### Checkmk #10



You will love

### Checkmk notifications in 2.4

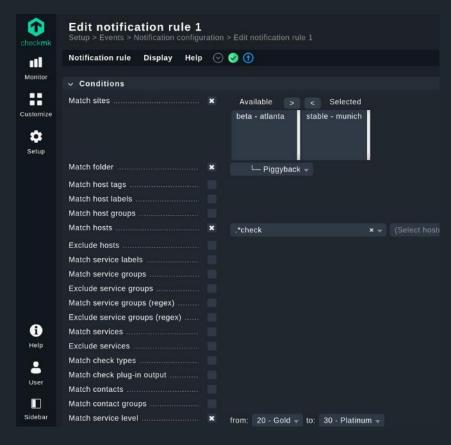


Tanja Hohenstatt
UX Designer
Checkmk GmbH

### The Checkmk notification system is powerful ...







### ... gives you all the tools you need ...



### Setup

Notifications | Contact groups | Time periods

### **Host monitoring rules**

Assignment of hosts to contact groups

Delay host notifications

Enable/disable notifications for hosts

Notification period for hosts

Periodic notifications during host problems

Notified events for hosts

Service level of hosts

### **Service monitoring rules**

Assignment of services to contact groups

Delay service notifications

Enable/disable notifications for services

Notification period for services

Periodic notifications during service problems

Notified events for services

Service level of services

Maximum number of check attempts for service

Parameters for Slack, ServiceNow, Opsgenie, ...

### Other services

Check notification number per contact

### Global settings

Really a lot of options...

### ... but is hard to use



### How to Setup Notification Escalation?

General checkmk-v2-1, notifications



switch609

5h

Hello

I was wondering if it was possible to setup Notification Esclation.

Let says email gets sent out level 1 support if the issue is not acknowledge after 1 hour it then gets escalated to level 2 support team so on so forth.

### Description

Hi Support,

it is possible disable fallback notification? We receive thousands of fallback emails every day for alerts that do not match the notification rules. We would like to avoid this unnecessary email load because it creates load problems for us. We only need to receive notifications that match the rules

Thanks and BR,





## Make configuring, troubleshooting, and optimizing of notifications easy





Disclaimer: Early stage concepts

### A new way to configure notifications



### Add notification rule

Setup > Notifications > Add notification rule

**Concept - Work in Progress** 

Notification rule Related Display Help





### 1 Define host/service events

Define any host or service events you want to be notified about.

2 Specify host/service conditions

Specify conditions to determine which hosts and which services will be affected by this notification rule.

3 Notification flow

Define when and how you want to be notified.

4 Bulk notifications

To reduce the number of notifications, combine multiple successive notifications for the same contact into a single bulk notification that lists all current problems in, e.g., a single email.

5 Review & rule properties

Review your notification rule before applying it. They will take effect right away without "Activate changes".

1

### Define host/service events

Define any host or service events you want to be notified about.

Host events..... Status change ∨ From Any V X Add event Service events... Status change ∨ | From OK V Warn Y Status change ∨ Any V Crit V From to Any ∨ to Status change V Unknown ∨ From

**▶** Next step: Specify host/services

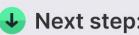
Add event

### **Define host/service events**

Define any host or service events you want to be notified about.

Host events..... Status change > Any Y From Down V to X Select event ... Status change Start / End of downtime Service events... Warn Y to Acknowledgement of problem Start / end of flapping state Crit Alert handler execution Unknown

Add event



**Next step: Specify host/services** 

### Specify hosts/service conditions

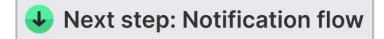
Specify conditions to determine which hosts and which services will be affected by this notification rule.

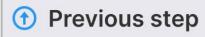
∨ General

Service level.... | Select service level ... \

Folder..... Main V

- > Hosts
- > Services





### **Specify hosts/service conditions**

**Concept - Work in Progress** 

Specify conditions to determine which hosts and which services will be affected by this notification rule.

∨ General				
Service level	∨ Hosts			
Service level	Host tags Select host tags ∨ ♣ Add tag condition			
Folder	Host labels + Add label condition			
> Hosts	Explicit hosts (Regex)			
> Services	∨ Services			
	Service labels + Add label condition			
	Explicit services (Regex)			

Define when and how you want to be notified.

Notify ... all contacts of the notified object ∨ (Assign to contact groups)

+ Add to query

via ...... email > Select email template >

if .......... time v | is v | time period v | Select time period v | x

+ Add to query

**◆** Next step: Bulk notifications

① Previous step

Define when and how you want to be notified.

Notify ... all contacts of the notified object ∨ (Assign to contact groups)

+ Add to query

via ...... email > Select email template >

if .......... time v | is v | time period v | Select time period v | x

+ Add to query

**◆** Next step: Bulk notifications

① Previous step

### Re-usable templates and connections



Contextually edit and create things

**Concept - Work in Progress** 

email ~

Select email template >

Default (HTML)

Default (ASCII)

Edit templates



### Re-usable templates and connections



Contextually edit and create things

**Concept - Work in Progress** 

via ...... Microsoft Teams ∨

Select connection ∨

No connections configured

**+** Add connection



Define when and how you want to be notified.

Notify ... all contacts of the notified object ∨ (Assign to contact groups)

+ Add to query

via ...... email > Select email template >

if .......... time v | is v | time period v | Select time period v | x

+ Add to query

**◆** Next step: Bulk notifications

① Previous step

Define when and how you want to be notified.

Notify ... all contacts of the notified object ∨ (Assign to contact groups)

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via ...... email > Select email template >

if .......... time v | is v | time period v | Select time period v | x

+ Add to query

**◆** Next step: Bulk notifications

① Previous step

Define when and how you want to be notified.

Next step: Bulk notifications

```
Notify ...
         contact group ∨
                            all
and ..... send every ∨
                         5
                               th notification ×
+ Add to query
                    Template 1 ∨
via ......
         email ~
                           time period >
         time >
                                           24X7 - Always V X
                  is
          number of notification ∨
                                    is between ∨
                                                    5
                                                          and | 100
 and V
                                                                    X
+ Add to query
```

**Previous step** 

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4	BUIK	notifications

To reduce the number of notifications, combine multiple successive notifications for the same contact into a single bulk notification that lists all current problems in, e.g., a single email.

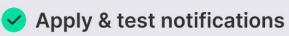
notification that lists all current problems in, e.g., a single email.
Bulk based on Folder    X   Host   Concept - Work in Progress
× Host
Service description
Service level
Check type
Host/Service state
Event console contact
Event console comment
Custom macro
Bulk within 0 hour 1 min 0 sec
Max. bulk size 1000 notifications per bulk notification
Subject Check_MK: \$COUNT_NOTIFICATIONS\$ notifications for \$COUNT_HOSTS\$ hosts (Reset to default
◆ Next step: Review ♠ Previous step

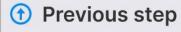
### **Review & rule properties**

without "Activate changes".					
Description					
Setting	<ul><li>□ Disable rule</li><li>☒ Allow users to deactivate this notification</li></ul>				
Comment					

Review your notification rule before applying it. They will take effect right away

Documentation ...







## Updates for notification methods

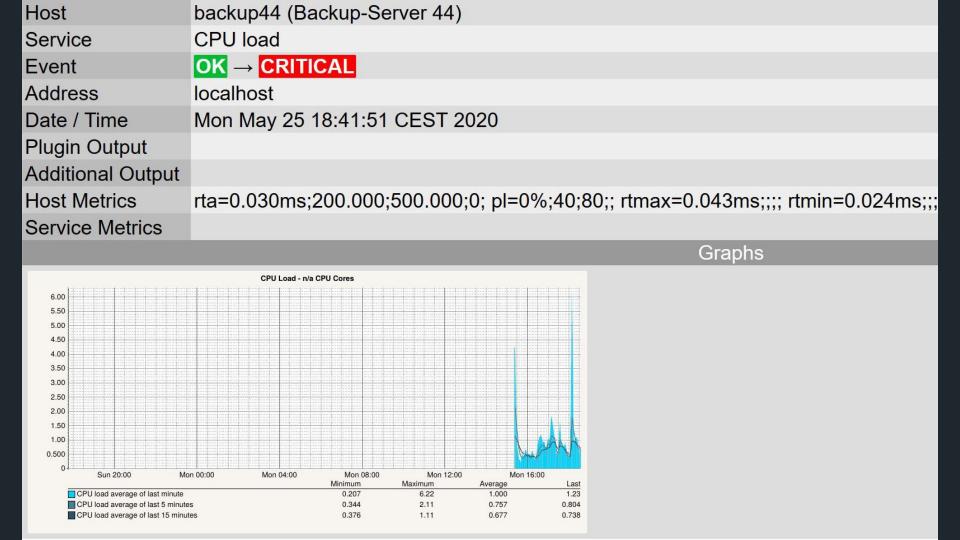






Users are using Checkmk email notifications

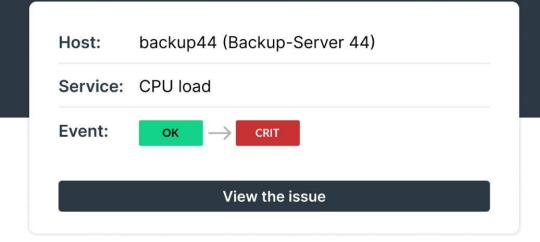












### ♠ Details

Date / Time: Mon May 25 18:41:51 CEST 2024

Address: localhost

**Checkmk** Conference

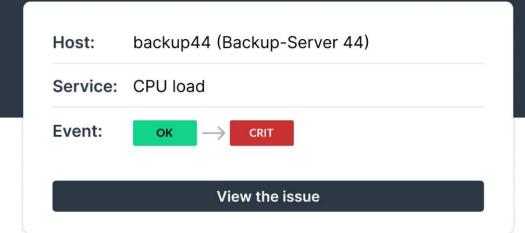








**Focused:** Most important info on top



### 

Date / Time: Mon May 25 18:41:51 CEST 2024

Address: localhost

. . .

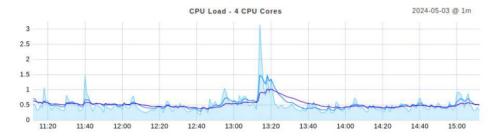
Site: prod

Summary: 15 min load: 6.02 (ok/crit at 4.80/6.00) CRIT

### Service details:

15 min load per core: 1.40 (4 logical core) 1 min load per core: 2.25 (4 logical core) 5 min load per core: 1.39 (4 logical core)

### Graph



	Minimum	Maximum	Average	Last
CPU load average of last 15 minutes	0.37	1.02	0.52	0.51
CPU load average of last 5 minutes	0.29	1.48	0.53	0.48
CPU load average of last minute	0.17	3.14	0.5	0.3
Warning of CPU load average of last 15 minutes				20
Warning of CPU load average of last 15 minutes				





**Focused:** Most important info on top



Modern look and feel:

"New" graphs

### Additional details

Host metrics: rta=0.030 ms — rtmax=0.043 ms

Service metrics: offset=0.002; 200; 500

Notification rule:

→ (#2) Notify all contacts of a host/service via HTML email

### Contact groups

- Test
- Main
- Main IT

### Service labels

state:bavaria

cmk/os\_family:linux





**Focused:** Most important info on top



Modern look and feel:

"New" graphs



**Traceability:** Rule that triggered the notification



### Contact groups

- Test
- Main
- Main IT

### Service labels

state:bavaria cmk/os\_family:linux

Host tags

checkmk-agent checkmk-agent icon

ip-v4v6





**Focused:** Most important info on top



Modern look and feel: "New" graphs



**Traceability:** Rule that triggered the notification



**Informational:** Service labels + Contact groups

Checkmk GmbH, Kellerstraße 27, München, Bayern 81667, Germany, +49 89 998209700

Unsubscribe Manage preferences

# Updates for...



## A new home for notifications







### **Notifications**

Setup > Events > Notifications

### **Concept - Work in Progress**

Notifications Related Display Help

Add notification rule

+ Add email template

Test notifications

■■ Analyze recent notifications

▼ Email templates		▼ Failed notifications		▼ Rules to optimize notifications
# Actions Description  Default (HTML)  Default (ASCII)	Type HTML ASCII	A3 Failed notifications		Monitor Check notification number per contact
▼ Connections		Core status of n	otifications	Delay host notifications 0
Configured iLert  Jira (Commercial editions only)  Microsoft Teams  Slack or Mattermost  More connections		Site central emote1 emote2 emote3	Core status  Notifications enabled  Notifications enabled  Notifications disabled  Notifications enabled	Enable/disable notifications for services



### Same complexity, less complicated





All notification options closer together



Clear and descriptive configuration options



Contextually edit connected options, e.g., time periods



Re-use notification templates and connection





## The notification approach





### Your current starting point

10

Better more than less





Risking spam + alarm fatigue

### Allowlist your notifications

10

Proposal for a new paradigm



**Principle:** "Subscribe" to relevant events, hosts, services



No more "Default" rule: Each rule must be set intentionally



**Avoid spam and alarm fatigue** 



### Missing notifications!



Mitigating the risk



**Extension of notification analysis:** 

Which events were generated resulting in NO notification?



**Test notifications** 



"Fallback email address" still exists



### Allowlist vs. Blocklist



### **Allowlist**

- Only notify what is defined
- Only specified objects/events are actionable/of interested

Risk of forgetting an object/event

### **Blocklist**

- Better more than less
- Everything that is being monitored is important, except for specified objects/events
- Risk of spam and alarm fatigue



### We are looking for your feedback & insights!



Soon: Usability tests and interviews around Notifications

To subscribe: **Scan the QR-Code** or visit **lists.checkmk.com** and look for "Checkmk user experience research".



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