



Integrating a notification channel in Checkmk

May 21, 2025 - Live from Paulaner am Nockherberg, Munich



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Business Development
Derdack / SIGNAL4

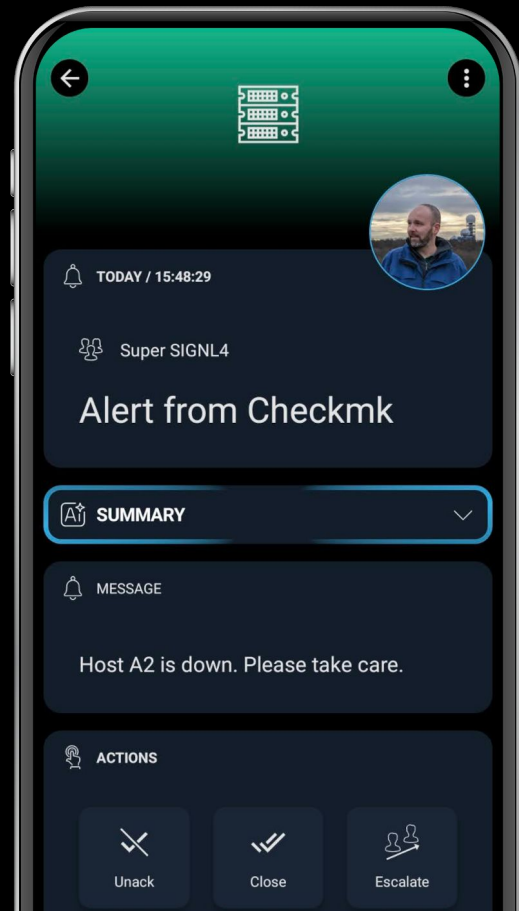
About Me and SIGNAL4

Ronald (Ron) Czachara

- Co-founder Derdack / SIGNAL4
- Business Development, GTM

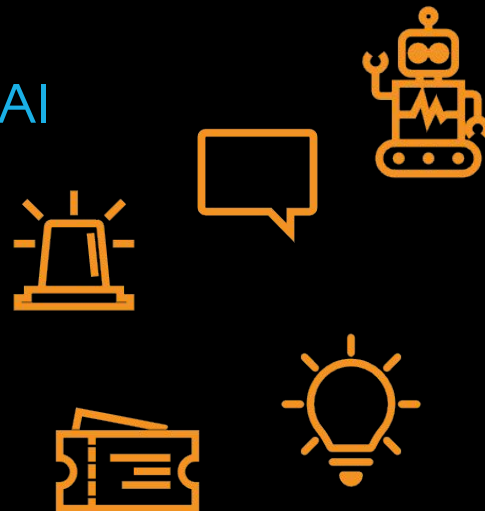
SIGNAL4

- Mobile alerting and anywhere incident management
- Integration with Checkmk



Why another notifications channel?

- When SMS and email are not enough ⇒ Multiple channels, escalation, on-call planning, mobile app, status updates
 - Ticketing, no-code, enrichment, reporting, AI
 - Inspirations for own ideas
- ⇒ Create your own Extension package



Browse through the packages

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SSL-Certificates

by Robert Sander <r.sander@helein-support.de>
Agent Plugin to check SSL certificates in sp...
ata in agent data section is now able to igno...
📅 2 Jan 2019 📊 48971 ⬇️ 19626 ☆ 5.0



Microsoft Teams Notification Plug

by ricardofribelro
Sends notifications to a MS Teams Channel...
and select (***). More Options from the top...
📅 12 Apr 2021 📊 40327 ⬇️ 7968 ☆ 4.7



Robotmk v1 | Robot Framework E

by simonmeggie
Robotmk integrates Robot Framework resul...
📅 1 Jul 2020 📊 37834 ⬇️ 31277 ☆ 5.0



Redfish Restful API Checks

by Andreas-Doehler
- 2.3.20 - fast alles nach 2.3 migriert - 2.3.2...
24 - all migrated - only password cannot er...
📅 22 May 2023 📊 33517 ⬇️ 12583 ☆ 4.0

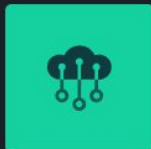


SIGNAL4 - Critical Mobile Alerting

by SIGNAL4 Team
When critical systems fail, incidents happen or urgent services need to be provided, SIGNAL4 bridges the 'last mile' to your staff, engineers, IT admins and workers 'in the field'. It adds real-time mobile alerting to your services, systems and processes in no time. SIGNAL4 notifies thro...
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checkmk
Exchange

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SIGNAL4 - Critical Mobile Alerting

[Description](#)[All versions](#)[Reviews](#)

Description

When critical systems fail, incidents happen or urgent services need to be provided, SIGNAL4 bridges the 'last mile' to your staff, engineers, IT admins and workers 'in the field'. It adds real-time mobile alerting to your services, systems and processes in no time. SIGNAL4 notifies through persistent mobile push, text and voice calls with acknowledgement, tracking and escalation. Integrated duty and shift scheduling ensures the right people are alerted at the right time. SIGNAL4 thus provides for an up to 10x faster and effective response to critical alerts, major incidents and urgent service requests.
Get the app at <https://www.signal4.com>.

Version 2.1.0[Latest version](#)

Note: This version requires Checkmk version 2.0.0 or higher.

exchange.checkmk.com



checkmk



Monitor



Customize



Setup

Package SIGNAL4

Setup > Maintenance > Extension packages > Package SIGNAL4

Package

Display

Help



Save



Extension packages

Package properties

Package name (required)

SIGNAL4

Package version (required)

2.2.0

Minimum required Checkmk version

2.0.0

Valid until Checkmk version

No version limitation



Title (required)

SIGNAL4 - Critical Mobile Alerting

Author

SIGNAL4 Team

Homepage / Download - URL of this pack

<https://github.com/signl4/signl4-integration-checkmk>

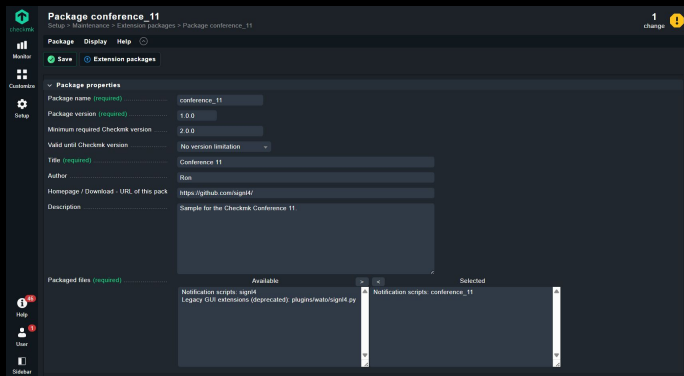
Notification Package (MKP File)

- SIGNAL4-2.1.0.mkp (zip)
 - info
 - info.json
 - notifications.tar
 - **signal4** – Python logic, e.g. sending HTTP request
- web.tar
 - plugins
 - wato
 - **signal4.py** – Config, e.g. API key

Config via YAML now

Create your own Extension Package (MKP)

- Command line: `mkp`
- GUI ...
`/omd/sites/checkmk2/local/share/check_mk/notifications/conference_11`





checkmk



Monitor



Customize



Setup



Help



Create package

Setup > Maintenance > Extension packages > Create package

Package Display Help ^

✓ Save

⬆ Extension packages

Package properties

Package name (required) conference_11

Package version (required) 1.0.0

Minimum required Checkmk version 2.3.0

Valid until Checkmk version No version limitation ▼

Title (required) Conference 11

Author cmkadmin

Homepage / Download - URL of this pack <https://github.com/signl4/>

Description Test script for the Checkmk Conference 11.

Packaged files (required)

Available

Notification scripts: signl4
Legacy GUI extensions (deprecated): plugins/wato/signl4.py

<

Selected

Notification scripts: conference_11

Python and Webhooks

- Messaging and alerting
- Close alerts
- Alert enrichment

```
host_name = context['HOSTNAME']

message = {
    'message': 'Problem on ' +
    host_name
}

resp = requests.post(api_url,
    params=None, data=json.dumps(message))
```

`chmod +x extension.py`

Development and Debugging

- Documentation
- Community
- Check out other packages (Hello world!)
- Test – GUI: Test notification
- Logs
- Request bin



The screenshot shows the 'Notification configuration' page in the Checkmk web interface. The breadcrumb trail is 'Setup > Events > Notification configuration'. The left sidebar contains navigation links: Monitor, Customize, and Setup. The main content area has tabs for 'Notification rules', 'Display', and 'Help'. Below the tabs are buttons for 'Add rule', 'Test notifications', 'Show analysis', and 'Show bulks'. The 'Test notifications' section is active, showing configuration for a test notification. It includes fields for 'Host (required)' (Host-8), 'Simulate' (Status change), and 'Plug-in output' (This is a notification test). There are also checkboxes for 'Send out HTML/ASCII email notification according to notification rules (uncheck to avoid spam)' and 'Advanced condition simulation'. At the bottom of this section are 'Test notifications' and 'Cancel' buttons. Below this is a table titled 'Global notification rules' with columns for '#', 'Actions', 'Type', 'Plug-in', 'Bulk', and 'Description'. The table lists three rules: rule 0 for 'conference_11', rule 1 for 'mail', and rule 2 for 'signl4'. At the bottom of the sidebar, there are 'Help' and 'User' links with notification counts (46 and 1 respectively).

checkmk

Monitor

Customize

Setup

Notification configuration

Setup > Events > Notification configuration

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) Host-8 x

Simulate Status change

From UP to DOWN

Plug-in output This is a notification test

☐ Send out HTML/ASCII email notification according to notification rules (uncheck to avoid spam)

> Advanced condition simulation

Test notifications Cancel

Global notification rules

#	Actions	Type	Plug-in	Bulk	Description
0			conference_11		Notify all contacts of a
1			mail		Notify all contacts of a
2			signl4		Notify all contacts of a

Help 46

User 1

R

rons4
rczachara@de.derdack...

Search...

/

Workspace

Projects

Workflows

Sources

Accounts

Data Stores

Event History

Settings

Resources >

9

Getting Started 2/4

Next: Connect an account

Free

Credits Used 3/100

> Active Resources

> Data Stores

Upgrade

Request Bin

name slug: request-bin • last updated: 3 months ago • created: 4 years ago

EVENTS LOGS CONFIGURATION

2 over last 24 hours

Today

10:31 PM POST /

10:30 PM POST /

Jan 14, 2025

1:26 PM POST /TicketUpdate

1:26 PM POST /TicketUpdate

1:26 PM POST /TicketUpdate

11:42 AM POST /UserCheck

11:37 AM POST /UserCheck

11:19 AM POST /UserCheck

11:17 AM POST /UserCheck

11:12 AM POST /UserCheck

11:07 AM POST /UserCheck

11:01 AM POST /UserCheck

10:50 AM POST /UserCheck

DELETE ALL EVENTS

EVENT 2025-04-04T22:

Raw Pretty Structured

body {1}

bodyRaw

{

"message": "Hello to Munich."

}

client_ip: 84.173.5.220

headers {5}

method: POST

path: /

query {0} Copy Path • Copy Value

url https://b58aee12b873eae71b5db8b4fdc77d78.m.pipedream.net/


INTEGRATIONS


Workflows


CREATE WORKFLOW


View Tutorial (1 minute)

Two-Way Status Updates


checkmk


Monitor





Customize


Setup

Comments of host Host-8

Monitor > Overview > All hosts > Host-8 > Services of host > Comments of host Host-8

Commands Host Export Display Help ^

 Delete comments  Filter ☐ Show checkboxes  Services of host

Author	Comment text
cmkadmin	Acknowledged by SIGNAL4 user: Ron
cmkadmin	Ron: I will take care.

API for Status Updates

Checkmk: Acknowledge and annotate host

POST

http://192.168.2.99/checkmk/check_mk/api/1.0/domain-types/acknowledge/collections/host

Content-Type: application/json


Accept: application/json

Authorization: Bearer cmkadmin *****

```
{
  "acknowledge_type": "host",
  "sticky": false,
  "persistent": false,
  "notify": false,
  "comment": "I will take care.",
  "host_name": "Host-8"
}
```

VS Code
Postman
curlbuilder.com

Summary / Checklist

- Need more than email or SMS?
 - Checkmk Exchange?
- 
- Build your own Extension package (MKP)
 - Use the API for status updates



Checkmk #11 Conference

Questions? Comments?

LinkedIn: Ronald Czachara



