

Community Call

March 6th 2024

Agenda



01 What's new in Checkmk 2.3

02 The Road to Checkmk 2.3

03 Upgrade Pitfalls and Call for Feedback

04 Q&A

Condensed overview of major changes in 2.3



Enjoy working with Checkmk

- Testing notifications and analyzing effective notification rules
- Service labels can be updated on the fly
- Fine-grained options for automatic service configuration update
- Labels can be flexibly combined in rule conditions
- Performance boosts in UI and for activate changes
- New icons for rule matching
- 14 command + confirmation dialogs reworked
- Acknowledge problems & schedule downtimes actions completely renewed
- Natural sorting of hosts and folders in setup
- Folders included when filtering in host setup
- Redesigned filter-search in setup

Synthetic monitoring

More, and better monitoring

- Web services monitoring (HTTP/HTTPS)
- Certificate monitoring
- Top lists dashlet
- Automatic OS-based label creation
- Network topology visualization
- Authenticator app support for 2FA

Smoother upgrade

- Development APIs: Rulesets v1, Server-side calls v1, Agent-based v2, Graphing v1

Many reworked/new check plug-ins (Nutanix)

OpenShift monitoring in Checkmk Enterprise

Checkmk MSP with all Checkmk Cloud features



checkmk



Monitor



Customize



Setup

Notification configuration

Setup > Events > Notification configuration

No pending changes

Notification rules Display Help

Find on this page ...

+ Add rule

🧪 Test notifications

📊 Show analysis

📦 Show bulks

Test notifications



Test notifications on **Host** **Service**

Host (required) heute x

Simulate Start of downtime

Plugin output This is a notification test

Send out notification according to notification rules (uncheck to avoid spam)

Advanced condition simulation

Event date and time 01/16/2024 08:52 PM [UTC+01:00] Server time (currently: 01/16/2024 20:52)

Notification number 1

Test notifications

Cancel

Global notification rules

#	Actions	Type	Plugin	Bulk	Description	Contacts	Conditions
0		✓	mail		Notify all contacts of a host/service via HTML email	• all contacts of the notified object	(no conditions)



Notification configuration

Setup > Events > Notification configuration

No pending changes

Notification rules Display Help

Find on this page ...

+ Add rule

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📄 Show bulks

Analysis: Test notifications

Date and time	Type	From	To	Host	Service	Plugin output
2024-01-16 20:53:00	PROBLEM			netapp_api_agent_output	Aggregation aggr1_IPIT3_SSYSNPP02_02	

Resulting notifications

Recipient	Plugin	Plugin parameters	Bulking
martin.hirschvogel@checkmk.com	HTML Email	graphs_per_notification, notifications_with_graphs	

Global notification rules

#	Actions	Type	Plugin	Bulk	Description	Contacts	Conditions
0			mail		Notify all contacts of a host/service via HTML email	• all contacts of the notified object	(no conditions)

Reworked 'Acknowledge problem'



Acknowledge problems

Comment (required)

sticky send notification persistent comment

Expire acknowledgement after days hours mins

Acknowledge

Remove acknowledgement



Acknowledge problems

Comment (required) e.g. ticket ID

Options (Edit defaults)

Expire on [UTC+01:00] Server time (currently:

Ignore status changes until services/hosts are OK/UP again (sticky)
Example: Service was WARN and goes CRIT - acknowledgment doesn't expire.

Keep comment after acknowledgment expires (persistent comment)

Notify affected users if [notification rules](#) are in place (send notifications)

Acknowledge problems

Cancel

confidential

Schedule downtimes

Comment (required)

From now for minutes

2 hours

Today

This week

This month

This year

Remove all

Custom time range

Year Month Day Hour Minute Sec. to Year Month Day Hour Minute Sec.
2024 1 17 14 39 7 to 2024 1 17 16 39 7

flexible with max. duration hours mins

Repeat this downtime on a regular basis every (only works with the microcore)



Schedule downtimes

Comment (required) What is the occasion?

Date and time

Duration 2 hours Today This week This month This year [\(Edit presets\)](#)

Start [UTC+01:00] Server time (currently: 01/17/2024 14:37)

End [UTC+01:00] Server time

Repeat (only works with the microcore)

> Advanced options

Schedule downtime on host

Schedule downtime on service

Cancel

AND/OR/NOT operator for labels in rules

Consistency and efficiency



▼ **Conditions**

Condition type Explicit conditions ▼

Folder Main ▼

Host tags Add tag condition

Host labels

X	Label	is ▼	cmk/os_family:linux	x
		or ▼	cmk/check_mk_server:yes	x
		and ▼	(Select label)	
X	or ▼	is not ▼	cmk/site:heute	x
		and ▼	cmk/os_family:linux	x
		not ▼	(Select label)	
X	and ▼	is ▼	(Select label)	

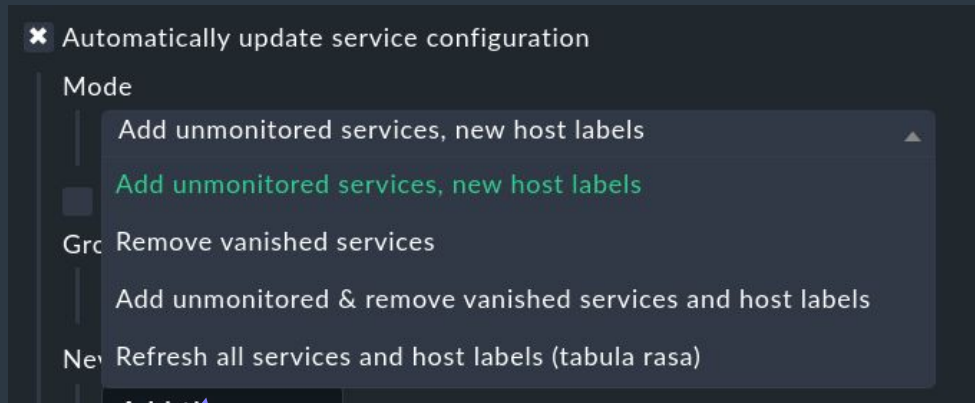
+ Add to condition

Explicit hosts

More flexibility and power for service discovery

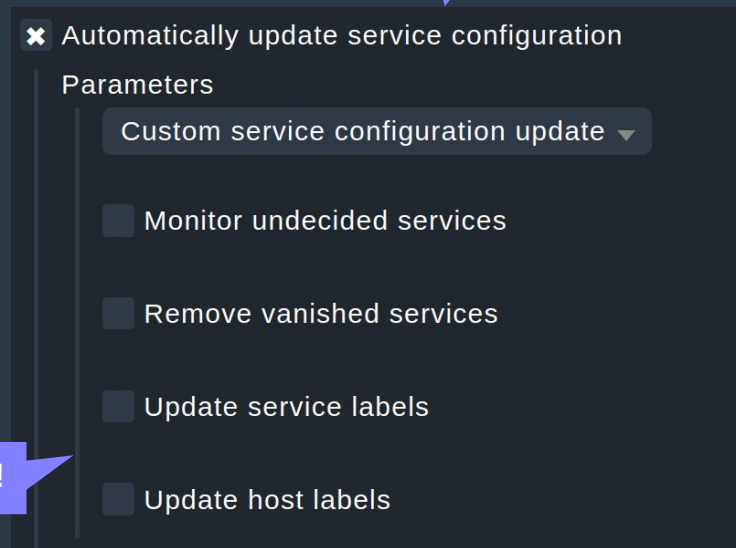


Periodic service discovery & bulk discovery



2.2: Dropdown with combined update actions

2.3: fine-grained configuration of update actions



New: Update service labels on the fly!

Service description

Prefix (required)

Use protocol name: HTTP(S) ▾

Name

My HTTP service

URL

https://subdomain.domain.tlc

✕ Individual settings

✕ Connection details

- HTTP version
- TLS version
- HTTP method
- Redirects
- Connection timeout
- User Agent
- Additional header lines
- Authentication

✕ Response time

Fixed levels ▾

Warning at 0.00 ms

Critical at 0.00 ms

✕ Status code

Expected

 200

Add new entry

- Certificate validity
- Document
- String validation

More powerful web monitoring



- ⬢ New HTTP check (completely rewritten)
- ⬢ More useful check results
- ⬢ One rule to monitor multiple endpoints
- ⬢ Monitor website + cert in one service (if you want to)
- ⬢ Split services as you want or need to
- ⬢ With new features:

TLS 1.3

HTTP 2.0

Token based auth

Usage of proxies

Custom user agents



New certificate check



New check for advanced certificate monitoring:
→ Not only for http but all application protocols
→ Option to extend compatibility to UDP
(currently TCP only)



Host address or name

mydc.mycompany.tld

✖ Port

636

✖ Individual settings

Response time

✖ Check certificate validity

✖ Remaining validity time

Warning at or below days

Critical at or below days

Maximum allowed validity

Allow self-signed certificates

✖ Check for specific values

Serial number

Encryption algorithm

Issuer

Subject

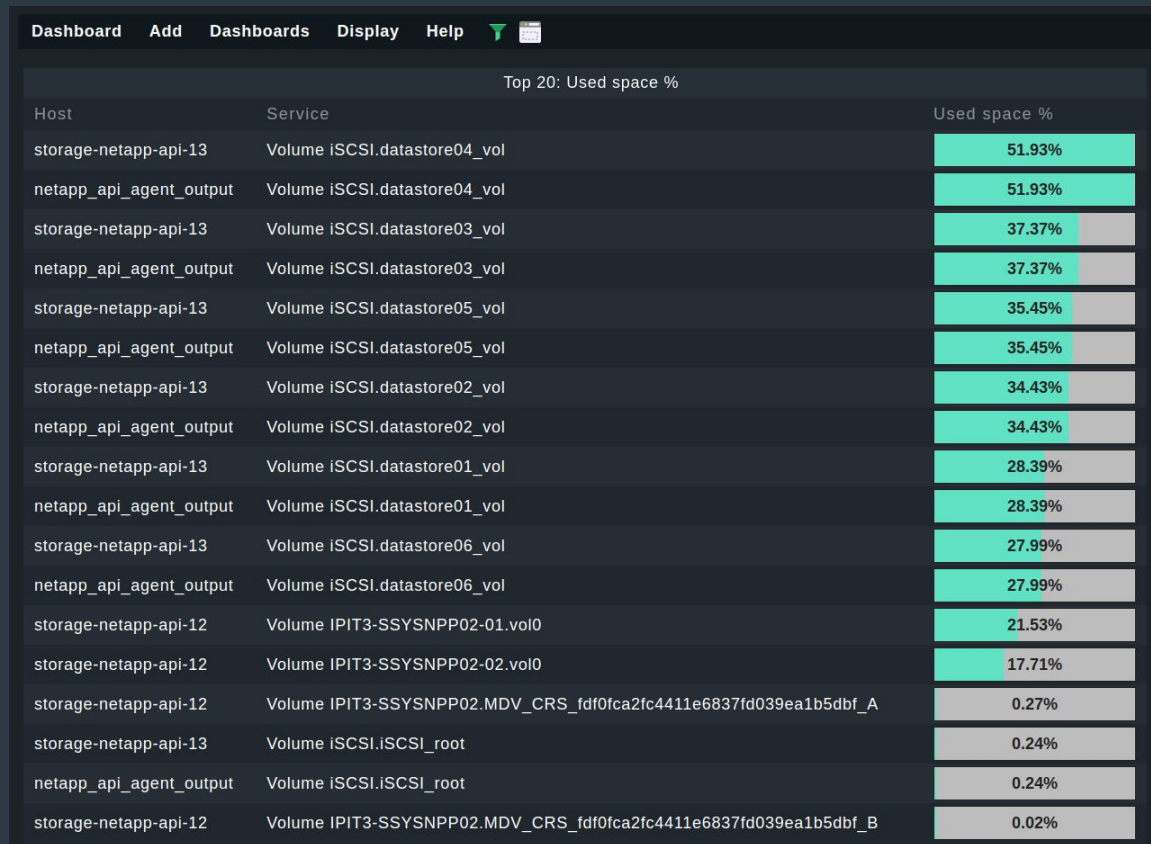
✖ Certificate subject alternative name

Add new entry

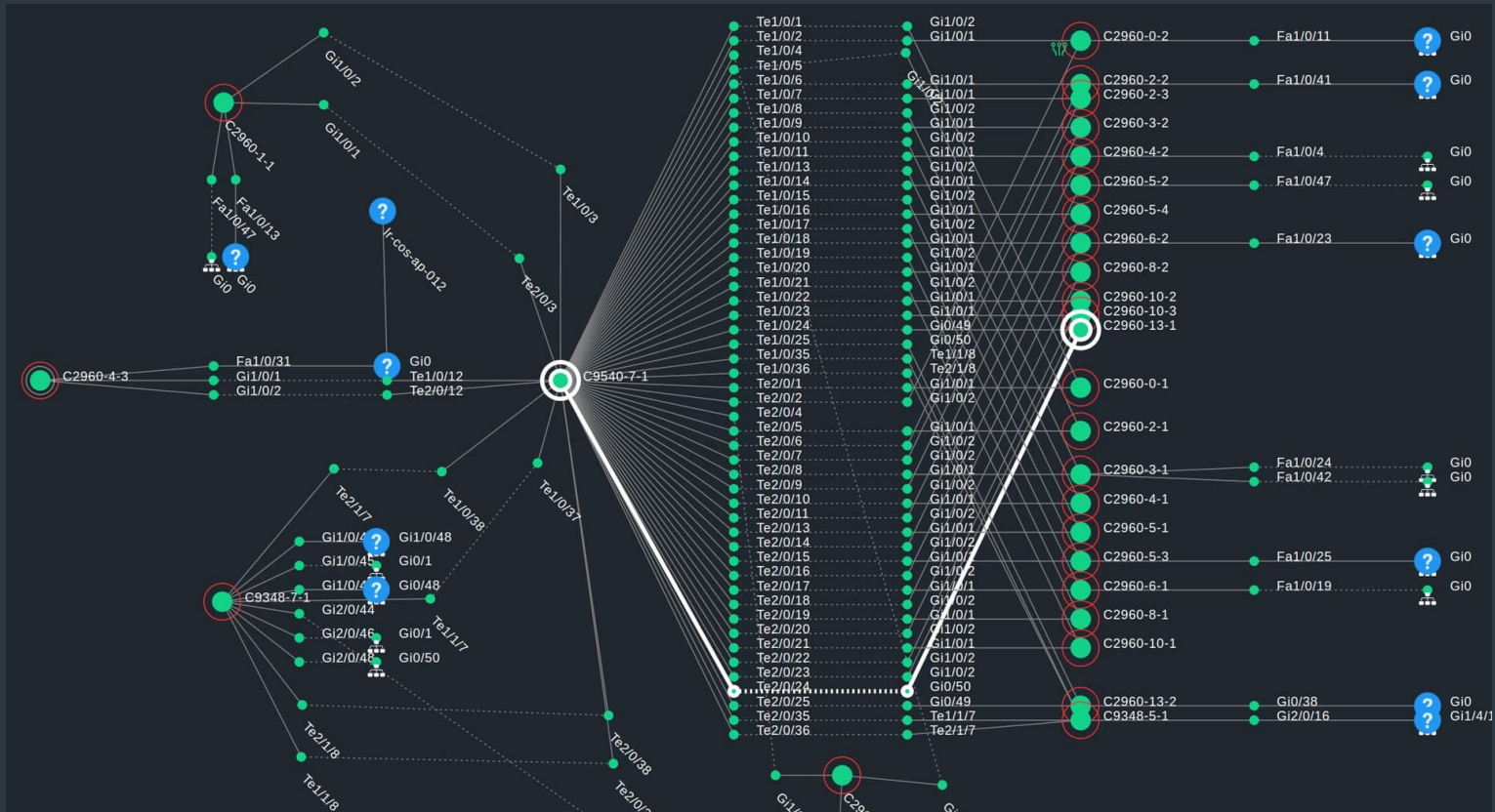
Add new entry

Standard settings

Identify your top consumers (at high performance!)

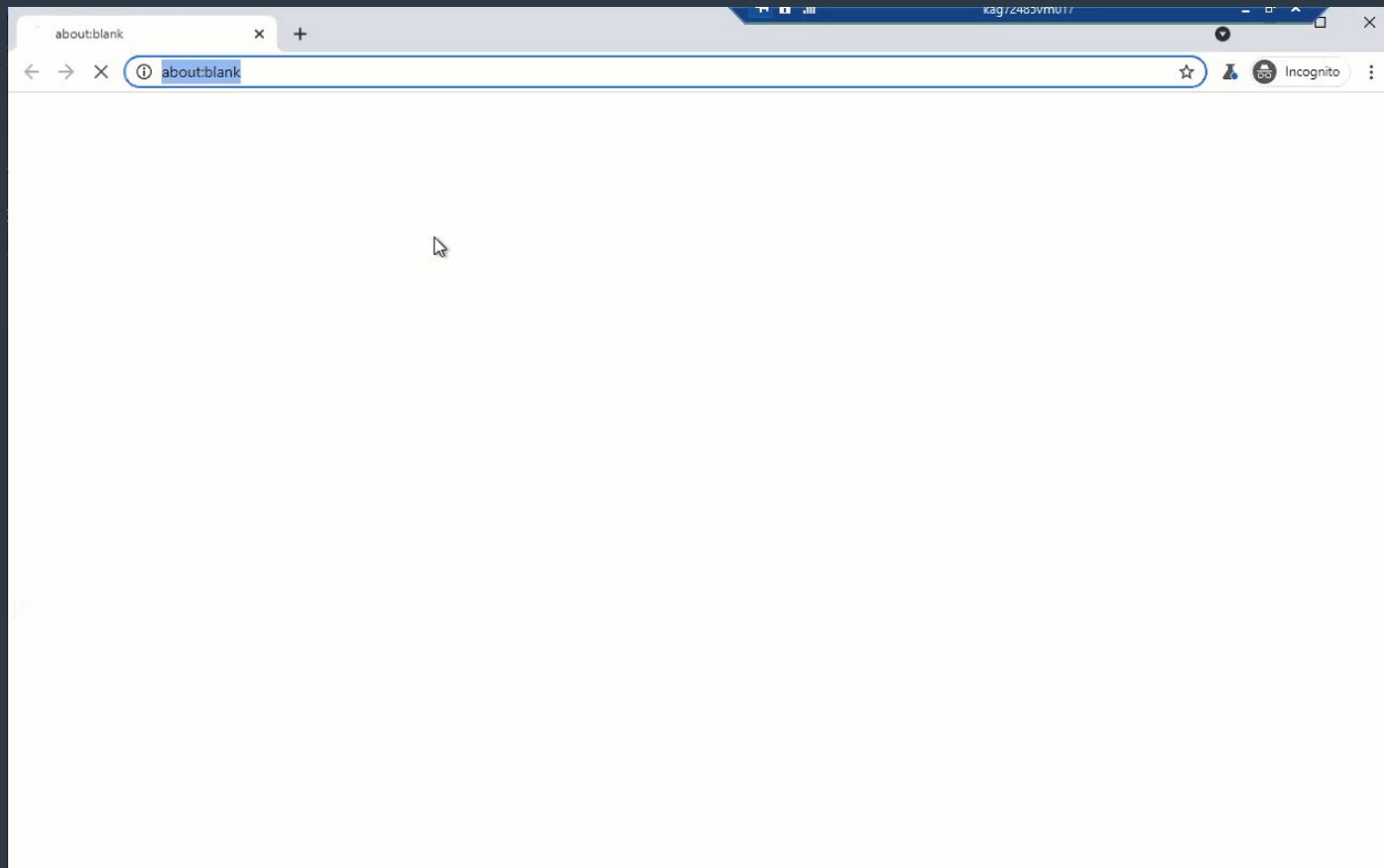


Network topology visualization



Synthetic Monitoring

Demo



Interested in details on Checkmk 2.3?



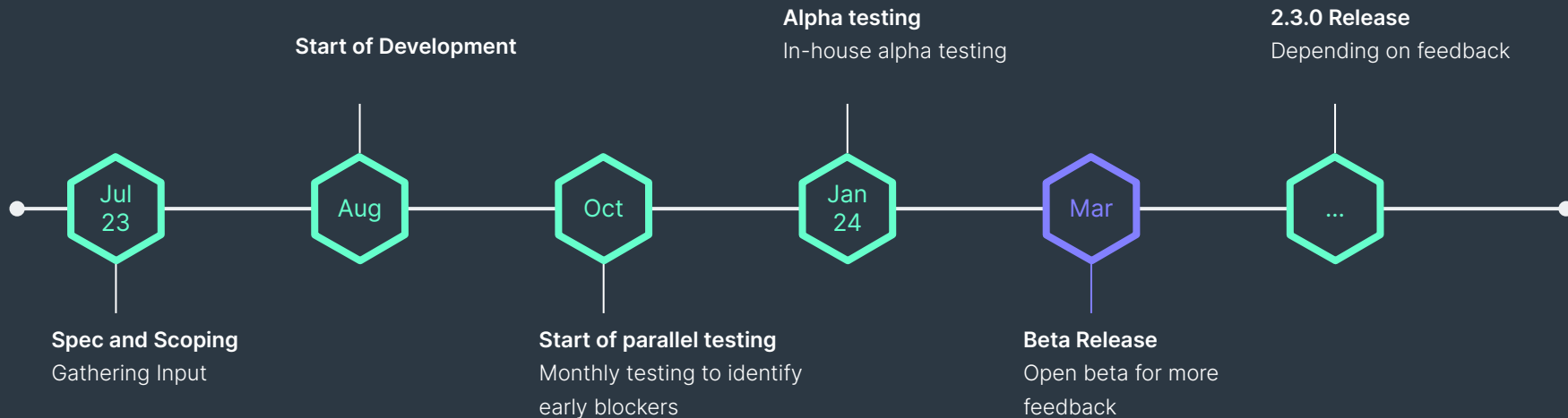
⇒ Many in-depth talks at the Checkmk Conference. Register now!

⇒ Latest version page + blog articles from release day on

The Road to Checkmk 2.3.0



We did more testing than ever before



250+

Issues identified

200+

Issues fixed



142 Up
 0 In downtime
 0 Unreachable
 3 Down
 145 Total



Service Problem

State	Host	Service
CRIT	pve-d.tribe29.com	Need_Restart
CRIT	tra.checkmk.com	Need_Restart
CRIT	er.tribe29.com	Systemd T
CRIT	pbs.tribe29.com	SMART ST8000V Stats

Upgrade Pitfalls

These are the things to watch out for

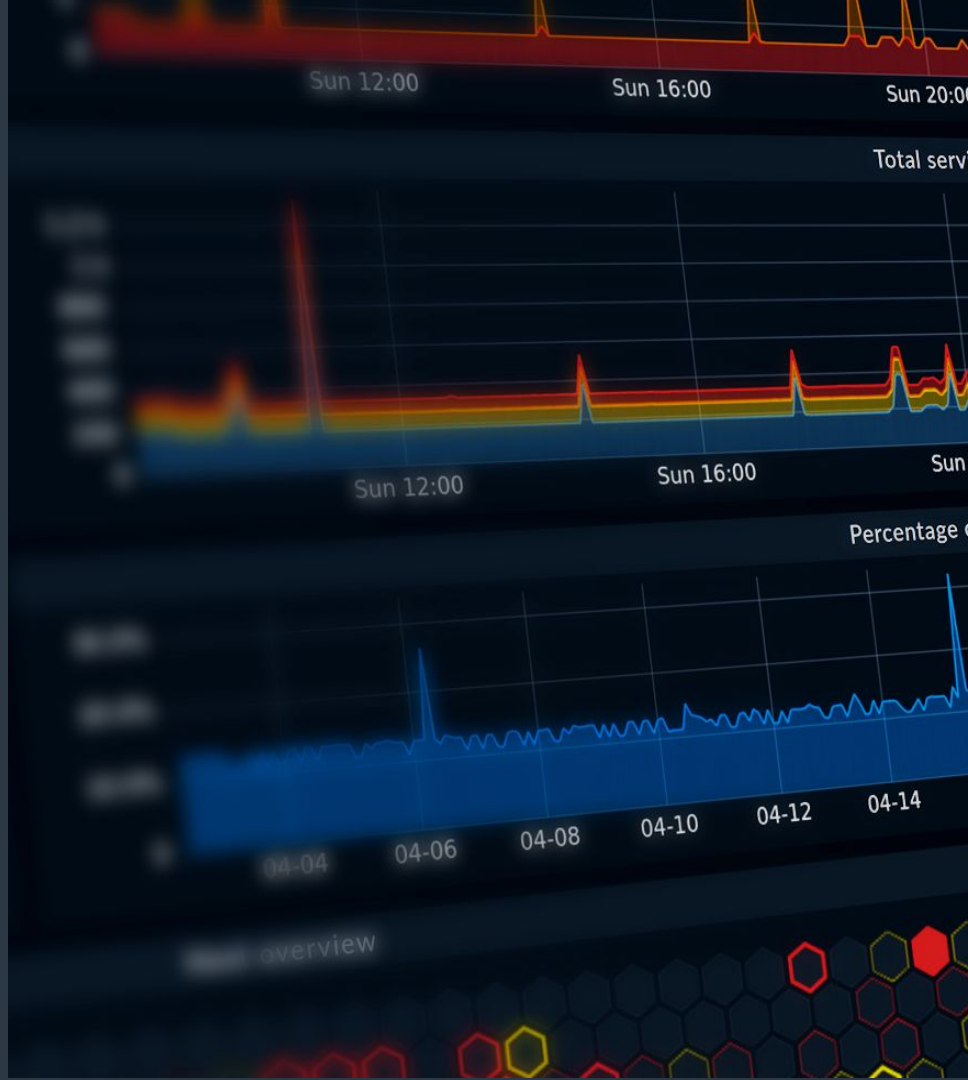


- ⬠ [Werk 15839](#): Connection state of interface on Windows is supported out-of-the-box
This change may lead to critical alerts with interfaces being reported as 'Down' that have been in that state for a long time, but previously were erroneously reported as 'Connected'.
- ⬠ Really look at what the pre-flight omd update check says!
 - ⬠ Fix incompatible 3rd party extensions (MKPs) before the upgrade
- ⬠ Read the incompatible werks
- ⬠ [Upgrade Guidelines](#)
They are not yet complete/polished, but provide already a good overview of what to watch out during upgrade

Call for Feedback

- ◆ APIs for plugin development
 - ◇ With APIs it's always hard to get them right.
 - ◇ Details can be found in [werk 16259](#)
 - ◇ Migrate a few plugins to the new API and tell us about the journey

- ◆ All new features of course...



We offer several ways to give us feedback

- ◆ Service Desk Beta

In case you have a service desk account, this is our preferred channel

- ◆ E-Mail: feedback-2.3-beta@checkmk.com

All emails will be read and assessed, but we cannot respond to everyone

- ◆ About the beta itself

 - ◇ [Beta Survey](#)





Q & A

*Time for some
questions and
answers*

