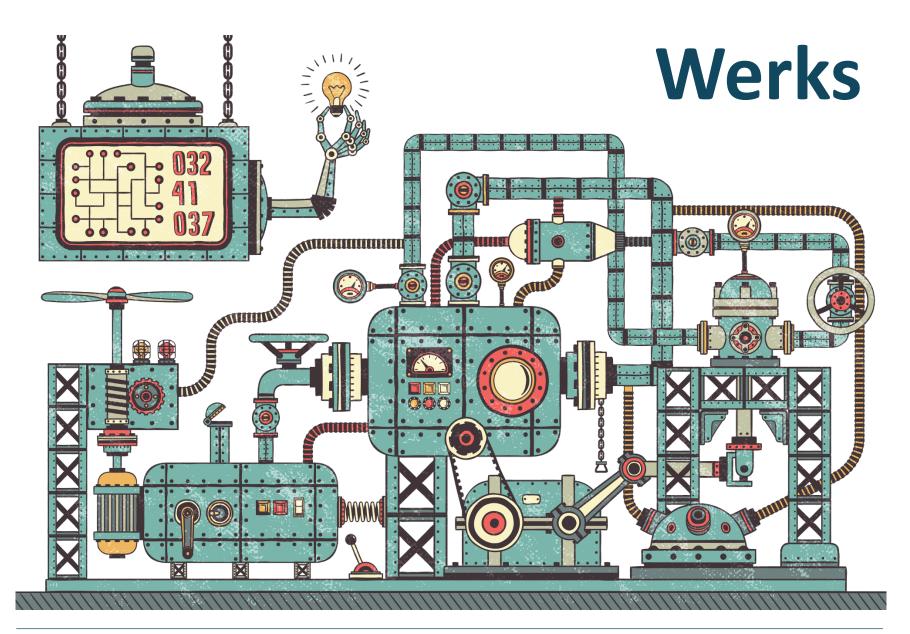






# News in the Event Console

Mathias Kettner





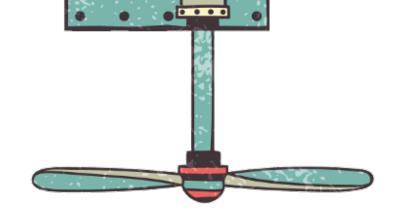
#### **New Feature-Werks**

#3720

```
#4154 #3388 #3887 #3971 #3861 #4151
```

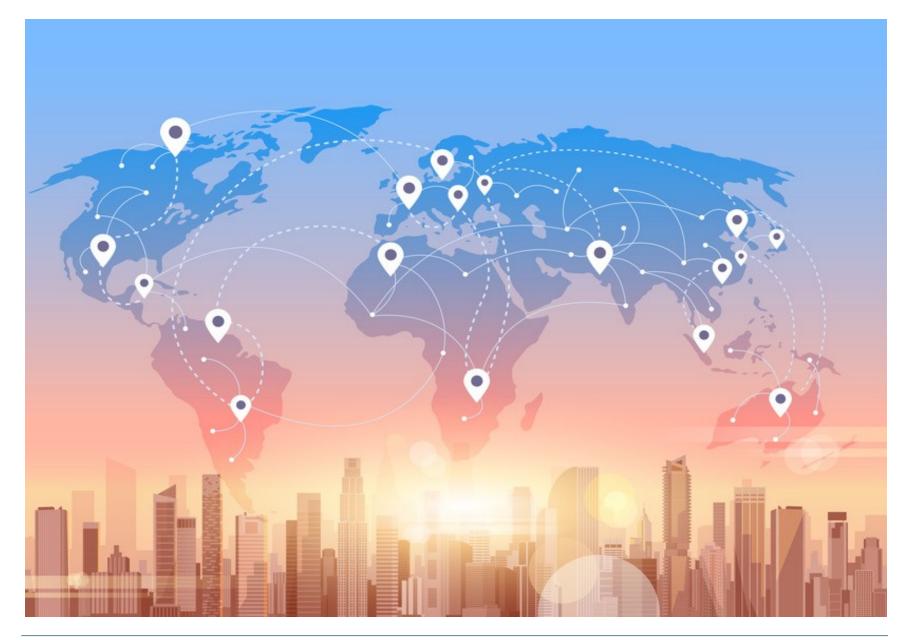
```
#4276 #2903 #3717 #2974 #3656 #3262
#4148 #3390 #4132 #3736 #3716 #4166
#3539 #4286 #4277 #2999 #2733 #1306
```





# Werk #3720 Distributed Setups







#### Situtation in 1.2.8

- GUI always accesses the local Event Console
- This limits you to one Event Console!



#### **Problems with this approach**

- Does not scale well
- Networking problems may arise
- EC has no information about the hosts



### NEW in 1.4.0: Distributed EC via Livestatus

- GUI accesses ECs via Livestatus
- Livestatus is handled by CMC / Nagios
- CMC / Nagios accesses local EC



#### **Advantages:**

- scales better
- no Syslog/SNMP over WAN neccessary
- EC has access to host information



#### **Visibility in status GUI**



- use host information:
  - information about contact groups



#### **Check\_MK-Notifications by EC**



- uses host information:
  - correct host name and alias
  - primary IP address
  - WATO folder and host tags
  - contacts and contact groups
  - Host scheduled downtime

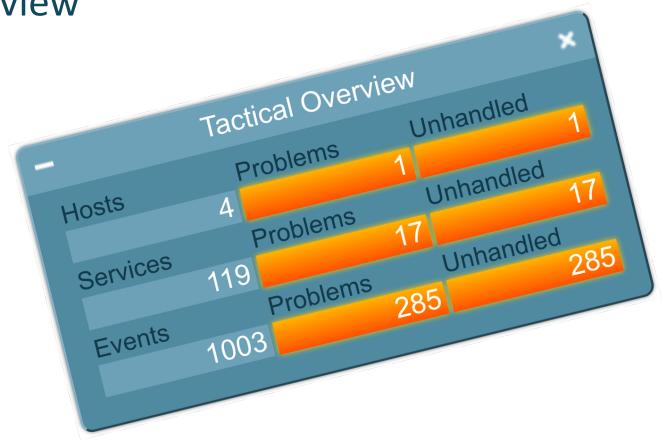




### Werk #3971 Tactical Overview



Events are now being shown in Tactical Overview







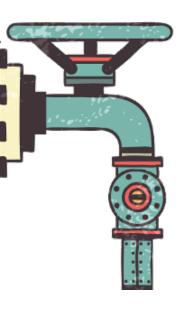
## Werk #2309 Performance Snapin



#### Improved EC Performance snapin

9242.60/s 7753.90/s 9242.60/s
9242.60/s
69.33%
0.00/s
0.064 ms
100%
9242.60/s
0.47/s
5.260 ms
•





# Werk #3388 SNIPv3 Traps



Event Console can now process SNMPv3 traps

Description				
	Receive V3 Traps			
SNMP credentials				
	Credentials for SNMPv3 with authentication and privacy (authPriv) ▼			
	Security Level	authentication and encryption		
	Authentication protocol	MD5 ▼		
	Security name	xyz123		
	Authentication password			
	Privacy protocol	AES▼		
	Privacy pass phrase			



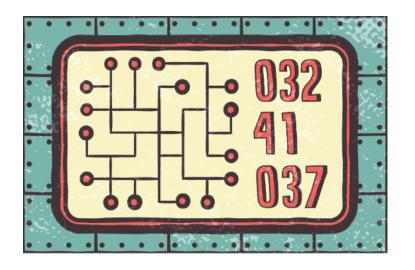
### Werk #3539 Master Control



### Notifications switch is now also effective for EC notifications







# Werk #2309 Event Simulator



#### Added "Service Level" to event simulation

▼ Event Simulator			
Message text	Still nothing happened.		
Application name	Foobar-Daemon		
Host Name	myhost089		
IP Address	1.2.3.4		
Syslog Priority	notice ▼		
Syslog Facility	user ▼		
Service Level	20 - Gold ▼		
Simulate for site	beta - Der Master▼		



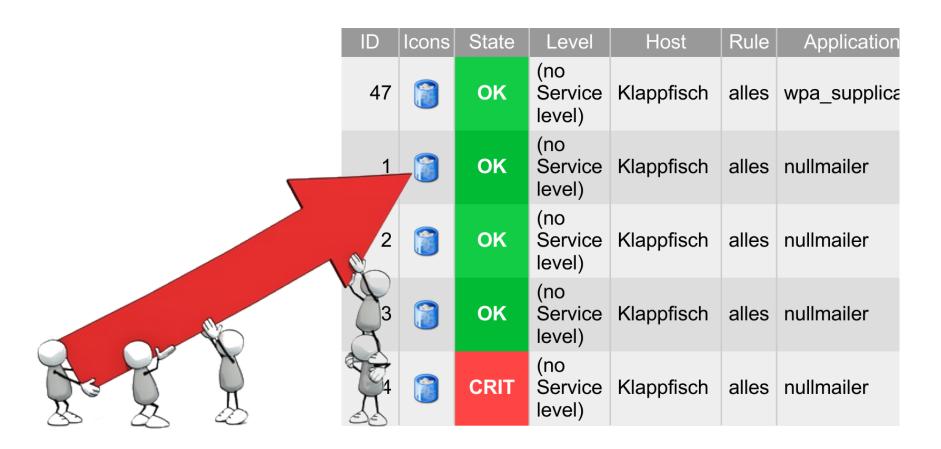


### Werk #4166 Archive host's events

Werk #2974
Archive-Icon

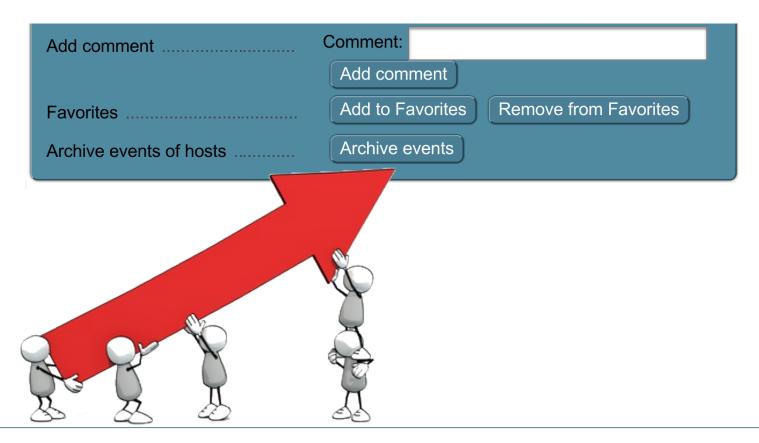


#### Added short cut icon 'archive this event' to Event Console events view

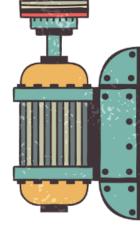




### New view command: archive events of a host







### Werk #3736 Discontinue Counting

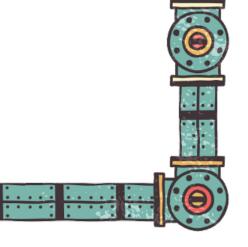


New option for discontinuing counting on open events after configured time



Count until triggered: Time period for counting: days hours mins secs Algorithm: Interval Discontinue counting after time has elapsed Count only for days 0 **hours** 30 mins Continue counting when event is acknowledged Force separate events for different **hosts** Force separate events for different applications Force separate events for different match groups





## Werk #3861 Overflow protection



#### **Design target**

Keep EC operational even in abnormal situations, e.g.

- ... one host goes crazy
- ... one type of message floods everything



Introduced open event limit mechanism for protecting against message storms

- Limits currently open events
- Individual limits:
  - per host
  - per rule
  - total

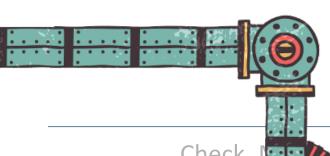


### Possible actions in case of flood (configurable)

- Stop creating new events
- Create (one last) overflow event
- Notify contacts of bogus host
- Notify "administration" contacts



# Werk #2733 Werk #4151 Event <-> Contact





Visibility of Event Console events more flexible now

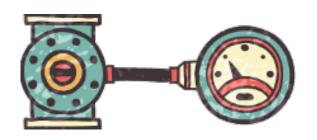
- Choose whether contact groups of host or of rule have precedence
- Also influences notifications



Use notification fallback also for hosts not known to the monitoring

- In case host not found in monitoring and no contacts in rules
- Makes sure somebody gets notified





#### **Further Werks (1)**

- **#4276** Actions can now access the event macros via environment variables
- **#3656** Added support for syslog messages produced by Aristana devices
- #3262 Bulk delete button for custom MIBs now available
- #3390 Events can now be cancelled by the syslog application
- **#4132** Monitoring notifications: Add EC\_ORIG\_HOST to notifiation context



#### Further Werks (2)

- **#3716** New sites now have a default rule pack from the start
- #4286 SNMP MIBs of the Event Console can now be packed using MKPs
- **#4277** Script actions: New event macro ORIG\_HOST
- **#2999** The contact name is now included in Event Console notifications
- **#1306** Recent event history can now be filtered by extended regular expressions
- **#3717** Added search to EC settings and structured the options in multiple settings

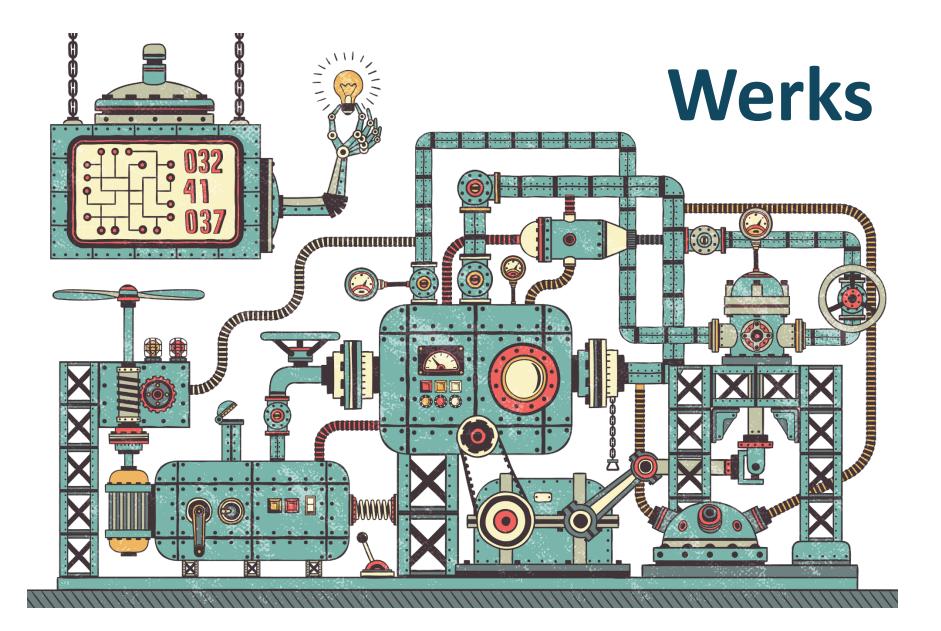






## News in the Notification Module

Manfred Brunner





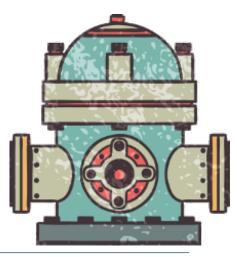
#### **New Feature-Werks**

```
#8637 #8555
```

```
#8617 #8330 #8200 # #3972 #3957
#3886 #3532 #3263 #3140 #2935 #2811
```



# Werk #8637 #8555 Notification Spooler





Check\_MK Notification Spooler is always enabled now.

#### Werk #8555

Enable local asynchronous notification delivery using mknotifyd by default.



#### **New Standard! Asynchronous delivery**

- Every notification will be saved to a spool file
- No jam can build up.
- If the monitoring is stopped the spool files will be retained, later be delivered correctly.



mknotifyd: now supports concurrent delivery of notifications and passes completion results back to the core.





#### failed\_notifications

Time	Contact	Command	Event	Host	Service	State	Output	Comment
37.8 s	Manfred	mail	SERVICE NOTIFICATION RESULT	heute	CUPS Queue HP_Officejet_Color_MFP_X585	CRIT	Unhandled exception: Failed to send the mail: /usr/sbin/sendmail is missing	Unhandled exception: Failed to send the mail: /usr/sbin/sendmail is missing
37.8 s	Manfred	mail	SERVICE NOTIFICATION RESULT	heute	CUPS Queue HP_Officejet_Color_MFP_X585_2		Unhandled exception: Failed to send the mail: /usr/sbin/sendmail is missing	Unhandled exception: Failed to send the mail: /usr/sbin/sendmail is missing

```
OMD[heute]:~/var/check_mk/notify/spool$ ll
insgesamt 856
-rw-r--r-- 1 heute heute 4510 Apr 24 10:01 00b0943d-c361-4be9-8fd6-89a25bb4d6c4
-rw-r--r-- 1 heute heute 4535 Apr 24 10:01 02f34446-2c51-4c2c-9f7e-641f37315b92
```

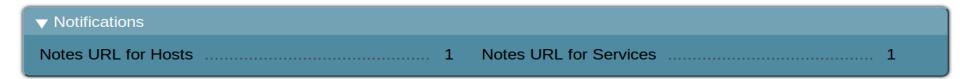




## Werk #2811 #3957 Mail body



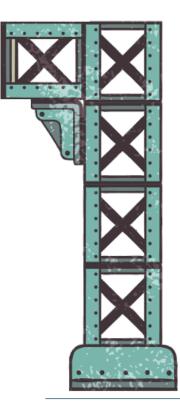
You can now configure to add the host/service notes url to the email body.



Actions	Conditions	Value
	■ Host name is <b>SRV1</b>	http://www.mein-wiki.intern.com/\$HOSTNAME\$

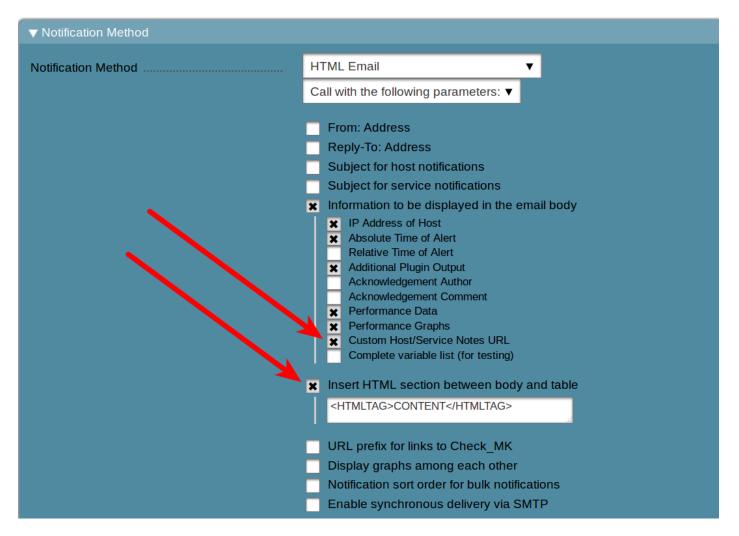


Now allows extra HTML section between body and table





#### Werk #2811 #3957







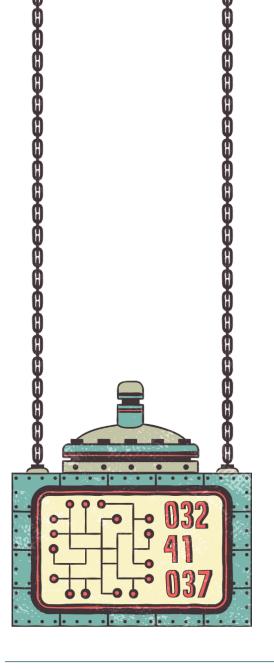
## Werk #3972 Bulk notifications



New feature: bulk notifications based on Event console contacts

▼ Notification Method	
Notification Bulking	Time horizon  Bulk up to 0 days 0 hours 1 mins 0 secs
	Maximum bulk size  Bulk up to 1000 Notifications
	Create separate notification bulks based on  Folder Host Service description Service level Check type Host/Service state Event console contact
	Create separate notification bulks for different values of the following custom macros



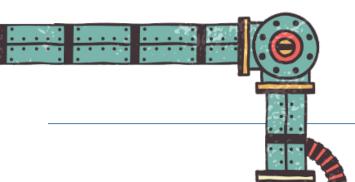


# Werk #3532 New conditions



Rule based notifications: Three new conditions for service groups matching.

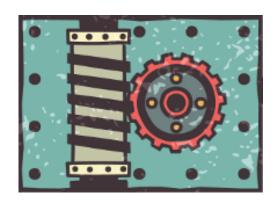
- Exclude Service Groups (Duallist Choice)
- Match Service Groups (Regex)
- Exclude Service Groups (Regex)





▼ Conditions	
Match site	
Match folder	
Match Host Tags	
Match Host Groups	
Match only the following hosts	
Exclude the following hosts	
Match Service Groups	
Exclude Service Groups	Available > < Selected
	All Filesystems ^
Match Service Groups (regex)x	Match the internal identifier ▼
Exclude Service Groups (regex)	Match the internal identifier ▼

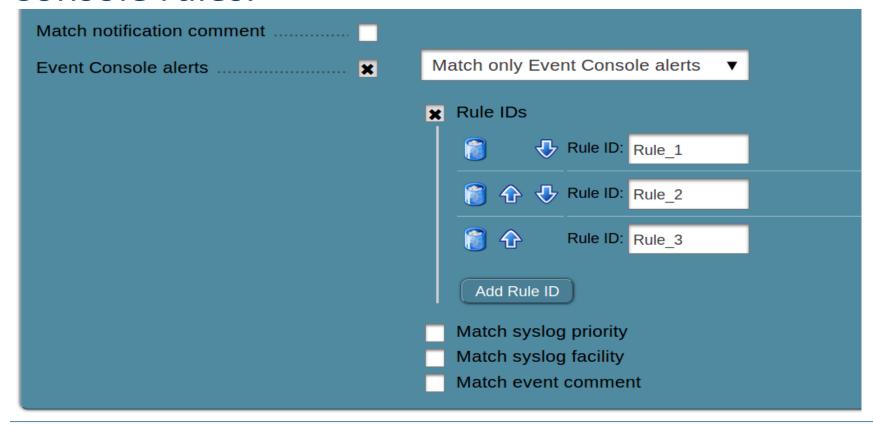




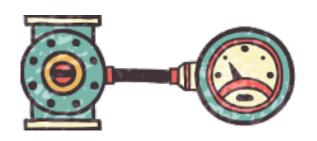
# Werk #2935 Match of Event Console rules



A notification can now match multiple Event Console rules.







#### **Further Werks (1)**

- #8200 Notifications/Alerts: New environment variables MAXSERVICEATTEMPTS, MAXHOSTATTEMPTS
- **#3886** Notifications that do not match any rule are sent to fallback mail / contacts
- **#3263** allow users to restrict by their contact groups
- **#3140** mail notification script can now optionally connect directly to a smtp server instead of using sendmail.



#### Further Werks (2)

**#8617** Alarmspooler: log successful TCP connects

**#4286** SNMP MIBs of the Event Console can now be packed

using MKPs







### Business Intelligence

Marcel Arentz

### Rules/Views #2882



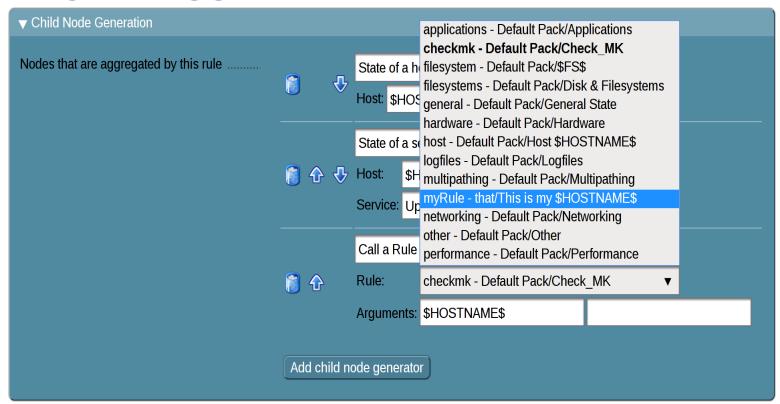
- Reorganizing rules into packs
- Now able to set contacts / permissions
- Share rules between packs













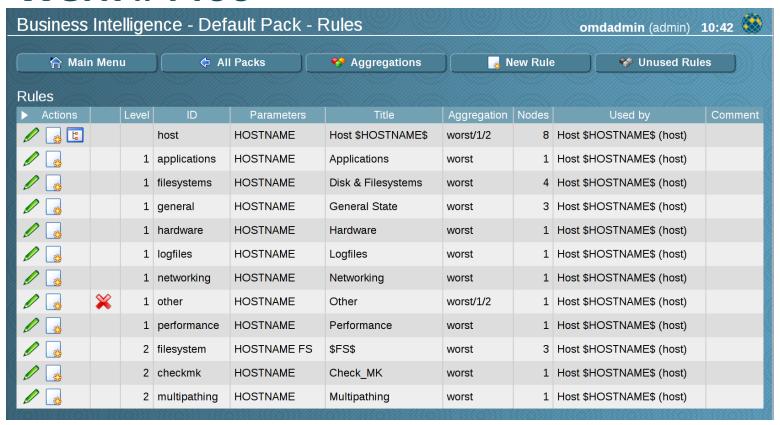
#### Rules/Views

#3873 #3955 #3449



- Availability of copying/deactivating of rules
- Renaming of rule ID
- Host alias available in rules







#### Rules/Views #3271



- Aggregation of downtimes
- CRIT as default
- Configurable to WARN





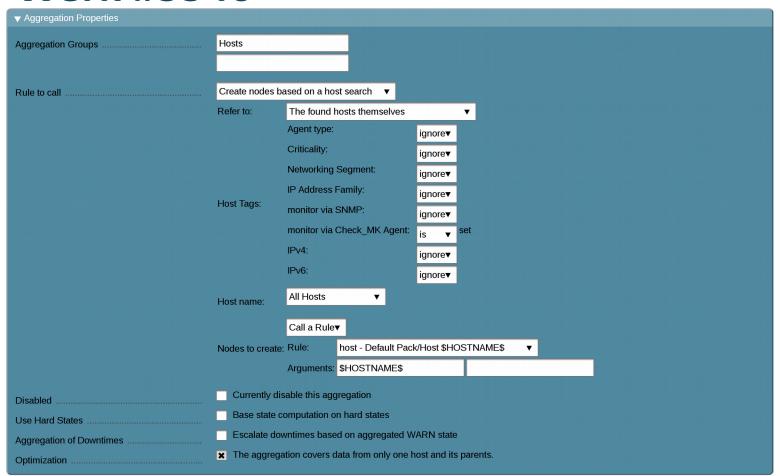


Performance #3396 #3546



- Precompile aggregations on demand
  - new default: ON
- general improved performance
- Especially for single aggregations





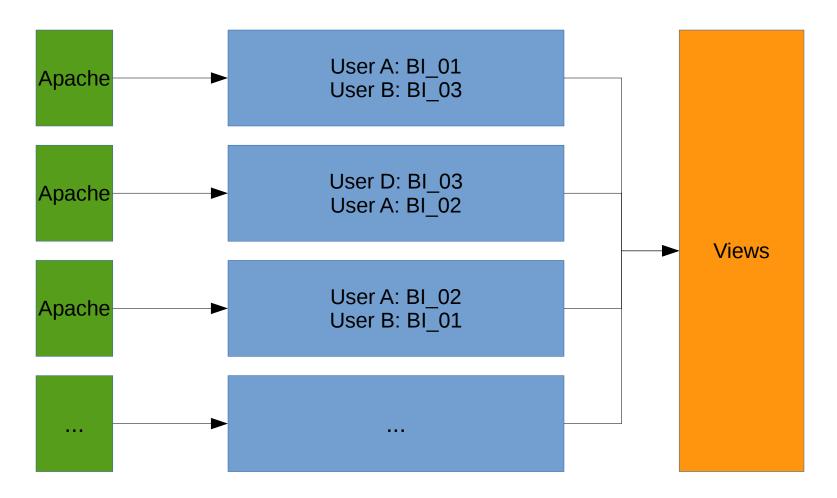


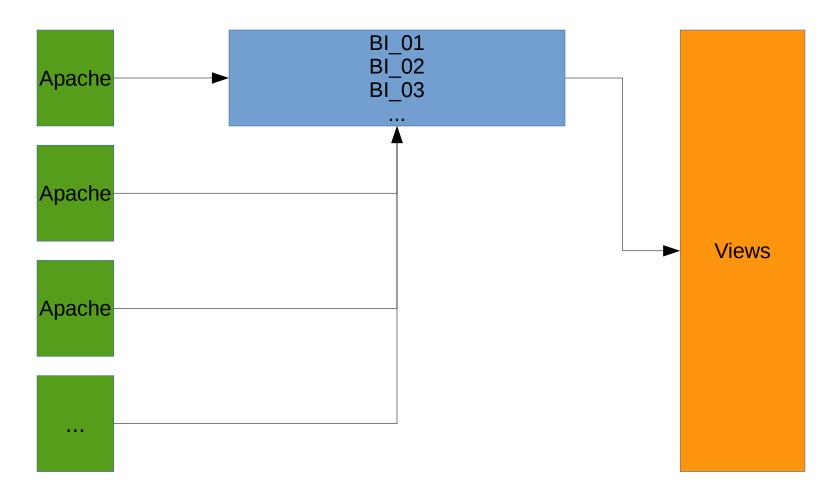
#### Performance #4002 #4469



- Major rework of Code
- drastically sped up performance
- Further improvements planned









Old	New
Computation time per apache: 3 aggr: 70 sec	Computation time for 3 aggr: 40 sec (time of slowest)
200 apaches and 8 Cores: 70 * 200 / 8 = almost 30 min.	200 apaches and 8 Cores: 40 sec
Computation time per apache: 100 BI's: 20 seconds	Computation time for 100 BI's: 2.5 sec
200 apaches and 8 Cores: 20 * 200 / 8 = more than 8 min.	200 apaches and 8 Cores: 20 / 8 = 2.5 sec



Old	New
Distributed Monitoring with n sites, 600 aggr and 100ms latency:	Distributed Monitoring with n sites, 600 aggr and 100ms latency:
<ul> <li>one query for each aggr</li> <li>~60 seconds to get the data</li> <li>plus 3 seconds computation time</li> </ul>	<ul><li>evaluate needed data</li><li>one query for all the data</li><li>2 sec for parsing the data</li><li>plus 3 seconds computation time</li></ul>
= 63 sec	= around 2+3 sec







### Thanks for listening!

YOUR FEEDBACK IS WELCOME