



CHECK_MK

CONFERENCE #3

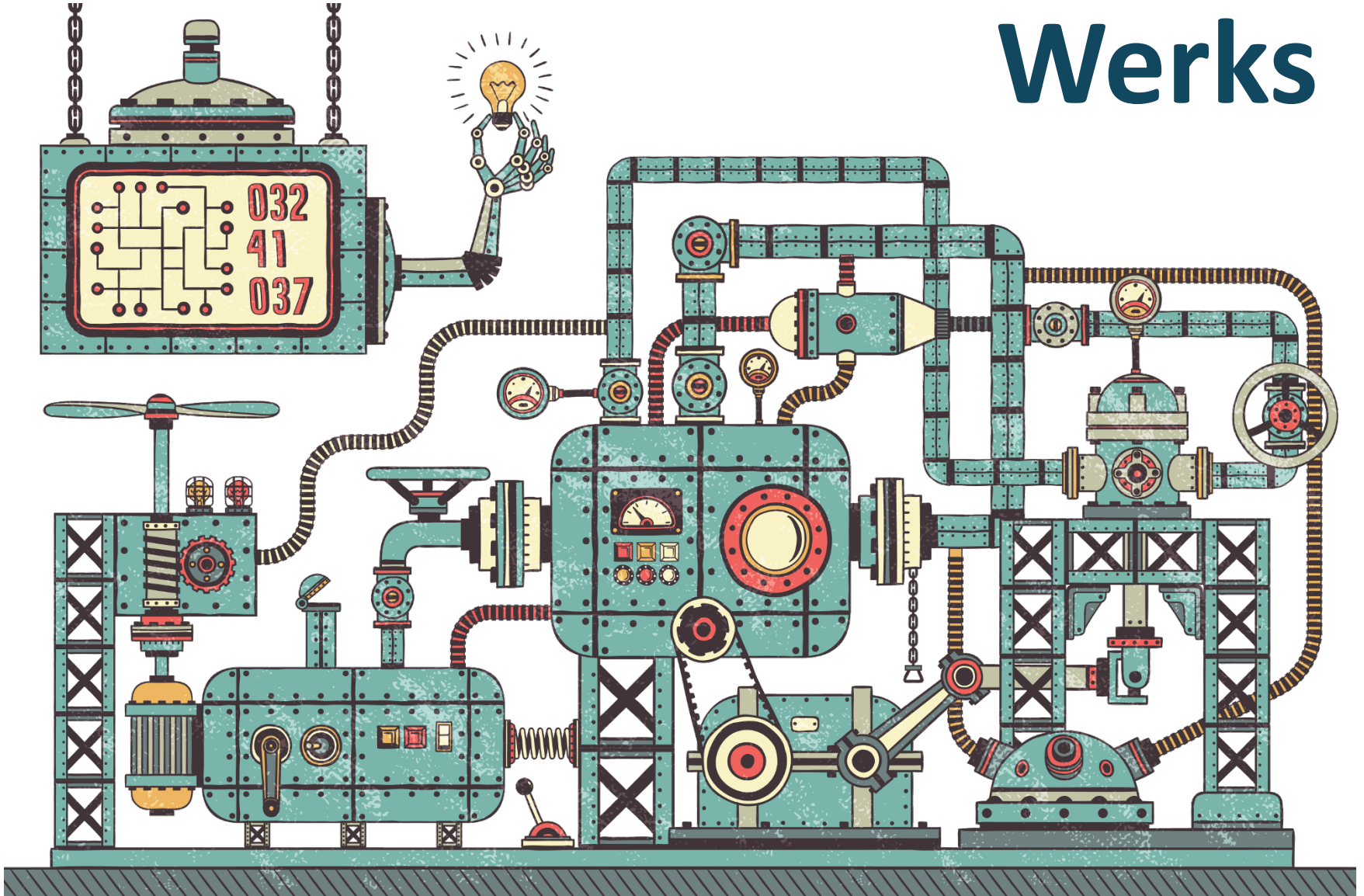
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New in the Metrics System

Mathias Kettner



Werks



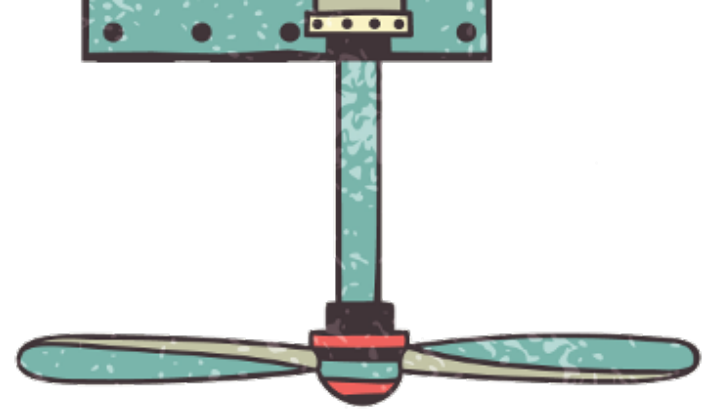
New Feature-Werks

#4205 #8394

#2929 #8344 #8353 #8378 #8395 #8643

#3891 #4477 #4484 #4500 #8547 #8549
#8621 #8641 #8694 #8696





Werk #8394

Custom Graphs



Werk #8394

New graph designer for creating custom graphs

- Complete free selection of metrics
- Combine metrics from different hosts and services
- Even metrics from different sites
- Everything done via GUI





Wow. I hope we
see **that** live!































Werk #2929

Metrics Table



Werk #3388

Show all metrics of a service in a nicely formatted table in the service details

	Average disk I/O-queue length:	0	
	Average disk latency:	391 µs	
	Average read request size:	11.88 kB	
	Average request size:	15.62 kB	
	Average write request size:	18.61 kB	
	Disk utilization:	0.84%	
	Read operations:	9.55/s	
	Read throughput:	227.00 kB/s	
	Read wait Time:	279 µs	
	Request wait time:	946 µs	
	Write operations:	11.93/s	
	Write throughput:	444.07 kB/s	
	Write wait time:	1.48 ms	





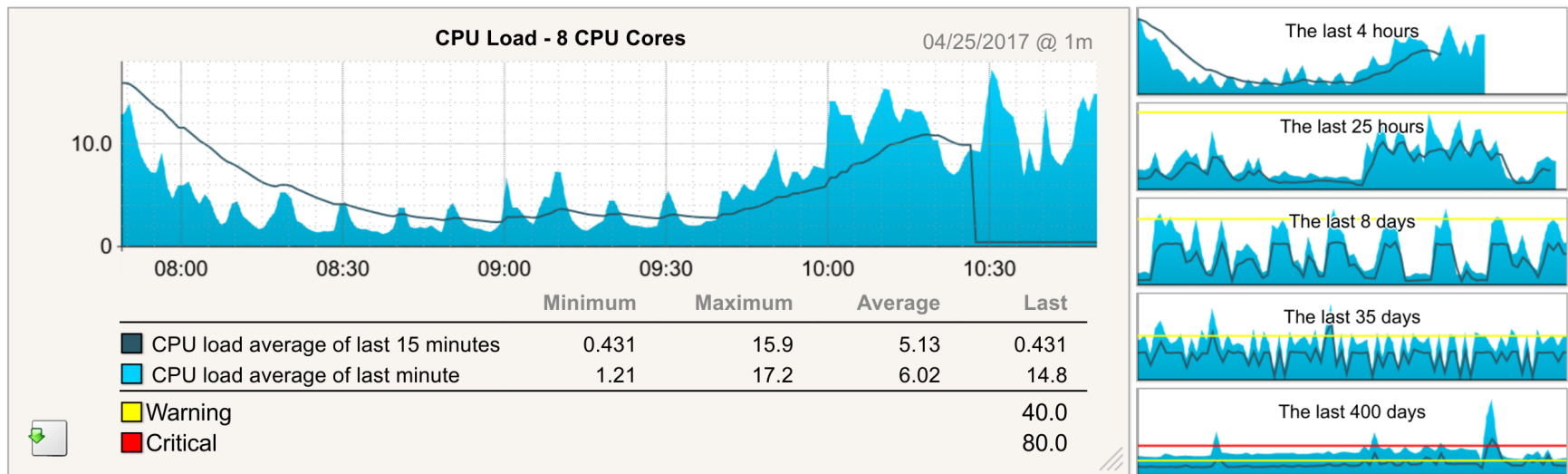
Werk #8378

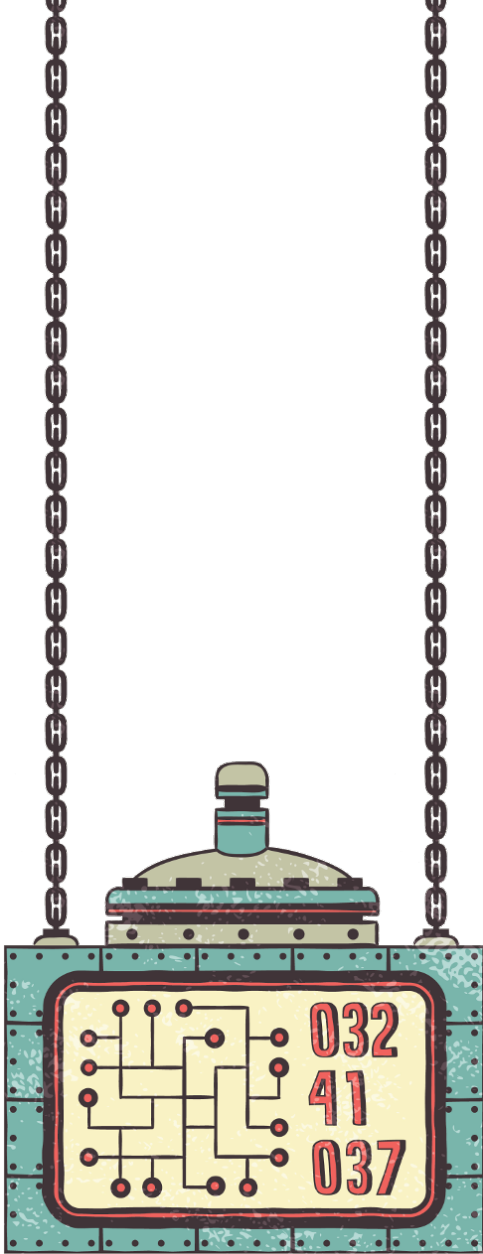
Graph Overview



Werk #8378

Added graph overview page with time range selection for graphs of hosts/services





Werk #8353 New RRD Format



History, part 1 - The Ancient Times

PNP4Nagios created one RRD per Service.

- One disk write per RRA - regardless of number of metrics
- **No changes in number of metrics allowed!**
- Graph would simply end in that case



History, part 2 - Flexibility

PNP4Nagios creates one RRD per **Metric**.

- Metrics may come and go as the wish
- Everything works without hassle now
- **But: More Disk-I/O needed!**





History, part 3 - The Break Through



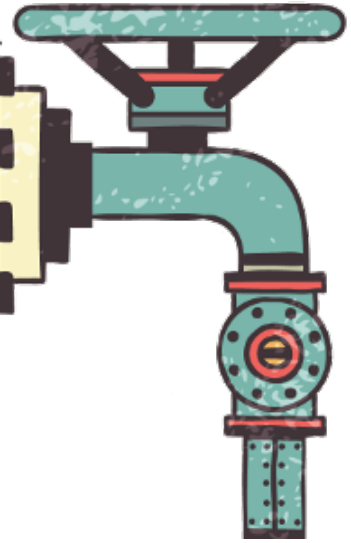
- Back to one RRD per service
- But: new RRDTool can modify existing RRDs!
- CMC automatically detects new metrics...
- ... and adds them to the RRD



Details about the RRD Format

- RRDs now in `var/check_mk/rrds`
- Configuration per Service via ruleset
- New format default for new installations
- Migration online with `cmk --convert-rrds`
- Needs CMC (Enterprise Edition)



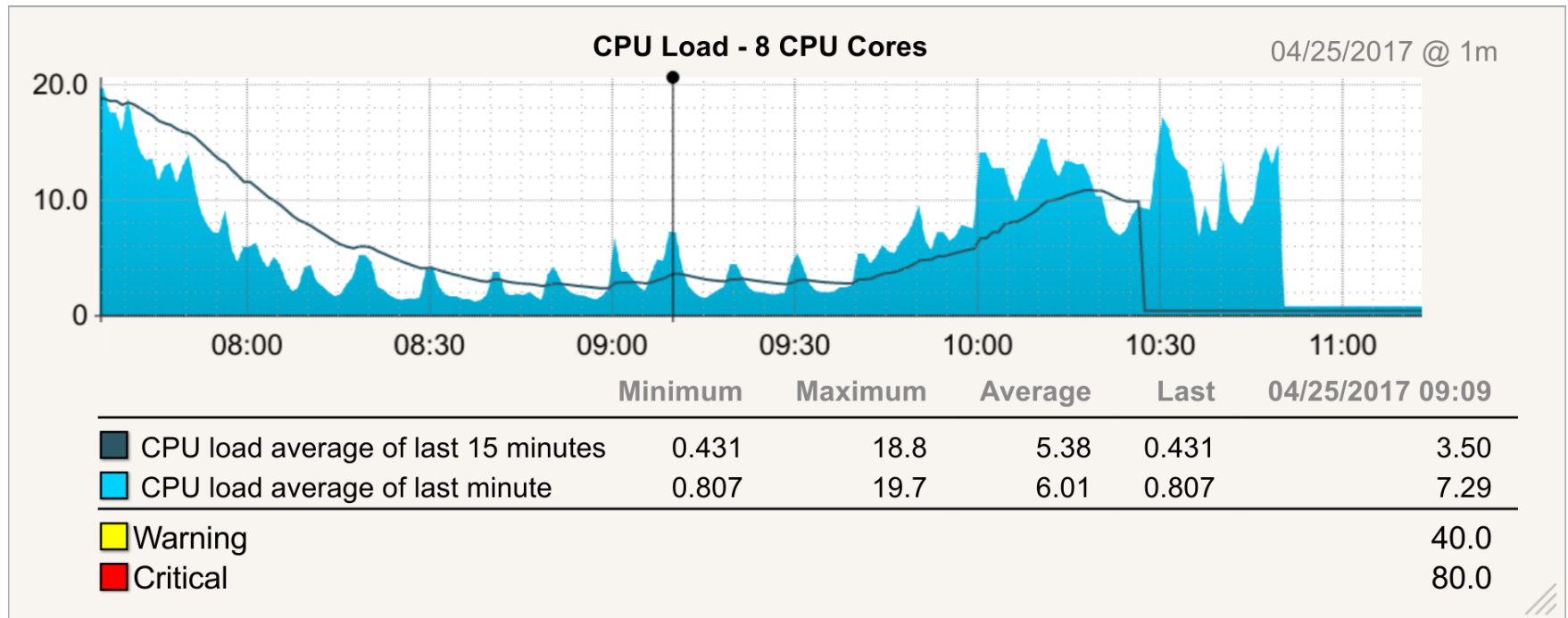


Werk #8344 Pin



Werk #8344

Users can now add a pin to graphs to get specific values



Details about the Pin

- Time position is persisted per user
- Pin is show in **all** graphs
- This makes comparing graphs easier





Werk #8344

API to graph data



Werk #8344

Web API: New API for fetching graph data

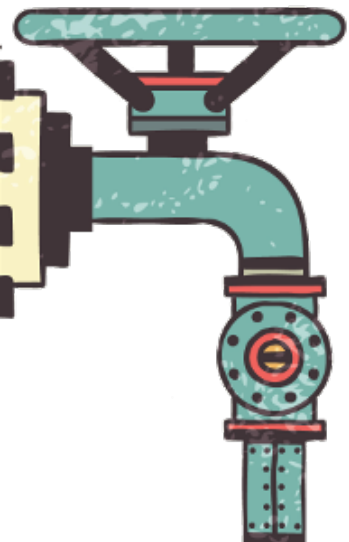
- Access to graph data via HTTP/JSON
- This is preprocessed - not just bare RRD data
- Also works in distributed environment



Example result (JSON)

```
{
  "result": {
    "step": 60,
    "start_time": 1480653120,
    "end_time": 1480667520,
    "curves": [{
      "color": "#87f058",
      "rrddata": [
        null, null, 0.05, 0.059, 0.0423333, 0.0488333,
        0.0515, 0.05, 0.05, 0.05, 0.05, 0.058, 0.052,
        0.0453333, 0.0576667, 0.0525, 0.05, 0.0573333,
      ],
      "line_type": "stack",
      "title": "CPU time in user space"
    }],
  },
  "result_code": 0
}
```





Werk #4205

Combined Graphs



Werk #4205

You can now combine several graphs into one

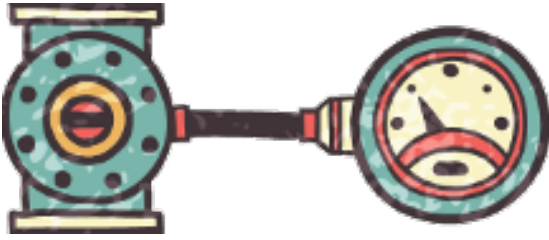
- Simply select multiple services
- And then hit new button **Combined Graphs**
- All metrics of same type are show together
- Choose between Sum, Average, Lines, ...
- **Easy!**





Impossible!





Further Werks (1)

- #3891** Changed graph time range choices
- #8696** Graph collections can now be added to reports
- #4500** Graph designer: Hex codes can now be inserted into color picker manually
- #8621** Graph designer: Host names are now auto completed
- #8547** Graph legend and controls can now be enabled/disabled through view display options



Further Werks (2)

- #4484** Graph time range previews can be disabled, default can be set
- #4477** Now graph time ranges are configurable
- #8694** Scalars (warn, crit, min, max) of perfdata can now be added to custom graphs
- #8549** Views: Time graphs can now be configured not to have a legend or controls
- #8641** Views: Time range selected by panning is respected in PDF exports now



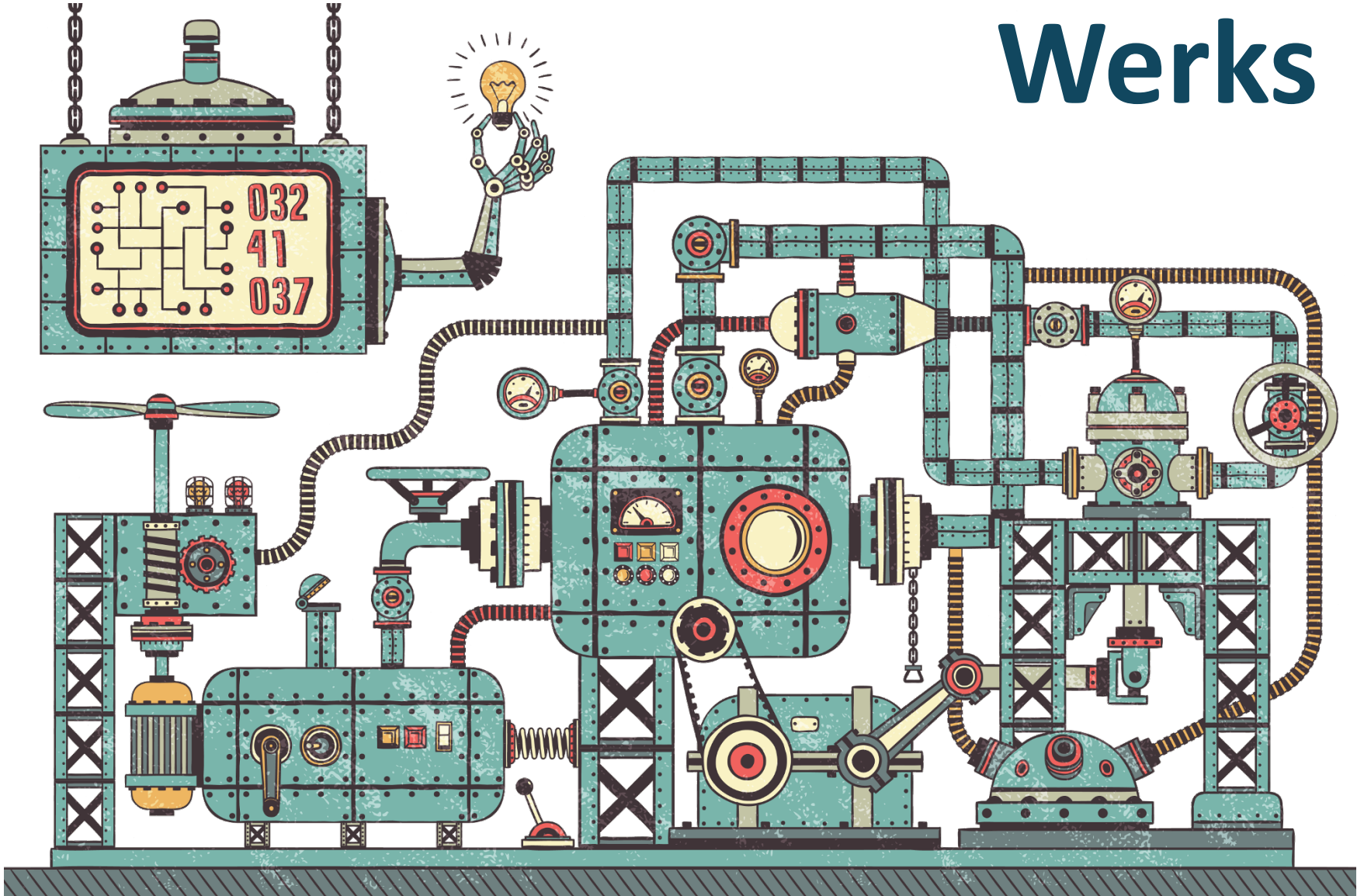
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News in the User Interface

Mathias Kettner



Werks

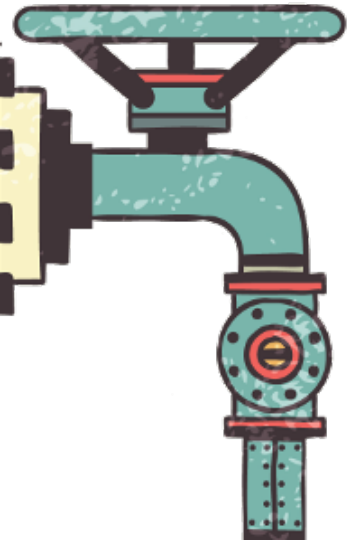


New Feature-Werks

#3572 #3328 #3466 #2713 #3575

#2237 #2684 #2768 #2769 #2880 #2992
#3127 #3129 #3187 #3288 #3310 #3376
#3397 #3436 #3592 #3640 #3713 #3847
#3856 #3864 #3867 #3876 #3959 #4011
#4033 #4070 #4083 #4095 #4106 #4107
#4135 #4169 #4229 #4279 #4452 #4501
#8377





Werk #3572

Session Timeout



Current situation

- Login session is kept up until user closes all browser windows
- Session never times out
- But security policy might require that!



Werk #3572

Added user login session idle timeout

- Timeout after period of **inactivity**
- After that redirection to login screen
- Automatic refresh does **not** count as activity!



Global session timeout

Global settings:

▼ Login session idle timeout

Current setting ☒ Enable a login session idle timeout

days hours mins

Default setting This variable is at factory settings.



Individual session timeout

User profile:

▼ Security


Authentication ☒ Normal user login with password

password:

repeat: (optional)


Enforce change: ☐ Change password at next login or access

☐ Automation secret for machine accounts



☐ disable the login to this account

Idle timeout Set an individual idle timeout▼ 0 days 1 hours 0 mins







Werk #3575

Login Limitation



Werk #3575

User logins can now be limited to a single session at a time

- No simultaneous login from two browsers
- Short inactivity releases the session
- Automatic refresh **does** count as activity here



Global configuration setting

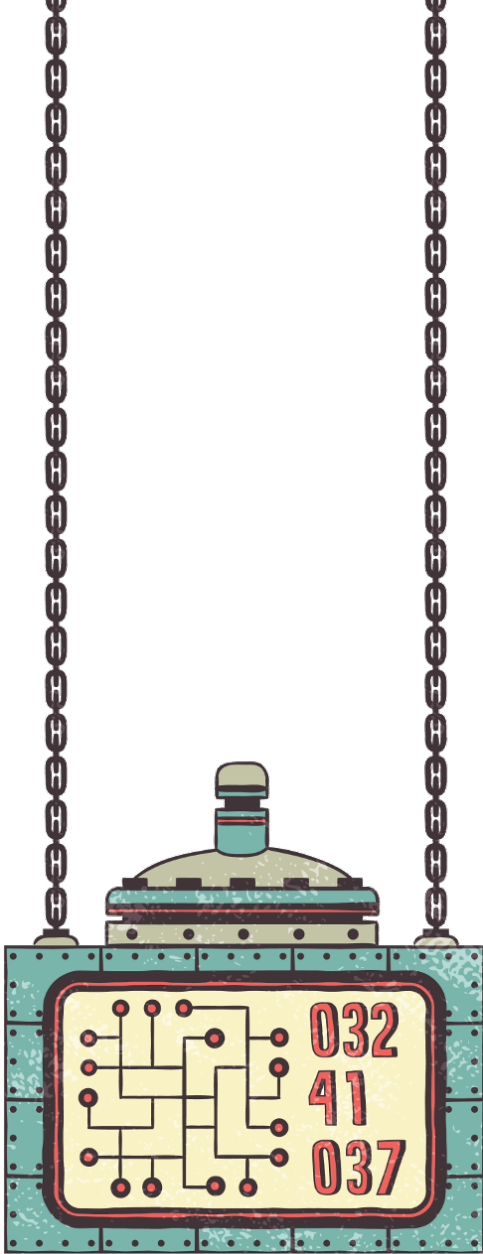
▼ Limit login to single session at a time

Current setting ☒ Users can only login from one client at a time

Session timeout: hours mins

Default setting This variable is at factory settings.





Werk #3466 End of Logwatch Mayhem



Current situation

Pages for viewing + ack'ing log messages need local file access.

Access to remote site via HTTP needed.

Two methods...



Current situation

1. Access by user's browser

- nasty duplicate login needed
- backlinks leave you on remote server

2. Access by server

- nasty proxy rule needed
- manual setup as **root** required
- intern HTTP needed



Both are...



Brave new world: Livestatus

Now logwatch is accessed via Livestatus

- No proxy rule nor any other configuration
- Seamless integration into rest of GUI
- works out of the box for all



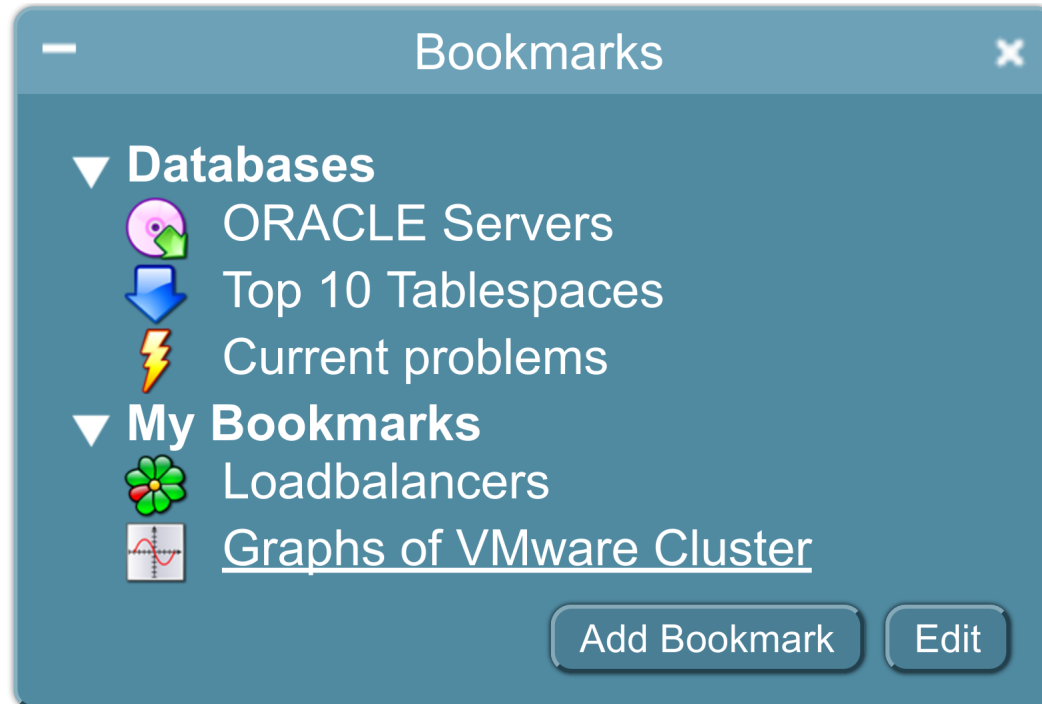




Werk #2713

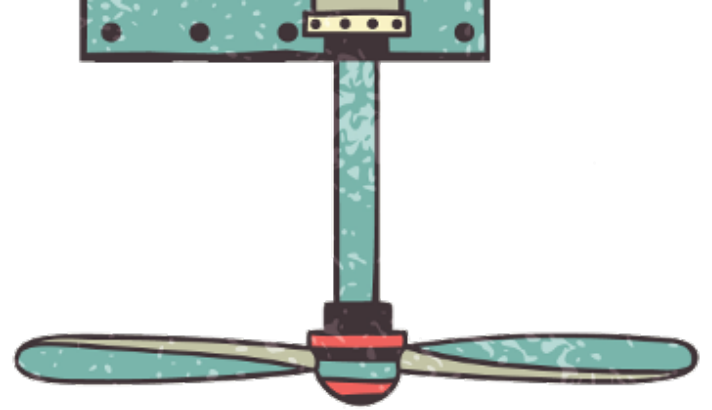
Bookmarks Snapin





Werk #3328

Cloned Views



- Cloned views not public per default anymore
- Admins easily garbled things for users before that



Werk #3864

Stale Services

Check_MK Conference #3 - News in the Event Console

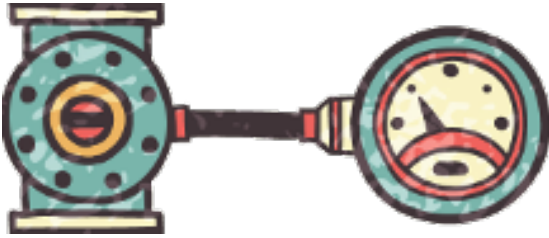


Werk #3572

Tactical Overview shows stale services now:

Tactical Overview			
Hosts	Problems	Unhandled	Stale
15	0	0	0
Services	Problems	Unhandled	Stale
1065	62	62	3
Events	Problems	Unhandled	Stale
0	0	0	





Further Werks (1)

- #4070** Added a painter for the service check period
- #2684** Added icons for downloading agent data / walks of hosts
- #2880** Automatically detect changes in local web/plugins, no Apache restart needed anymore
- #3376** Better handling of host/service visibility of users with admin role
- #4501** Bulk delete possible for bookmark lists, graph collections and custom graphs
- #3867** filter 'Servicegroup (Regex)' can be negated



Further Werks (2)

#3288 Implemented grouping of services in table views

#3856 Improved handling of Check_MK GUI request timeouts

#4452 Multisite Quicksearch: Now able to configure quicksearch filters in the global settings

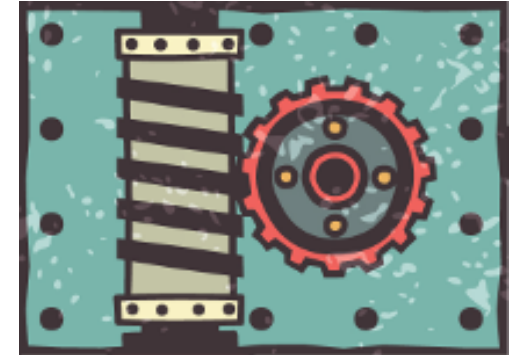
#3310 New dashlet which shows user notifications

#3640 New filter option for status details: can now be negated

#3876 New filter option: negation for several service and host groups



Further Werks (3)



#2992 New filter: "Hostname or Alias"

#4095 New filter: host auxiliary tags

#4106 New filter: host/service-service-level

#3713 New filter: hosts with certain service problems

#3127 New icon on services that are outside their check period

#3129 New view and datasource containing the results of the last periodic discovery check



Further Werks (4)

#4229 New Web GUI logging configuration

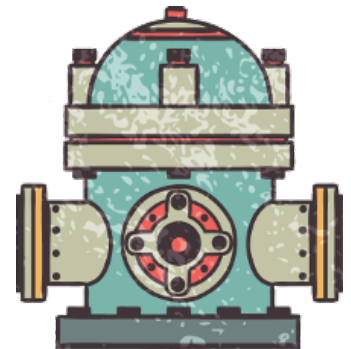
#3187 Notification view: new filter for log command via regex

#3864 Now tactical overview is able to show the number of stale hosts and services

#4107 Now you are able to search for check plugins

#3847 Painter options can now be reset to defaults

#4279 Performance snapins: Added site selection field to all performance snapins



Further Werks (5)



#4011 Quicksearch: Introduced new filters tg, ad and al

#4033 Quicksearch: Now cycles through the filters
h:/ad:/al:/s: when no specific filters are set

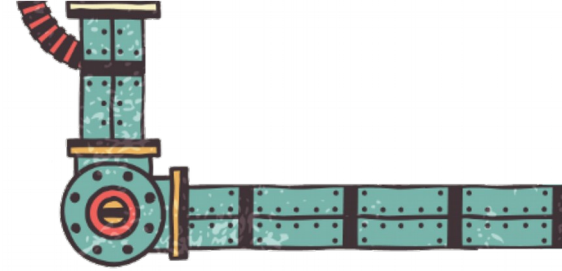
#3397 Show IP addresses of a host when hovering over
its name

#2768 Showing number of unacknowledged incompatible
changes in sidebar header

#8377 Times and comments of downtimes can now be edited



Further Werks (6)

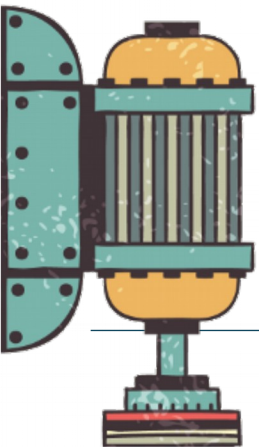


- #3959** Two new filters for the comment view: author and comment text field
- #2237** Unique name for columns of Host Groups and Service Groups
- #2769** Verifying that the Check_MK GUI is not used with Apache threaded MPM (e.g. worker)
- #4169** View action: Default values of sticky, notification and persistent options can now be configured via global settings



Further Werks (7)

- #4135** View CSV export: Group cells are added in front of the regular cells for each row
- #3436** Views/Dashobards: Can now be published to members of contact groups
- #3592** Views: Added sorter for host names (without site)
- #4083** Web API: Always output full traceback in case of non Check_MK unhandled exceptions



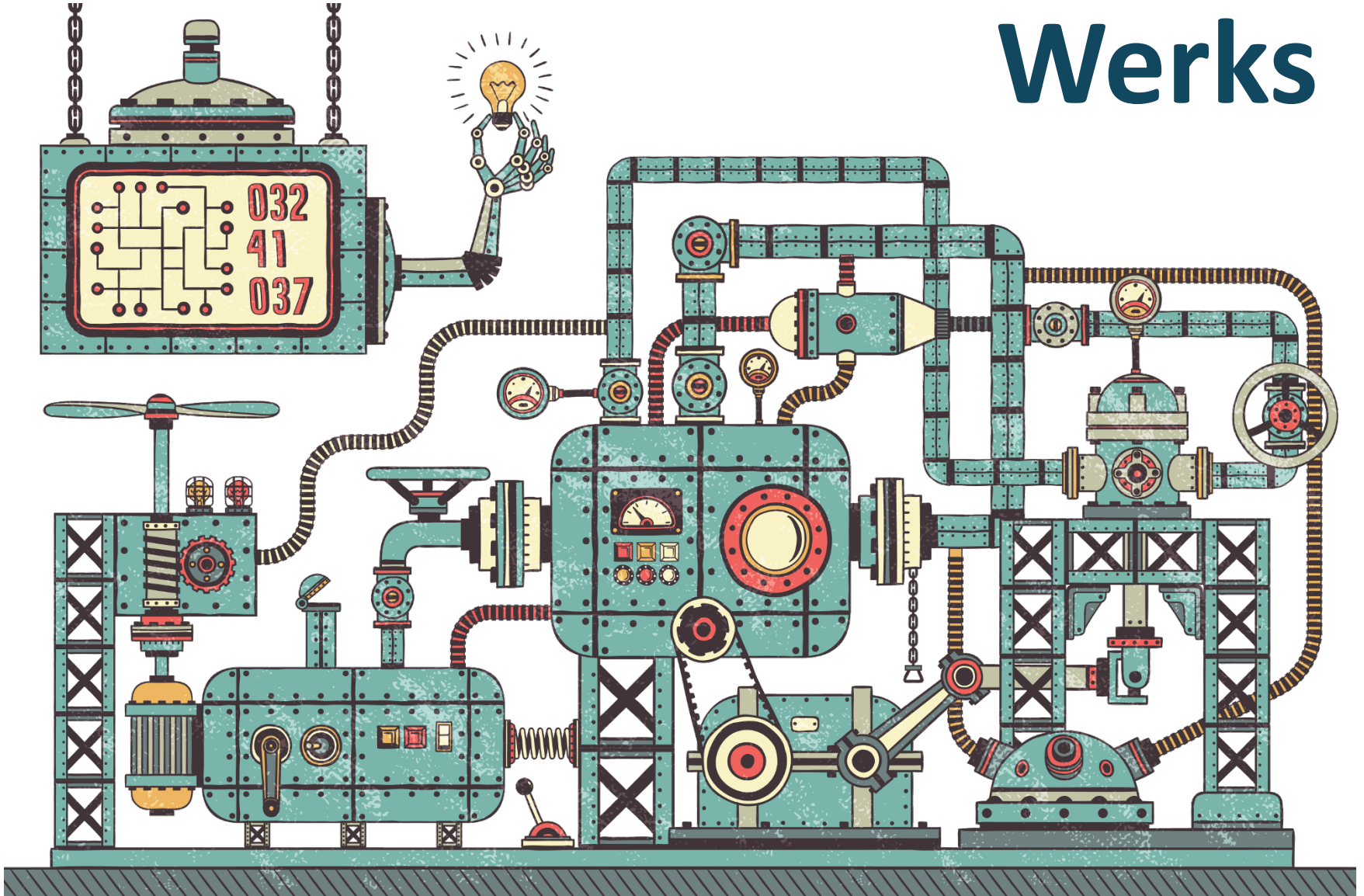
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News in the Reporting Module

Marcel Schulte



Werks

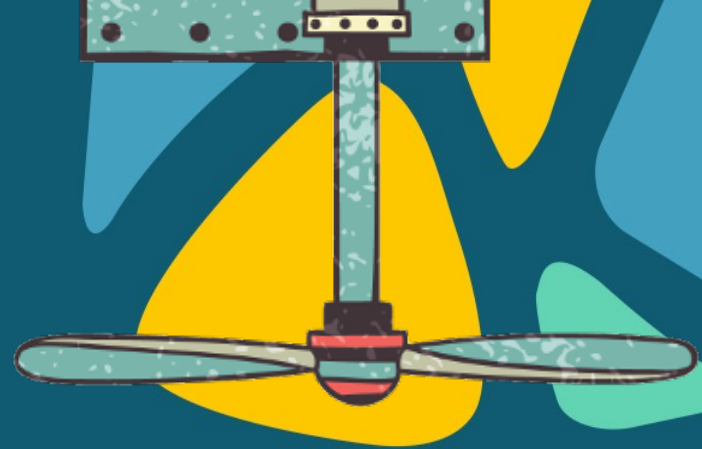


New Feature-Werks

#3394 #8393 #8400 #8697

#3102 #3267 #4490 #8391 #8392 #8481
#8553 #8592 #8595 #8654





Werks #3394 #8654 Annotations



Werk #3394

Annotations can now be used to reclassify the scheduled downtime status




Werk #3394

Annotations can now be used to reclassify the scheduled downtime status

▼ Properties

Site

stabil 

Hostname

klappautermann

Service

☐ Service

Start-Time

2017

4

17

12

1

31

End-Time

2017

4


17

14

46

40

Scheduled downtime

 Reclassify downtime of this period

regard as scheduled downtime ▼

Annotation

unfortunately I forgot to set the downtime ;)



Werk #8654

Availability annotations are also rendered in PDF reporting now



Werk #8654

Availability annotations are also rendered in PDF reporting now

Status of Host klappautermann




Report created 2017-04-23 13:34:13 by omdadmin (omdadmin)

Timerange: This week - from 2017-04-17 00:00:00 until 2017-04-23 13:34:13

Not contained in any group

Host	UP	DOWN	UNREACH	Flapping	Downtime	N/A
klappautermann	95%	0%	0%	0%	0%	5%
Summary	95%	0%	0%	0%	0%	5%

Annotations

From	Until	Annotation	Author	Entry
2017-04-17 12:01:31	2017-04-17 14:46:40	 unfortunately I forgot to set the downtime ;)	omdadmin	2017-04-23 13:33:08





Werks #3102 #3267 #8592

Availability Options



Werk #3102

added option to availability to include host alias in reports



Werk #3102

added option to availability to include host alias in reports

Labelling Options

☐

Do not display column headers

☐

Do not display the host name

☒

Display the host alias☐☐☐

Werk #3267

New availability option for reclassifying host state "unreachable"



Werk #3267

New availability option for reclassifying host state "unreachable"

Host Status Grouping

Treat Unreachable as:

UNREACH▼

UP

DOWN

UNREACH



Werk #8592

availability: now limit of fetched logfile rows is configurable



Werk #8592

availability: now limit of fetched logfile rows is configurable

Limit processed data

process at most status entries





Werks #8481 #8553 #8595 Host/Service Info



Werks #8481, #8595

New option for adding host name, alias or service description to graph title in reports



Werks #8481, #8595

New option for adding host name, alias or service description to graph title in reports

▼ Properties

Number of the graph template ☐

In case of an error ☐ Render an error message into the doc

Graph layout ☐ Font size

☒ Title

☒ Show graph title

☒ Title format

Add more information▼

- ☒ Add host name
- ☒ Add host alias
- ☒ Add service description



Werks #8392, #8393, #8697 Report Elements

Check_MK Conference #3 - News in the Reporting Module



Werks #8393, #8697

Allow to embed dynamic text that is fetched via an URL into a report



Werks #8393, #8697

Allow to embed dynamic text that is fetched via an URL into a report

New report element "Multiple graphs"



Werks #8393, #8697

Allow to embed dynamic text that is fetched via an URL into a report

New report element "Multiple graphs"

▼ Step 1

Select the type of content element

- Paragraph of text fetched via HTTP(s)▼
- A Multisite view
- Availability table
- Combined graph
- Custom Graph
- Embedded image
- Graph collection
- Heading
- Metrics graph of a single service
- Multiple graphs
- Paragraph of text
- Paragraph of text fetched via HTTP(s)
- Table of available text macros
- Vertical space



Werk #8392

Allow to add images to the normal element flow of a report



Werk #8392

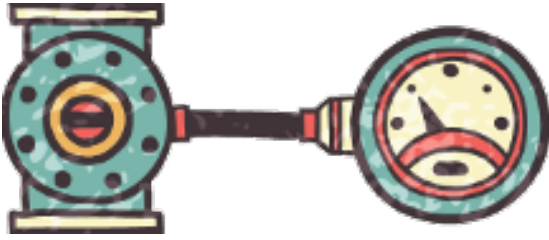
Allow to add images to the normal element flow of a report

▼ Step 1

Select the type of fixed page element

- One line of text ▼
- A frame around the page
- Embedded image**
- Horizontal rule
- One line of text





Further Werks

- #8400** Fixed PDF export for service detail views: added missing graphs
- #4490** Date & time option is now available in time range options
- #8391** Better column width layout for availability reports with more groups



CHECK_MK
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Thanks for listening!

YOUR FEEDBACK IS WELCOME