager
Checkmk

Wontek Hong
Senior Software Engineer
Checkmk



Main dashboard

Monitor > Overview > Main dashboard

Monitor



Customize



Setup

Dashboard Add Dashboards Display Help

Host statistics



46 Up
0 In downtime
0 Unreachable
0 Down
46 Total

Service statistics

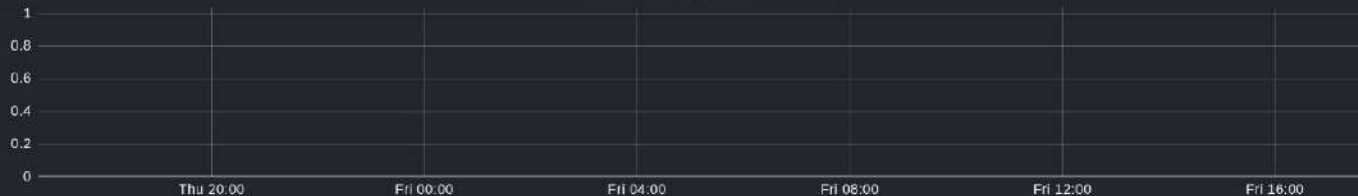


4092 OK
0 In downtime
0 On down host
27 Warning
0 Unknown
64 Critical
4183 Total

Problem notifications



Total host problems



Total service problems



Percentage of total service problems



Host overview



Top alerters (last 7 days)

Problems	Host	Service
14	janux.lan.checkmk.net	Check_MK
5	janux.lan.checkmk.net	OMD stable status
7	janux.lan.checkmk.net	APT Updates
5	janux.lan.checkmk.net	OMD master performance
4	janux.lan.checkmk.net	OMD master status
3	janux.lan.checkmk.net	Process stable active check helpers

The signal we couldn't ignore



Total cost of ownership



Customizability



Ease of implementation



Scalability



Visualization

Interviewees provided mixed feedback on visualization, which was perceived as behind competitors by some.



What you told us

Dashboard and Dashlet experience didn't meet your needs

 Ideas Portal review

 Community survey

 Stakeholders interviews



3.33 out of 7

Dashboard creation experience

*"I have a **hard time** getting started.
There are **so many attributes**, it is hard
finding the right one"*



3.48 out of 7

Dashlet configuration experience

*"Difficult to understand how the different
dashlets are working and for which
metrics"*

Three problems, one broken experience



Dashboard creation

✗ Building Dashboards was too cumbersome



Dashlet configuration

✗ Configuring dashlets was a guessing game



Dashboard filtering

✗ Analyzing data was harder than it needed to be

Rebuilding the experience

Back to the foundation

A decorative graphic in the top-left corner consisting of three overlapping, stylized, light blue chevron-like shapes pointing downwards and to the right.

Powerful Dashboards

Easy to build

Create dashboard

Customize > Dashboards > Create dashboard

Dashboard Display Help

Save & view list

Save & go to dashboard

Cancel

Dashboards

General properties

show less

Show information of single Not restricted to showing a specific object.

Unique ID (required) my_dashboard

Title* (required) My dashboard

Description*

Context information Add context information to title

Topic in "Monitor" menu Other

Sort index 99

Show more Only show the dashboard if show more is active

Icon +

Visibility
Hide this dashboard in the monitor menu
Hide this dashboard in drop-down menus
Make this dashboard available for other users

Context / Search Filters

Host Add filter

Service Add filter

Dashboard properties

Display dashboard title Show the header of the dashboard with the configured title.

Required context filters Available Selected

Host: Folder
Host: Multiple Setup Folders
Host: Topology max nodes
Host: Topology mesh depth
Host: Host name (regex)

Views

- New view
- Link to existing view
- Copy of existing view

Graphs

- Single metric graph
- Performance graph
- Custom graph
- Combined graph

Metrics

- Average scatterplot
- Barplot
- Gauge
- Single metric
- Top list

State

- Host state
- Service state
- Host state summary
- Service state summary

HW/SW Inventory

- HW/SW Inventory of host

Checkmk

- Site overview
- Alert overview
- Host statistics
- Service statistics
- Event statistics
- Notification timeline
- Alert timeline
- Percentage of service problems
- User messages
- Sidebar element

Other

How many *wrong* Dashlets do you open before finding the *right* one?

Add element: Timeseries

Monitor > Other > My dashboard > Add element: Timeseries

Element Display Help

Save My dashboard

General Settings

Element type Timeseries

Show information of single host, service

Colored background ✖ Render background

Show title header Show header with highlighted background ▾

Custom title* ☐

Link of Title ☐

Context / Search Filters

Host ☐ Host name

Service ☐ Service description

Properties

Metric (Select metric) ▾

Filter metric selection by host name: (Select hostname) ▾

Filter metric selection by service: (Select service) ▾

Color Default theme color ▾

Time range Use the default color of the theme.

..... The last 4 hours ▾

Graph rendering options Font size

..... 8.00 pt

Show graph time range

☐ Show the graph time range on top of the graph

Show margin round the graph

☐ Show a margin round the graph

Show legend

☐ Show the graph legend

Show vertical axis

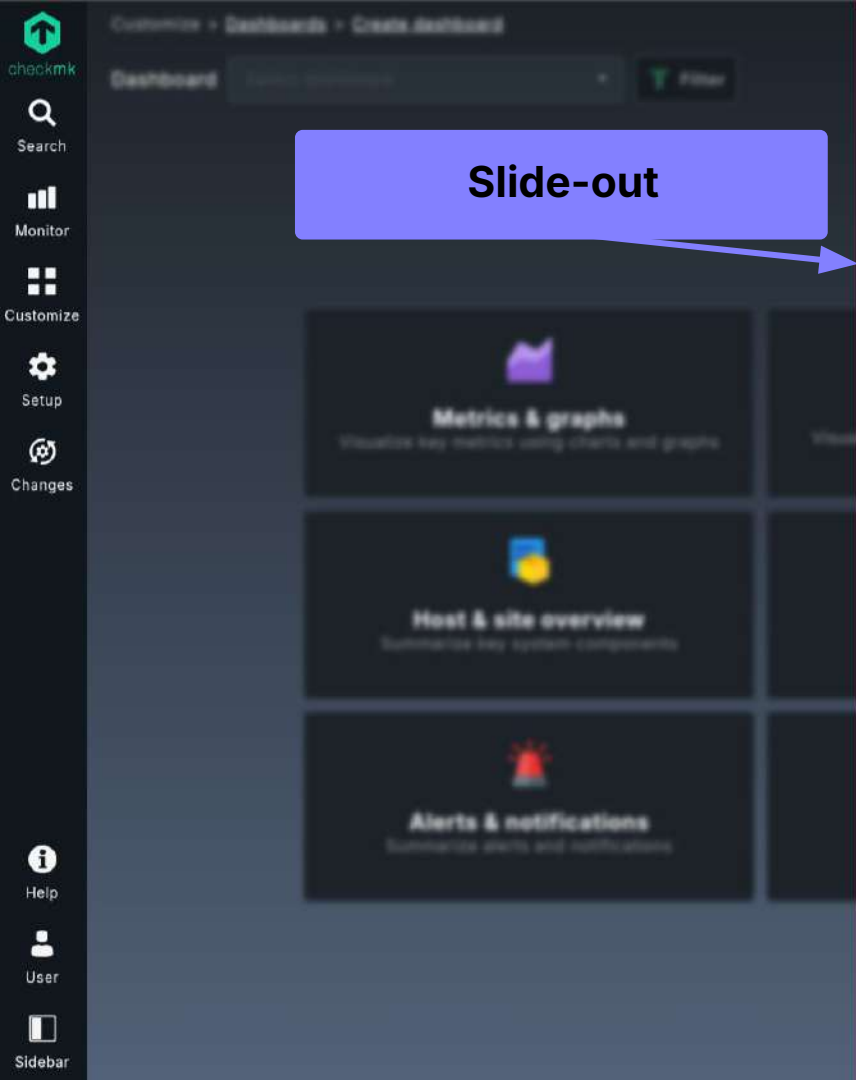
☒ Show the graph vertical axis

Vertical axis width

Checkmk 2.4

What settings should I fill?

**A new architecture for a new
experience**



Create dashboard

Checkmk 2.5

Create

Cancel

Dashboard type ⓘ

Unrestricted

Specific host

Custom

General properties

Name (required)..... My dashboard

Unique ID (required)..... ✖ Automatically create unique ID: my_dashboard

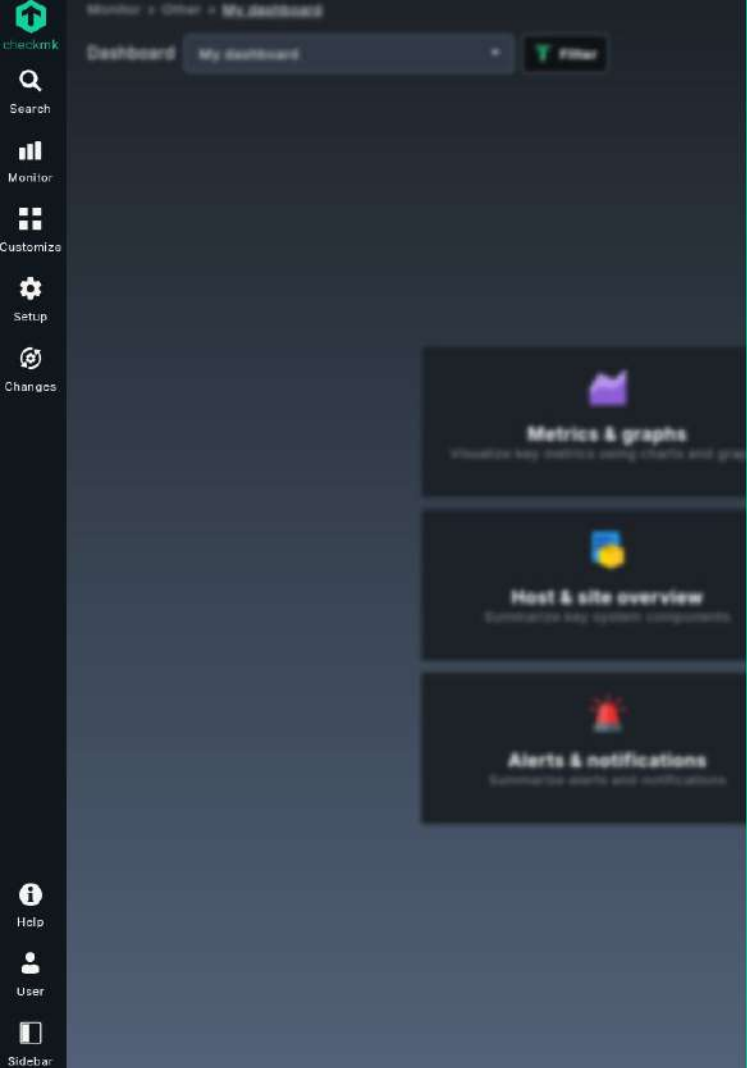
Dashboard icon ⓘ.....

Dashboard layout ⓘ.....
☒ Responsive
☐ Anchored

Visibility

Dashboard visibility..... ☐ Show in monitor menu

Sort index ⓘ..... 99



Metrics & graphs

Define widget

1 Data selection

2 Visualization

Data selection

Next step: Visualization

Checkmk 2.5

Select the data you want to analyze
Default filters apply here and don't have to be selected again

Host selection

Single host

Multiple hosts

> Applied dashboard host name filter

Widget filters

Add host to refine this widget

+ Add host name

Service selection

Single service

Multiple services

> Applied dashboard service name filter

Widget filters

Add service to refine this widget

+ Add service name

Metric selection

Metric (single)

Graph (combined)

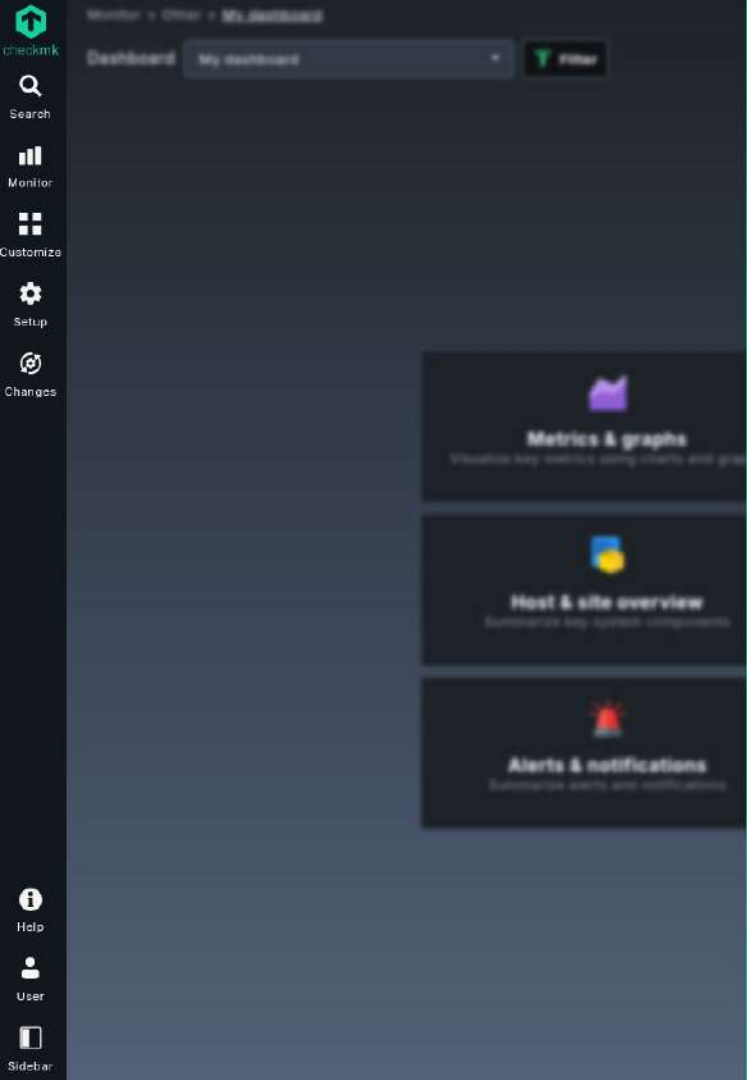
Service metric (required)

Select service metric

Narrow dropdown options by host or service (no selection)

Host name: Select

Service: Select



Metrics & graphs

Define widget



Data selection

Hosts

Host name (exact match)

checkmklab

Services

Service name (exact match)

CPU utilization

Metric

CPU utilization



Visualization

Live
preview

Widget data

Previous step

Add & place widget

Checkmk 2.5

Choose how to display your data

Visualization types



Graph



Metric



Gauge



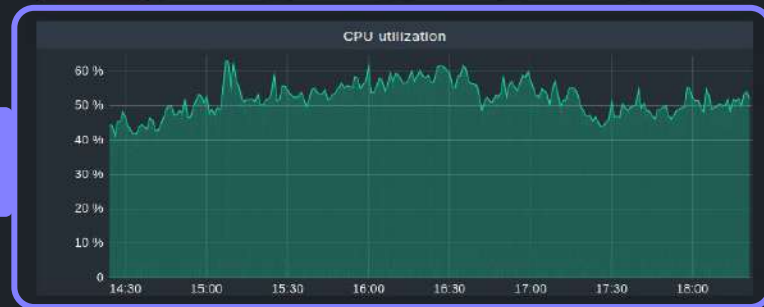
Barplot



Scatterplot



Top list



▼ Data settings

Time range..... The last 4 hours ▼

▼ Widget settings

Title ⓘ \$DEFAULT_TITLES

Interaction..... Link title to

Appearance.....
☒ Show title
☒ Show title background
☒ Show widget background

> Additional graph options

Edit dashboards

Dashboards Related Display Help

Find on this page ...



+ Add dashboard

Your dashboard has been deleted.

Built-in

Actions	ID	Title	Owner	Menu placement	Internal access
	aws_ec2_overview	AWS EC2 Instances	<i>built-in</i>	Shown	All users
	aws_s3_overview	AWS S3 (object storage)	<i>built-in</i>	Shown	All users
	azure_overview	Azure overview	<i>built-in</i>	Shown	All users
	azure_resource_group	Azure resource group	<i>built-in</i>	Hidden	All users
	azure_storage_accounts	Azure storage accounts	<i>built-in</i>	Shown	All users
	azure_storage_overview	Azure storage accounts (deprecated)	<i>built-in</i>	Hidden	All users
	azure_subscription	Azure subscription	<i>built-in</i>	Hidden	All users
	azure_vm_instances	Azure VM instances	<i>built-in</i>	Shown	All users
	azure_vm_overview	Azure VM instances (deprecated)	<i>built-in</i>	Hidden	All users
	checkmk	Checkmk dashboard	<i>built-in</i>	Shown	All users
	gcp_gce_overview	GCP GCE instances	<i>built-in</i>	Shown	All users
	gcp_storage_overview	GCP cloud storage	<i>built-in</i>	Shown	All users
	kubernetes_cluster	Kubernetes cluster	<i>built-in</i>	Hidden	All users
	kubernetes_daemonset	Kubernetes DaemonSet	<i>built-in</i>	Hidden	All users
	kubernetes_deployment	Kubernetes deployment	<i>built-in</i>	Hidden	All users
	kubernetes_namespace	Kubernetes Namespace	<i>built-in</i>	Hidden	All users
	kubernetes_overview	Kubernetes	<i>built-in</i>	Shown	All users
	kubernetes_statefulset	Kubernetes StatefulSet	<i>built-in</i>	Hidden	All users
	linux_hosts_overview	Linux hosts	<i>built-in</i>	Shown	All users



Link to video: [here!](#)



Powerful Dashboards

Even easier to analyze



checkmk



Monitor



Customize



Setup



Help



User



javascript:void(0)

My dashboard

Monitor > Other > My dashboard

Dashboard Add Dashboards Display Help

Host

- Folder
 - Multiple Setup Folders
 - Topology max nodes
 - Topology mesh depth
 - Host name (regex)
 - Host name (exact match)
 - Host address (IPv4)
 - Host address (IPv6)
 - Host address (Primary)
 - Host name or alias (regex)
 - Host alias (regex)
 - Host address families
 - Host address family (Primary)
 - Host custom attribute (regex)
 - Host is in Group
 - Several host groups
 - Host Contact Group
 - Host Contact
 - Host contact (regex)
 - Host check command (exact match)
 - Host check command (regex)
 - Host states
 - Host state type
 - Hosts having certain service problems
 - Host in notification period
 - Host in service period
 - Host problem has been acknowledged
 - Host active checks enabled
 - Host in downtime
 - Host notifications enabled
 - Current host notification number
 - Host is stale
 - Number of services of the host
 - Last host state change
 - Last host check
 - Noting host
 - Host labels
 - Metric History
 - Host Auxiliary Tags
 - Host tags
 - Host service level
 - Host has registered for deployment
 - Site
 - Favorite Hosts
 - Host needs agent update
 - Site (enforced)
 - Host has a baked agent
 - Multiple sites
 - Host has downloaded an agent
 - Host has deployment error
 - Time of registration
 - Last contact of agent updater
 - Last download of agent updater
 - Kubernetes cluster
 - Kubernetes daemonSet
 - Kubernetes deployment
 - Kubernetes namespace
 - Kubernetes node

Filter

+ Add filter

Apply filters

Reset

Runtime filters

Checkmk 2.4

Edit dashboard

Customize > Dashboards > Edit dashboard

Dashboard Display Help

Save & view list Save & go to dashboard Cancel Dashboards

General properties

show less

Show information of single Not restricted to showing a specific object.

Unique ID (required) my_dashboard

Title* (required) My dashboard

Description*

Context information Add context information to title

Topic in "Monitor" menu Other

Sort index 99

Show more Only show the dashboard if show more is active

Icon +

Visibility
Hide this dashboard in the monitor menu
Hide this dashboard in drop-down menus
Make this dashboard available for other users

Context / Search Filters

Host Add filter

Service my_dashboard Add filter

Dashboard properties

Display dashboard title Show the header of the dashboard with the configured title.

Required context filters Available Selected

Host: Folder
Host: Multiple Setup Folders
Host: Topology max nodes
Host: Topology mesh depth
Host: Host name (regex)

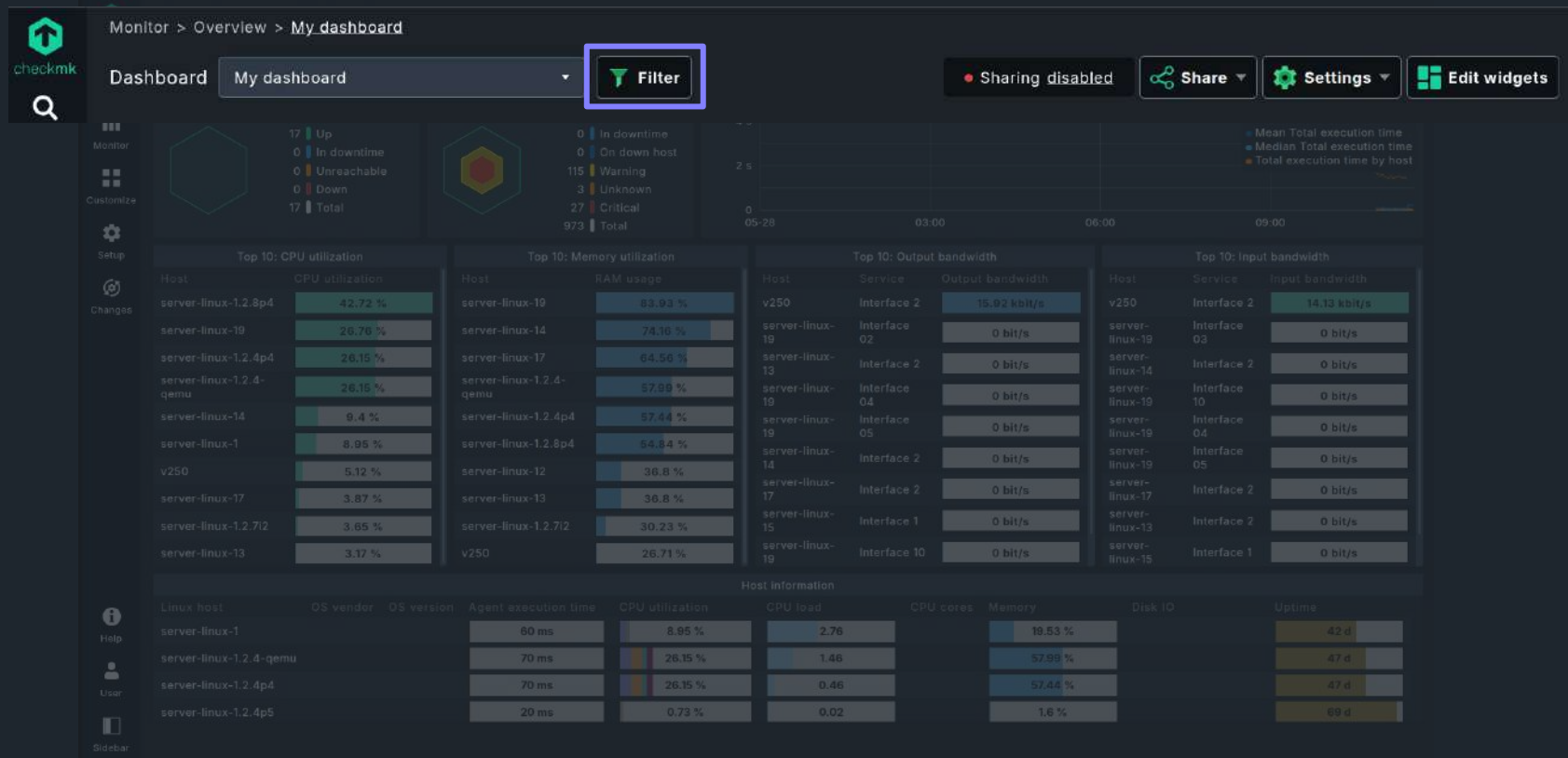
Permanent
filters

Checkmk 2.4

A unified filter location



A unified filter location



checkmk

Dashboard My dashboard

Search

Monitor

Customize

Setup

Changes

Help

User

Sidebar

Monitor > Overview > My dashboard

Host statistics

17 Up
0 In down
0 Unread
0 Down
17 Total

Top 10 CPU utilization

Host	CPU utilization
server-blue-1.2.4p4	42.7%
server-blue-16	28.7%
server-blue-1.2.4p4	28.1%
server-blue-1.2.4-pemu	28.1%
server-blue-14	9.8%
server-blue-1	8.8%
v250	8.2%
server-blue-17	3.8%
server-blue-1.2.7d2	3.8%
server-blue-13	3.1%

Add filter

Host filter

Search

Expand all

0 of 219 selected

Host auxiliary tags

Host labels

Host name (exact match)

Host name (regex)

Host name or alias (regex)

Host tags

Hostalias (regex)

Service filter

Search

Expand all

0 of 36 selected

Favorite Services

Service labels

Service service level

Service tags

Filter settings

Save

Cancel

Default filters

Runtime filters

Set filters for all widgets.

Values can be overridden by runtime or widget filters.

Host filters

Add filter from left panel

Service filters

Add filter from left panel

Checkmk 2.5

checkmk

Search

Monitor

Customize

Setup

Changes

Help

User

Sidebar

Monitor + Overview + My dashboard

Dashboard My dashboard

Host statistics

17 Up
0 In down
0 Unreach
0 Down
17 Total

Top 10 CPU utilization

Host	CPU utilization
server-000-1.2.4p4	42.7%
server-000-16	28.7%
server-000-1.2.4-gentle	28.1%
server-000-1.2.4p4	28.1%
server-000-14	8.4%
server-000-1	8.3%
v256	7.8%
server-000-17	3.8%
server-000-1.2.7p2	3.8%
server-000-13	3.3%

Add filter

Host filter

Search

Expand all

1 of 219 selected

Collapse all

> Host properties

(0 of 9)

✓ Host state

(1 of 6)

Host is stale

Host state type

✓ Host states

Hosts having certain service problems

Last host check

Service filter

Search

Expand all

0 of 36 selected

Favorite Services

Service labels

Service service level

Runtime filters

Runtime filters are required to load data.

Values are temporary and can be overridden by widget filters.

Apply

Reset to pre-selected filters

Edit filter settings

☐ Override default filters ⓘ

Host filters

▼ Applied filters

No default host filters applied

▼ Runtime filters

Host states

× UP

× DOWN

☐ UNREACH

× PEND

Add filter from left panel

Service filters

▼ Applied filters

No default service filters applied

Checkmk 2.5

Dashboard layout in Checkmk 2.4



Which corner should I select to make the Dashboard responsive to different screen sizes?

How can I add more content ?



Search



Monitor



Customize



Setup



Changes

Docked container status

OK

Uptime - Container

2 d 2 h

Last hour total requests

334

Service: OK

Last hour total errors

86

Service: OK

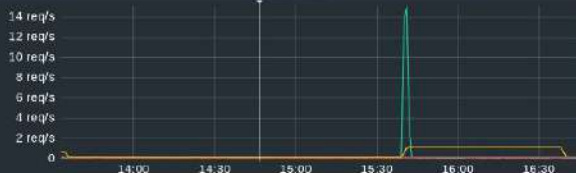
Last hour latency (p95)

7.75 s

Service: OK

1 h 23 min

Request rate



	Minimum	Maximum	Average	Last
Last day request rate	0.05 req/s	0.11 req/s	0.07 req/s	0.11 req/s
Last hour request rate	0.08 req/s	1.13 req/s	0.26 req/s	0.09 req/s
Last minute request rate	0 req/s	14.78 req/s	0.18 req/s	0.01 req/s

Error rate



	Minimum	Maximum	Average	Last	2026-05-08
Last day error rate	23.31 %	29.96 %	24.46 %	25.55 %	25.55 %
Last hour error rate	11.82 %	42.53 %	25.73 %	25.75 %	25.75 %
Last minute error rate	0 %	41.5 %	12.54 %	2.08 %	2.08 %

Latency (p95)



	Minimum	Maximum	Average	Last	2026-05-08
Last day latency (p95)	8.16 s	8.9 s	8.24 s	8.27 s	8.27 s
Last hour latency (p95)	6.63 s	10.17 s	7.86 s	7.75 s	7.75 s
Last minute latency (p95)	0 s	9.34 s	3.77 s	0.63 s	0.63 s

RAM used - Container



	Minimum	Maximum	Average	Last	2026-05-08
RAM used	13.67 MiB	19.42 MiB	15.61 MiB	15.36 MiB	15.36 MiB
Maximum of RAM used					

Disk throughput - Container



	Minimum	Maximum	Average	Last	2026-05-08
Read throughput	11.41 KiB/s	541.01 KiB/s	125.0008 KiB/s	56.24 KiB/s	56.24 KiB/s
Write throughput	0 B/s	92.41 KiB/s	15.94 KiB/s	4.67 KiB/s	4.67 KiB/s

CPU utilization - Container



	Minimum	Maximum	Average	Last	2026-05-08
CPU utilization	2.15 %	5.17 %	2.72 %	2.57 %	2.91 %



Help



User



Sidebar

Checkmk Local site chie

May 11 10:52

Not secure 32.58.84.151/checkmk/ab/check_mk/index.py?start_url=%2Fcheckmk/ab%2Fcheck_mk%2Fdashboard.py%3Fname%3Dwebshop_checkout_service_clone%26owner%3Dcmadmin

Monitor > Other > Webshop: Checkout service

DashboardWebshop: Checkout serviceFilter

Sharing disabledShareSettingsEdit widgets

Docker container status

OK

Uptime - Container

4 d 20 h

Last hour total requests

3704

Last hour total errors

0

Last hour latency (p95)

8.27 s

Service: OK

Request rate

	Minimum	Maximum	Average
Last day request rate	0.37 req/s	0.43 req/s	0.4 req/s
Last hour request rate	0.09 req/s	1.33 req/s	0.55 req/s
Last minute request rate	0 req/s	10.83 req/s	0.4 req/s

Latency (p95)

	Minimum	Maximum	Average	Last
Last day latency (p95)	7.42 s	7.74 s	7.58 s	7.66 s
Last hour latency (p95)	4.71 s	8.20 s	7.67 s	8.27 s
Last minute latency (p95)	0 s	9.35 s	3.91 s	0 s

RAM used - Container

	Minimum	Maximum	Average	Last
RAM used	12.67 MiB	18.70 MiB	15.7 MiB	15.54 MiB
Maximum of RAM used				20 MiB

Read throughput

	Minimum	Maximum	Average	Last
Read throughput	5.39 KiB/s	526.91 KiB/s	152.67 KiB/s	110.77 KiB/s
Write throughput	0 B/s	91.45 KiB/s	19.27 KiB/s	3.008 KiB/s

CPU utilization - Container

	Minimum	Maximum	Average	Last
CPU utilization	2.15 %	4.71 %	2.77 %	2.72 %

Link to video: [here!](#)

Beyond the foundations

When sharing means screenshots



Leadership

Hi, I've got a meeting this afternoon. I need a clear overview of our infrastructure health. Can you send me something?

I can't login. I don't have a Checkmk account



Checkmk Admin

I have a Dashboard in Checkmk that includes uptime, alerts, host status across all the sites. All you need. Let me send you the link.

Well... Let me take some screenshots and put them in a slide deck.

Easily share Dashboards

Seamless integration into the UI



Share directly from the Dashboard menu

Sharing status

Sharing active

Share

- Copy internal link
- Copy public link
- Configure sharing

Configure sharing

Close

Dashboard: Main dashboard

Filter

Host statistics

598	Up
0	In downtime
0	Unreachable
0	Down
598	Total

Total host problems

Public dashboard URL

https://janux.lan.checkmk.net/master/check_mk/shared_1

Disable access Delete

Link settings

Choose how the dashboard appears, set an expiration date or add a comment

Validity..... Set expiration date

Comment..... Internal comment, not visible to viewers

Save changes

Powerful Dashboards

Easy to build
even easier to analyze
and now fully shareable

Checkmk #12

Conference