

News in the Micro Core (CMC)



#8273

Recurring Scheduled Downtimes



#8273 Recurring Downtimes

Motivation

Required downtimes on a regular base

Old Situation

- Scheduled Downtimes just happen once
- Notification period clumsy in handling ...
- ... and not filtered out in problem views





New Recurring Scheduled Downtimes

- These are normal scheduled downtimes
- They automatically repeat themselves
- Done by CMC no cron job is needed





They come in two flavours...





1. Adhoc via command

▼ Downtimes	
Schedule downtimes	Downtime Comment: Regular reboot of server
	From now for 60 minutes
	2 hours Today This week This month This year - Remove all
	Custom time range 2015-10-22 2:00 to 2015-10-22 4:00
	flexible with max. duration 02:00 (HH:MM)
	Schedule downtimes on the affected hosts instead of on the individual services
	Repeat this downtime on a regular base every week (This only works when using CMC)





2. Via rule set!

▼ Recurring downtimes for services	
	Comment for the downtime
	First time the downtime starts Year Month Day Hour Minute Sec. 2015 10 9 10 17 56
	Repeat this downtime every week
	Duration 2 hours 0 mins
	 Flexible start time





Advantages of "via command"

- can be done by operator
- no WATO permission needed
- no "Activate Changes"
- same interface as for normal downtimes





Advantages of "via rule set"

- Easy to handle a large number of objects
- Also works for future hosts/services!!





#8275

Alert Handlers



- Perform actions upon alerts
- Independent of notifications
- Can appear on soft state changes
- Can also by triggered at every check execution



Usage:





Rule based configuration

➤ General Properties					
▼ Alert Handler					
Alert Handler	Name of the script	repairthings.sh			
	Call with the following parameters:	-0	4711	force	
	out with the following parameters.				
▼ Matching					
Folder					
Match Host Tags	Agent type:	is Check_MK Agent (Se	erver)		
	Criticality:	gnore •			
	Networking Segment:	ignore •			
	monitor via SNMP:	gnore •			
	monitor via Check_MK Agent:	ignore •			
Match Host Groups					
Match only the following hosts					
Exclude the following hosts					
Match Service Groups					
Match only the following services					
Exclude the following services					
Match service event type					
Restrict to n th to m th check attempt					



Handlers can be

- scripts (just like notifications)
- inline Python code



#8301

cmcdump: New tool for offline mirroring satellite sites into a central site



A new way of distributed monitoring with CMC



- Highly separated networks?
- No access from central site to satellites?

→ cmcdump might be your solution!



Remote Site



Central Monitoring



Step 1: Bring hosts & services to central site

cmcdump -C > file.mk

mv file.mk etc/check_mk/conf.d
cmk -0

Step 2: Regular transport of current monitoring state

cmcdump > state

unixcat < state > tmp/run/live



These things are handled correctly:

- The actual state (PEND, OK, WARN, ...)
- The plugin output
- The long (multiline) plugin output
- The performance data
- Whether the object is flapping and the current level of flappiness
- The time of the last check execution
- The time of the last state change
- The check execution time
- The check latency
- The number of the current check attempt
- Whether the current state is hard or soft
- Whether a problem has been acknowledged
- Whether the object is currently in a scheduled downtime



Downtimes & Acknowledgments

- are being synced correctly, but....
- are handled on the remote site!



Advantages over Multisite

- 1. Does not need network access! (files could even be transported via email)
- 2. Hm...
- 3. Still thinking...
- 4. Seems that was it.



Disadvantages

- 1. Central site can just view, not act
- 2. Additional latency due to transfer period
- 3. No central configuration
- 4. Transfer need to be scripted by you



Level 2 Werks

New Level 2 Werks:

#8093 New option for expiration of acknowledgements

#8065 Direct any verbose or diagnostic output from check_mk or checks to cmc.log

#8129 Create log entries for acknowledgements in monitoring log

#8156 New option for forcing a history logfile rotation based on its size

#8243 Handle and display information about cached agent data in GUI

#8294 Errors in configuration do not prevent the core from being restarted anymore

#8295 Automatically create backup of state file if state shrinks by more than 5% in size



Level 1 Werks

New Level 1 Werks:

#8059 New In-Memory-Cache for availability data is now enabled by default

#8101 Take check period into account when computing the staleness

#8131 Log errors of the RRD creation process into the cmc.log

#8132 New tuning of SMART ping - throttling of PING rate

#8186 The cmc sets HOSTNOTESURL and SERVICENOTESURL for notification plugins

#8306 Log stack trace in case of crash of CMC





Reporting & Availability



#8090 Report Scheduler automatically email reports on a regular base







#8090 Report Scheduler

General Options

▼ General Options	
Report to create	BI Availability
Title	Weekly report on email system
Activation	 do not create this report
Period	Every week on Monday
Time of day to create report at	11:00
Time range to create report for	Last week
Email-Addresses to mail PDF reports to	chef@firma.de
	myself@firma.de
Run report as this user	omdadmin - omdadmin
Options for report emails	□ From: email address
	Reply-To: email addressSubject
	Filename for attached PDF





#8090 Report Scheduler

Select Context

▼ Context / Search Filters		
Comment		Add filter
Service Group		Add filter
Log Entry		Add filter
Service		Add filter
BI Aggregation	Aggregation name	
	Email System	



Further Werks

Reporting

#8123 Fix broken layout of detail pages, add host details to example report #8158 New table layout for reporting

Availability

#8159 Reporting now can show inline timeline and legends of availability views
#8222 Timeline bar and/or the detailed timeline can be rendered in a report
#2301 Availability now allows to just show rows with outage times above certain levels
#2302 Availability: new option in "Labelling" for omitting legend for availability levels
#8296 More precise availability handling of removed and readded objects
#8244 Availability in reporting now supports visual availability levels





News in the Notification System

#2135 filter contacts

#2135 Allow to filter notification contacts based on custom macros





#2135 filter contacts

▼ Contact Selection	
All contacts of the notified object	fied host or service.
All users Notify all users	
All users with an email address	ofigured an email address in their profile
The following users	
The members of certain contact groups	
The following explicit email addresses	
Restrict by custom macros	ro To
Required match (regular expression)
Add condition	



#2195 Match Contacts

#2195 New condition "Match Contacts" in rule based notifications





#2195 Match Contacts

Match Contacts	region - Region Admin
Match Contact Groups ✓	Add contact Available Selected
	Global Admin Region Admin
Match service level	



All new Werks

LEVEL 2

#2195 New condition "Match Contacts" in rule based notifications

LEVEL 1

#2135 Allow to filter notification contacts based on custom macros
#2188 Rule based notification now allow match for notification comment
#2200 filter for (de-)selecting preliminary notifications to "check-mk-notify"
#2304 Bulking: now able to configure the notification sort order in emails
#2432 Forwarded notifications are now visible within the analysis
#2478 Notification plugin for mobile phone push messages via Pushover

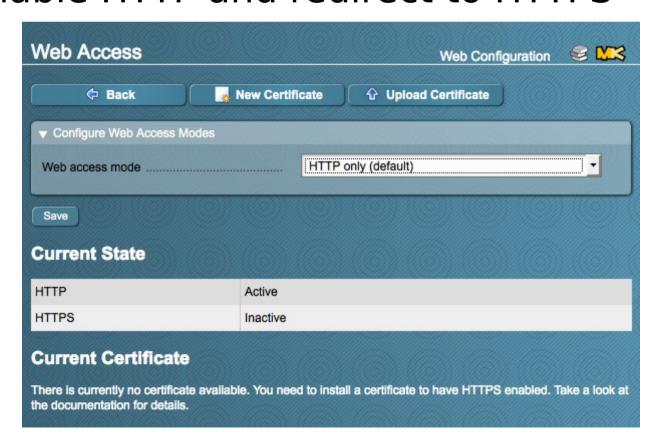




Check_MK Appliance News

Native support for HTTPS 1/3

- You can enable HTTPS and disable HTTP
- More user friendly:
 - Enable HTTP and redirect to HTTPS

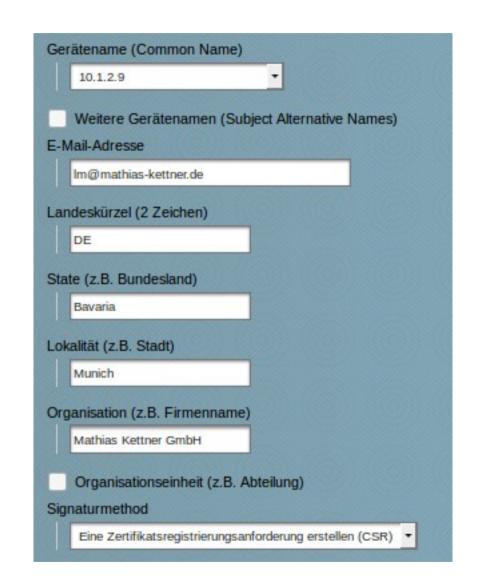






Native support for HTTPS 2/3

- System-Apache is being configured
- Generate key on the device
- Self-sign or download CSR
- Upload keys and signed certificates







Native support for HTTPS 3/3

Aktueller Zustand		
нттр	aktiv	
HTTPS	aktiv	
Aktuelles Zertifikat		
Signiert für		
Land	DE	
State (z.B. Bundesland)	Bavaria	
Lokalität	Munich	
Organisation	Mathias Kettner GmbH	
Gerätename	cma.local	
Signiert von		
Land	DE	
State (z.B. Bundesland)	Bavaria	
Lokalität	Munich	
Organisation	Mathias Kettner GmbH	
Gerätename	cma.local	
Gültigkeit		
Gültig ab	2015-07-21 10:38:34	
Gültig bis	2017-07-20 10:38:34	
Details		
Signaturalgorithmus	sha1WithRSAEncryption	
Fingerabdruck (SHA1)	FE:D0:BD:76:33:4B:B6:94:B0:5C:D6:33:BB:2C:F1:1B:E2:12:B5:A0	
Schlüssellänge	2048 bits	



Local Console Locking

Protect access to the Local Console

- Configured via Console
- Automatically locks after 5 minute idle

Please insert your device password (Keyboard layout: US)	
< OK >	



Remote Management

 Remote Management Interface (IPMI) of Check_MK rack1 is now configurable

▼ Einstellung bearbeiten	
Management Interface	✓ Configure the remote management interface
	IP-Konfiguration
	IP-Adresse
	10.1.2.24
	Netzmaske
	255.255.0.0
	Standardgateway
	Zugangsdaten
	Benutzername root
	Passwort
	Fdsswort



Additional features

- Supporting CEP HT63e UMTS/GSM SMS modem
- Supporting network connected SMS modem
- Administrative Email address can now be configured for sites
- You can now configure DNS search domains
- Advanced Network Config: Added option to revert the currently pending changes
- Check_MK virt1 now supporting Citrix Xen Server and Hyper-V as host system



- Logs of web server can be viewed via log page
- Bonding interface list shows the bonding mode
- Put info about keyboard layout to pw input dialogs
- Showing name of the appliance in web page titles
- Display "updating firmware" dialog during updates
- Added NaviSphere for EMC VNX monitoring



Currently in development

- 64bit-Firmware
 - Makes migration easier
 - Needs new Check_MK rail model

Planned for the near future

- VLAN-Configuration via GUI
- Backup- and Restore-Solution



CHECK_MK KONFERENZ 2015 MÜNCHEN

