2.0

Long, long time ago...

- 1.8 was released on 2009.12.07
- Work on the first new feature for 2.0 started at 2009.12.29
- It was "skip" mode for logfiles

How was Zabbix server called initially ?

zabbix_suckerd

StartSuckers=5

zabbix_suckerd #4 started

[Sucker. SNMP:OFF]

It's all in the name

- 1.10 or 2.0 ?
- The time had come

Today

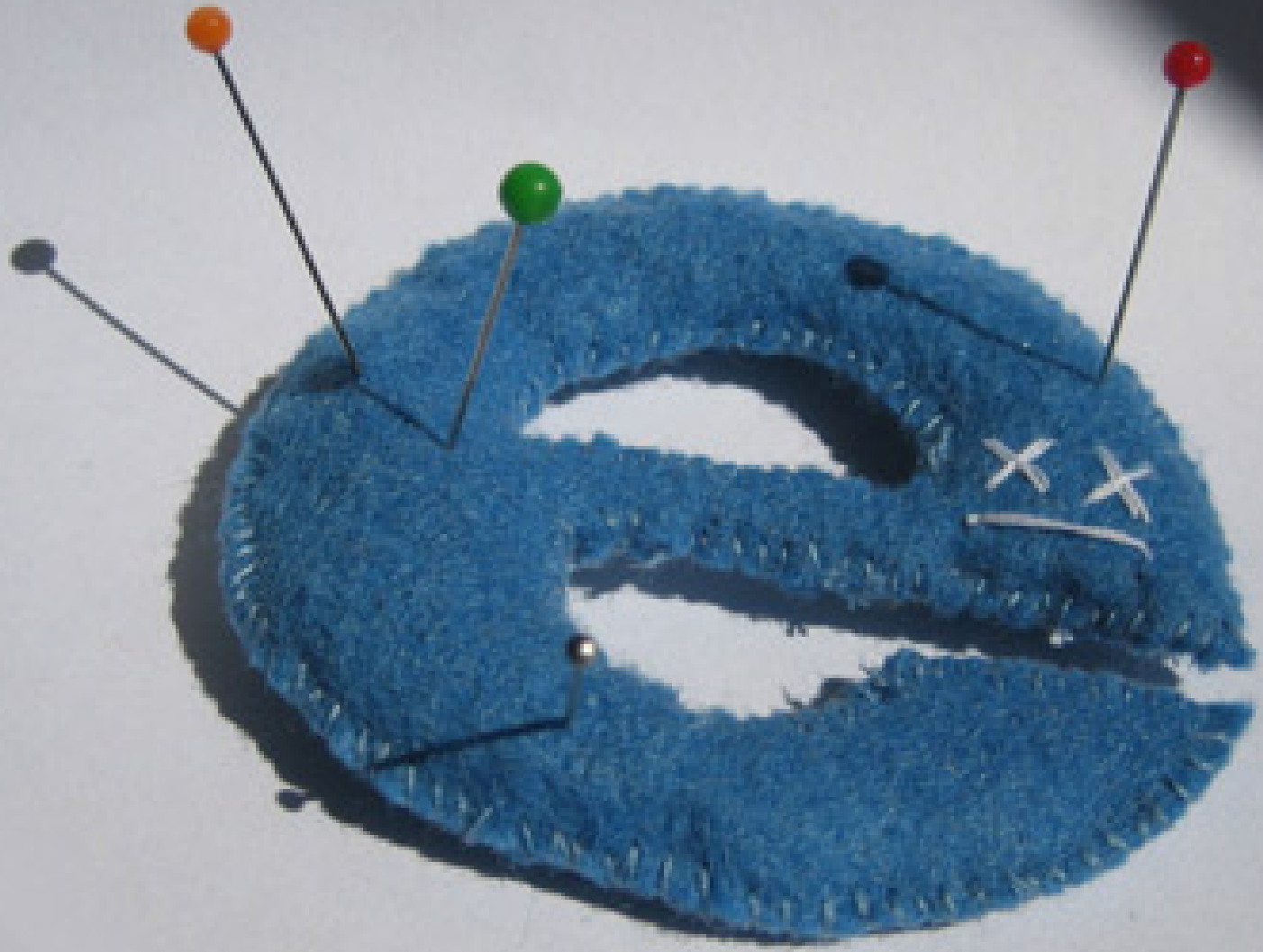
- Frontend
- Performance
- Other notable new features

Who is using trunk ?

…in production ?

Frontend

- Changes all around
- Network map improvements



© Teresa Watts

ZABBIX

WARNING! You are using an outdated browser.

Zabbix frontend is built on advanced, modern technologies and does not support old browsers. It is highly recommended that you choose and install a modern browser. It is free of charge and only takes a couple of minutes.

Google Chrome

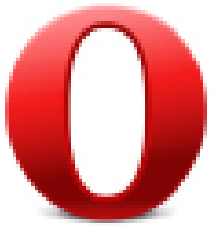
Download page

Mozilla Firefox

Download page

Internet Explorer

Download page



Opera browser

Download page

Apple Safari

Download page

Why is it recommended to upgrade the web browser?

New browsers usually come with support for new technologies, increasing web page speed, better privacy settings and so on. They also resolve security and functional issues.

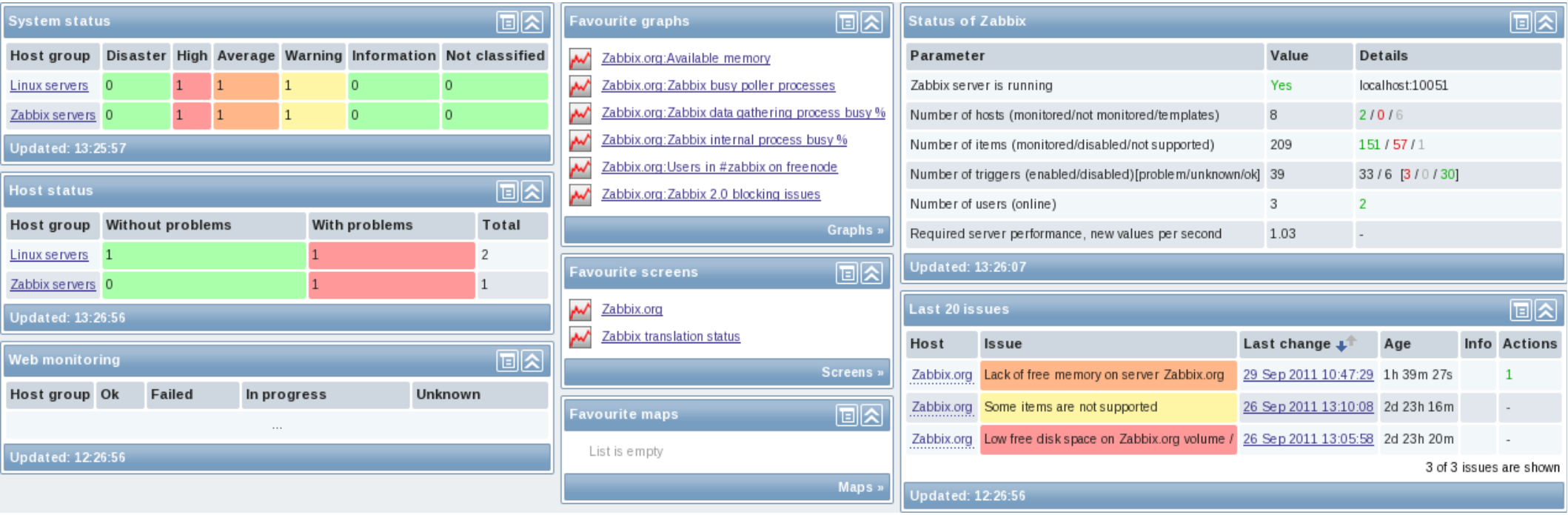
Continue despite this warning »

Zabbix 1.9.7 Copyright 2001-2011 by Zabbix SIA

Help | Support
ZABBIX
Username
Password
Remember me for 30 days
Sign in
Login as Guest
Zabbix 1.9.7 Copyright 2001-2011 by Zabbix SIA

What was the default password for admin user before Zabbix 1.6 ?

Customisable dashboard



System status

Host group	Disaster	High	Average	Warning	Information	Not classified
Linux servers	0	1	1	1	0	0
Zabbix servers	0	1	1	1	0	0

Updated: 13:25:57

Host status

Host group	Without problems	With problems	Total
Linux servers	1	1	2
Zabbix servers	0	1	1

Updated: 13:26:56

Web monitoring

Host group	Ok	Failed	In progress	Unknown
...				

Updated: 12:26:56

Favourite graphs

- Zabbix.org:Available memory
- Zabbix.org:Zabbix busy poller processes
- Zabbix.org:Zabbix data gathering process busy %
- Zabbix.org:Zabbix internal process busy %
- Zabbix.org:Users in #zabbix on freenode
- Zabbix.org:Zabbix 2.0 blocking issues

Graphs »

Favourite screens

- Zabbix.org
- Zabbix translation status

Screens »

Favourite maps

List is empty

Maps »

Status of Zabbix

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (monitored/not monitored/templates)	8	2 / 0 / 6
Number of items (monitored/disabled/not supported)	209	151 / 57 / 1
Number of triggers (enabled/disabled)[problem/unknown/ok]	39	33 / 6 [3 / 0 / 30]
Number of users (online)	3	2
Required server performance, new values per second	1.03	-

Updated: 13:26:07

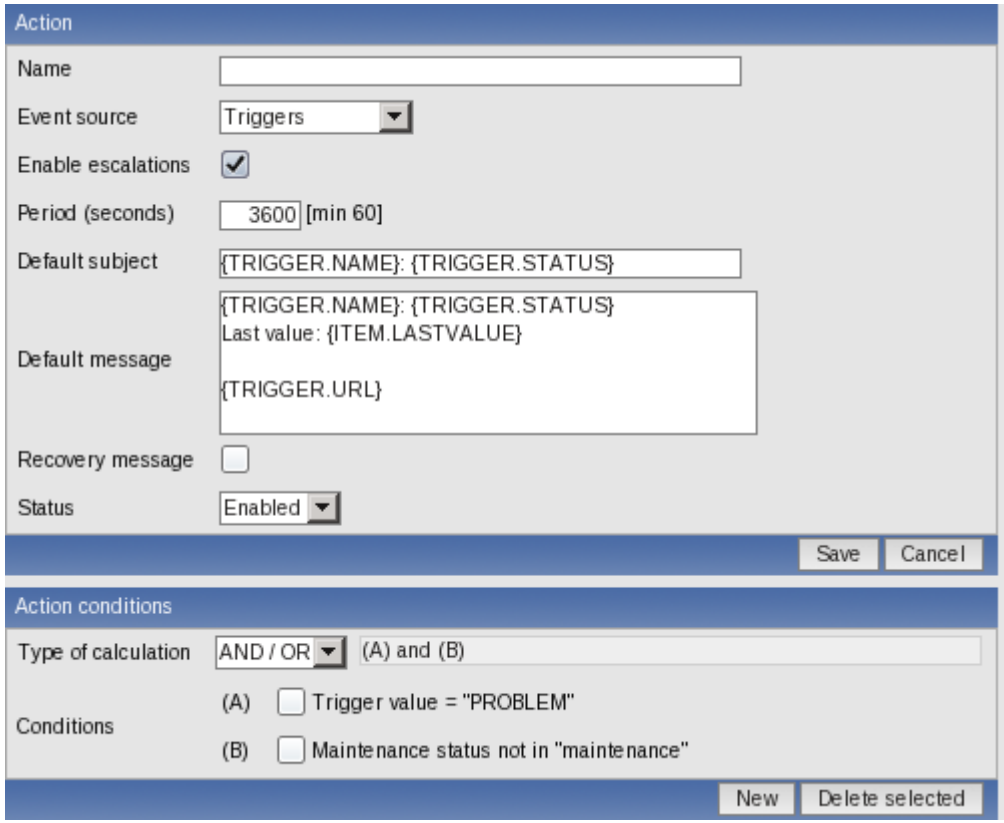
Last 20 issues

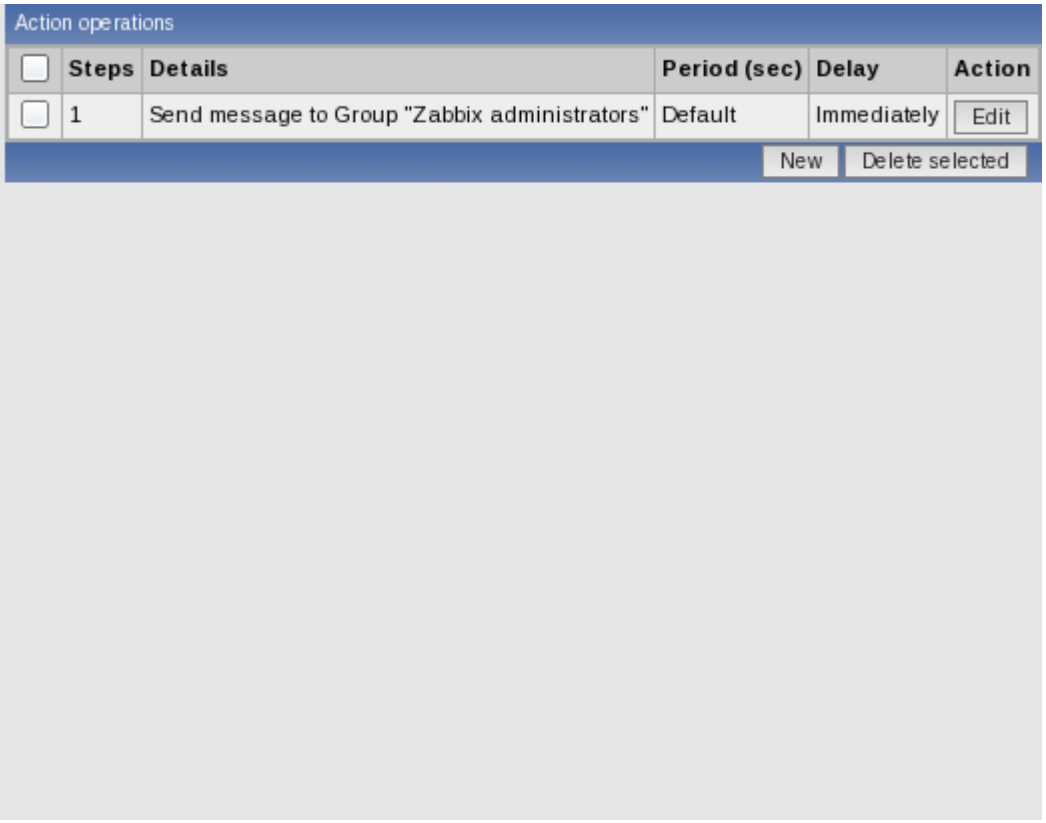
Host	Issue	Last change	Age	Info	Actions
Zabbix.org	Lack of free memory on server Zabbix.org	29 Sep 2011 10:47:29	1h 39m 27s		1
Zabbix.org	Some items are not supported	26 Sep 2011 13:10:08	2d 23h 16m		-
Zabbix.org	Low free disk space on Zabbix.org volume /	26 Sep 2011 13:05:58	2d 23h 20m		-

3 of 3 issues are shown

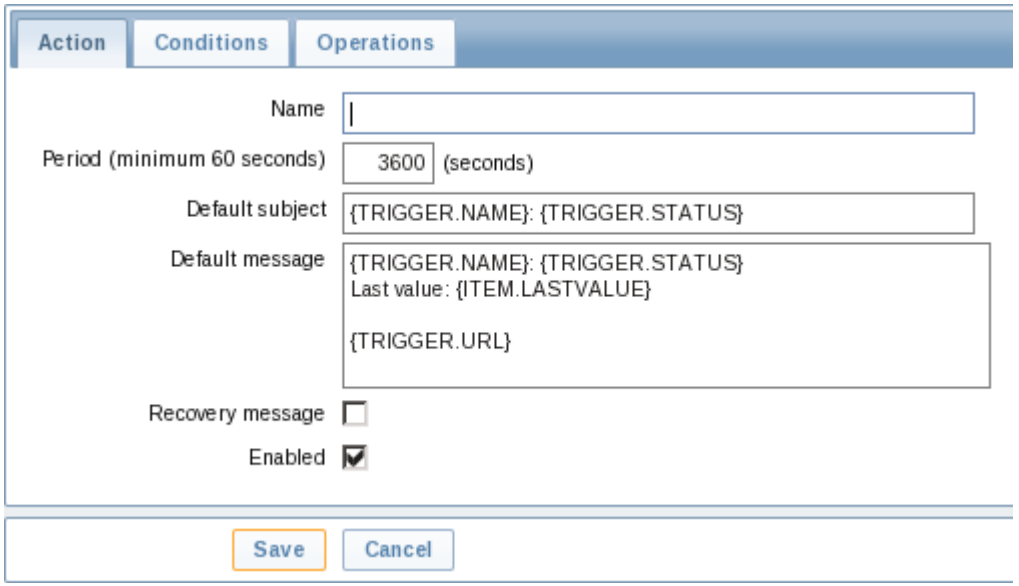
Updated: 12:26:56

Reworked frontend

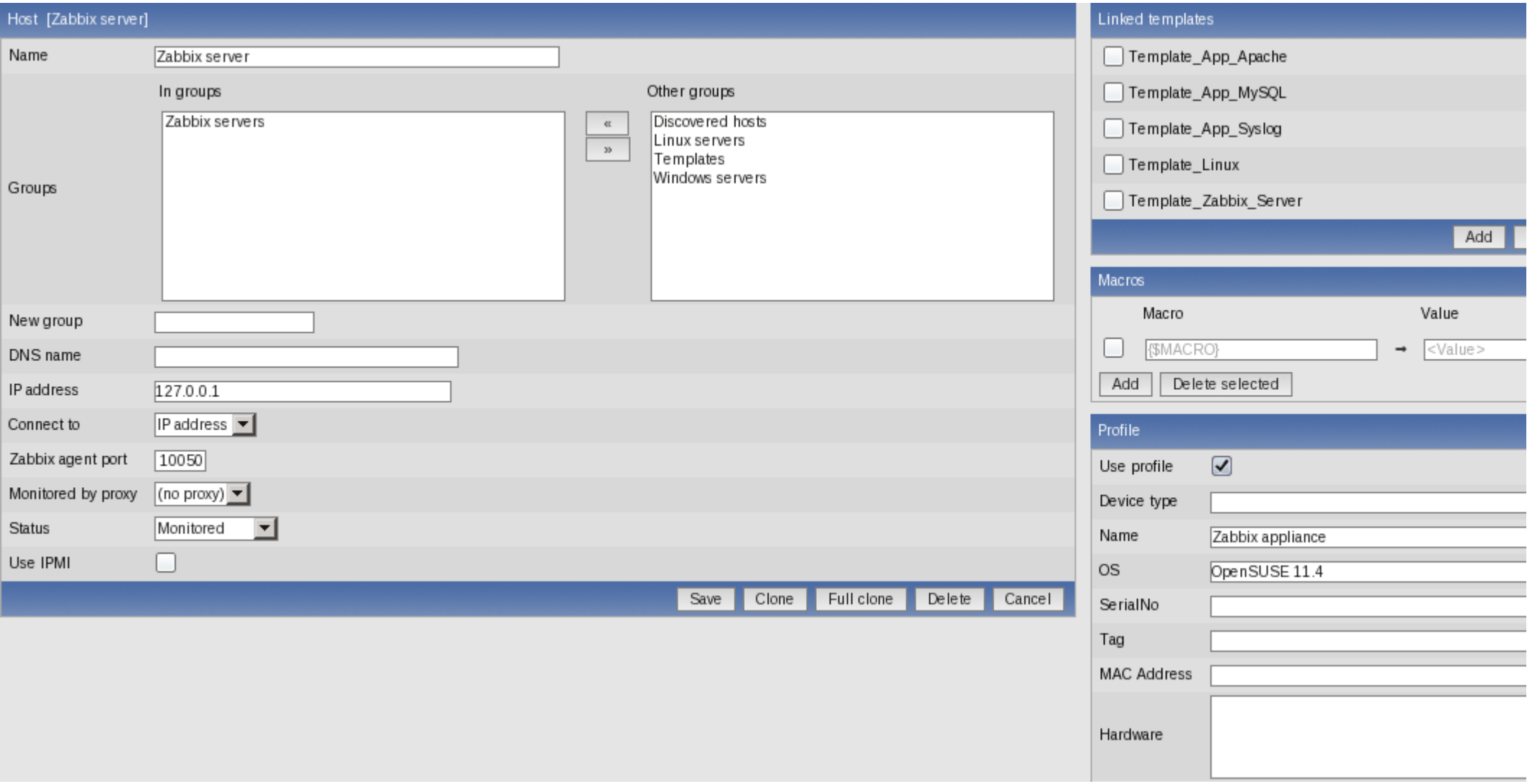




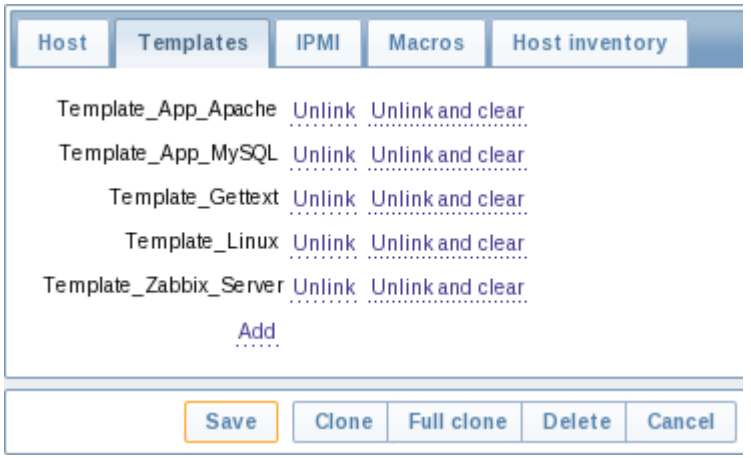
Eliminates horizontal scrolling



Host properties in 1.8

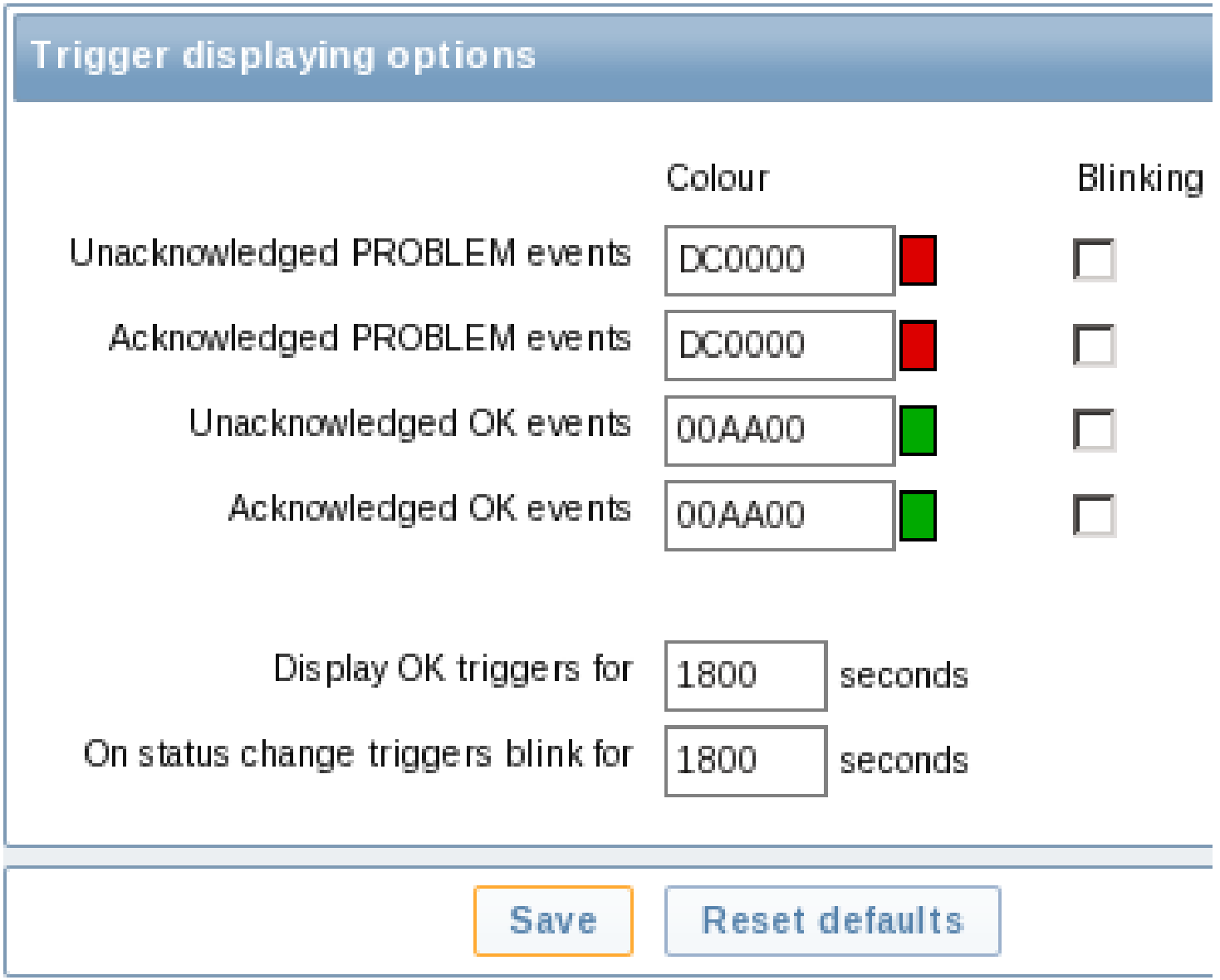


Host properties in 2.0

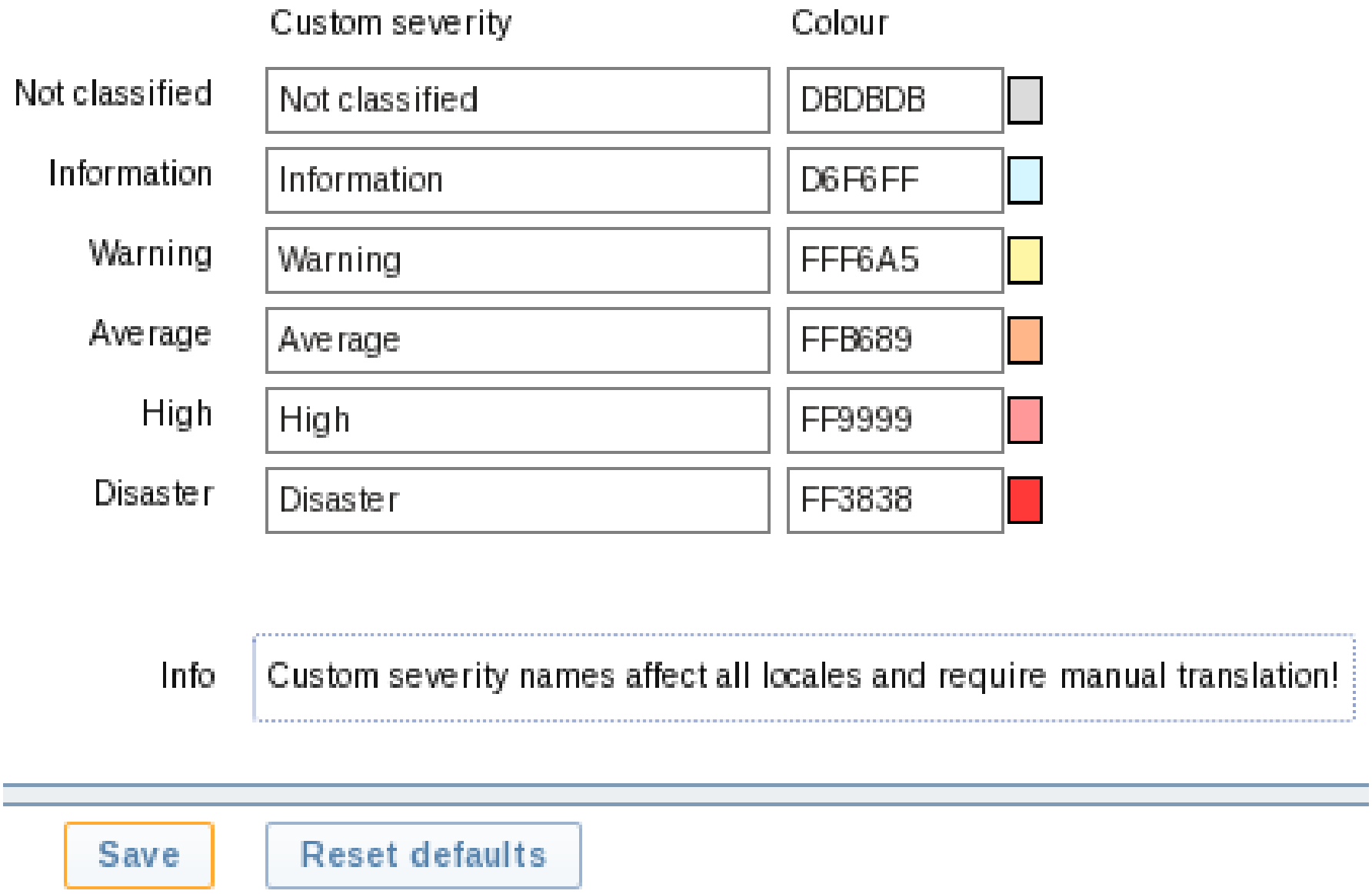


Navigation bar in host properties

Problem displaying customisation 1

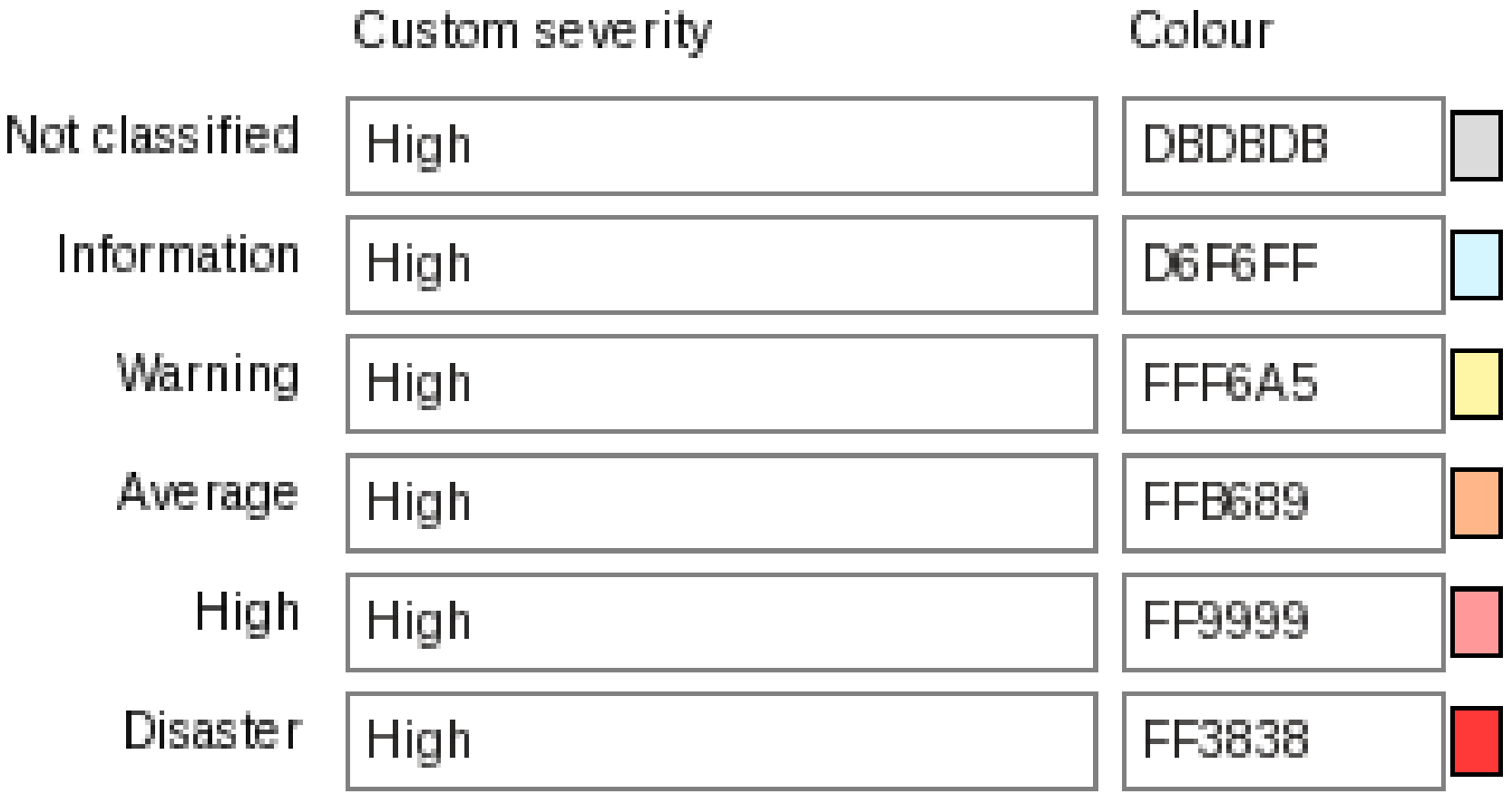


Problem displaying customisation 2

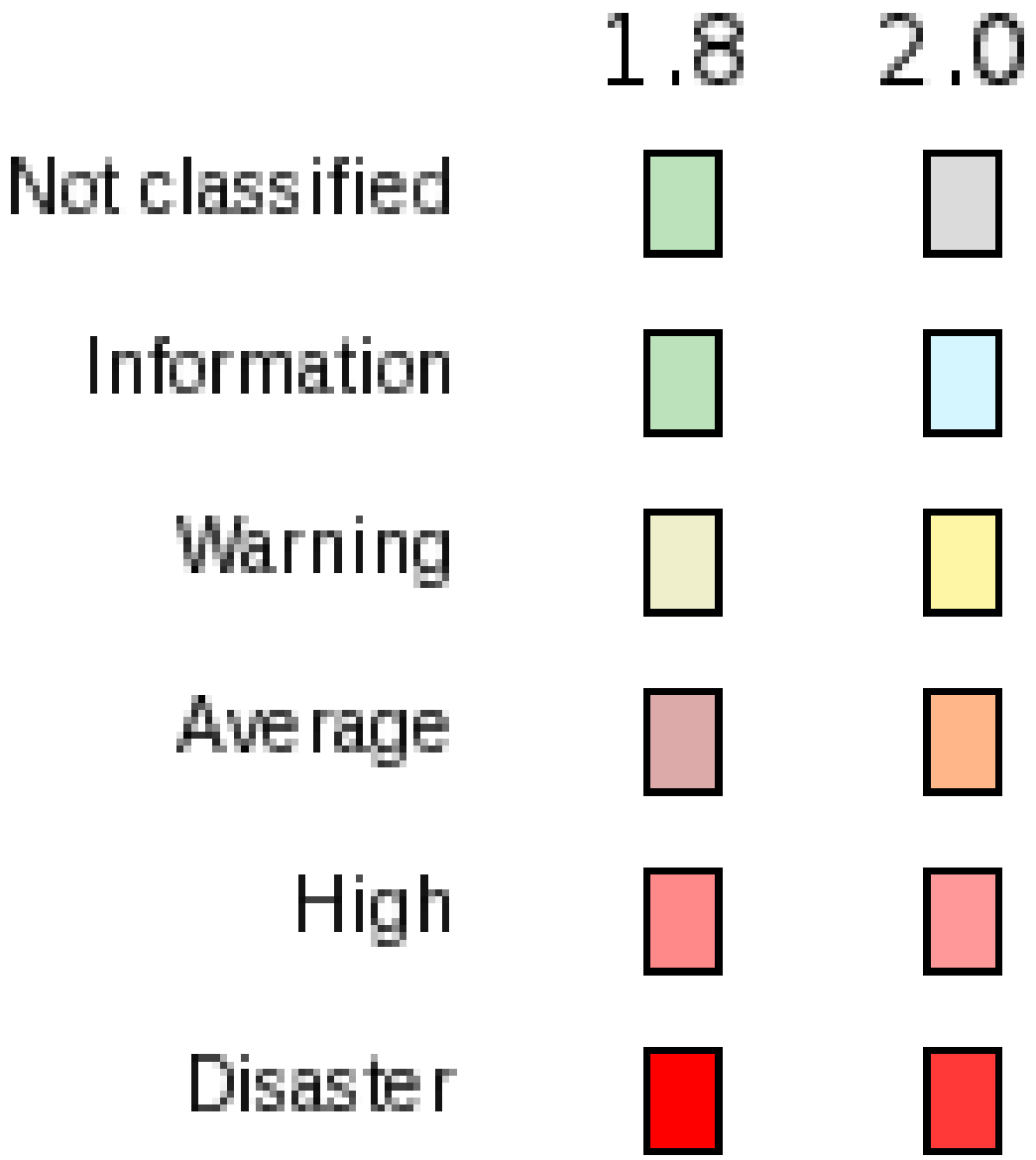


Dutch version

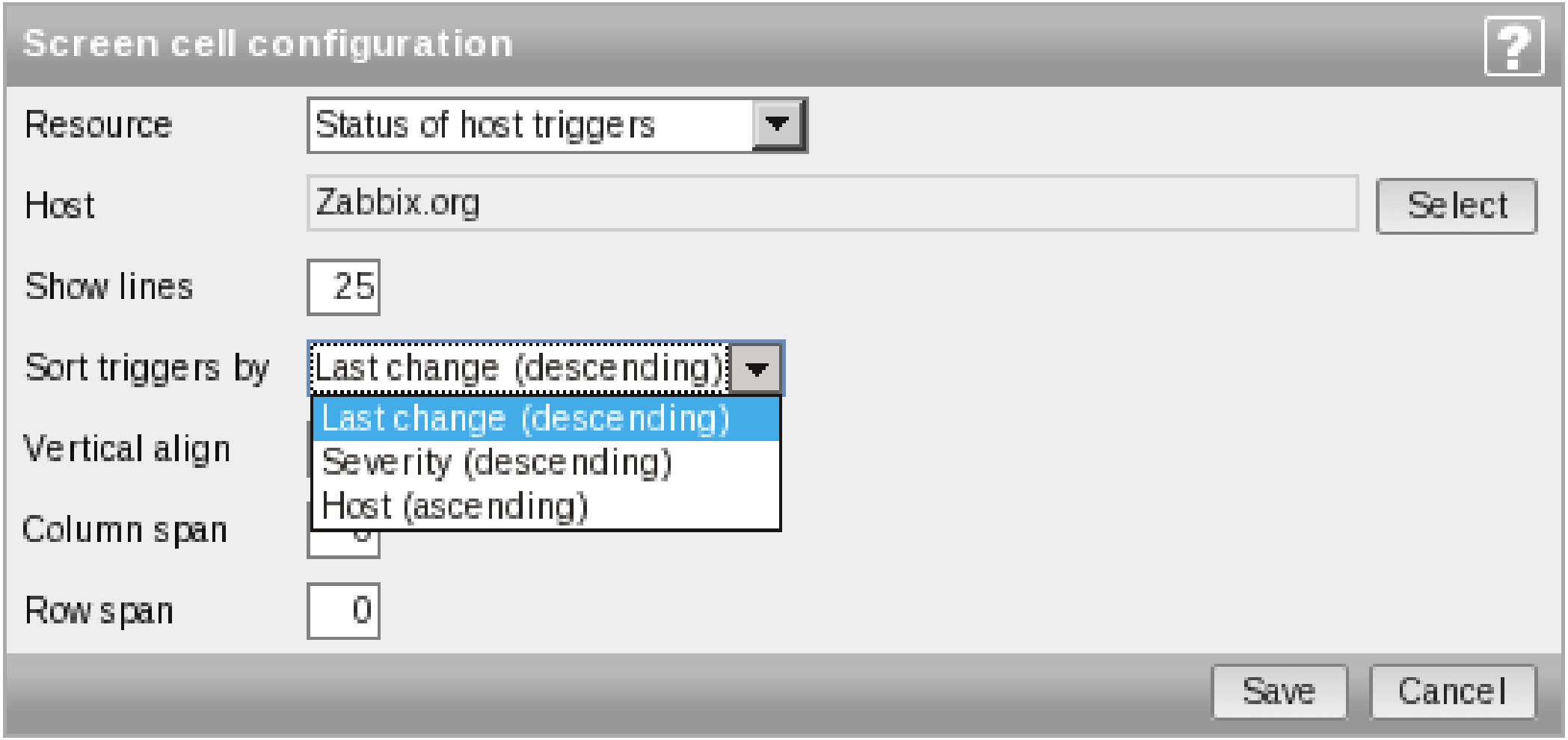
- We're just jealous...



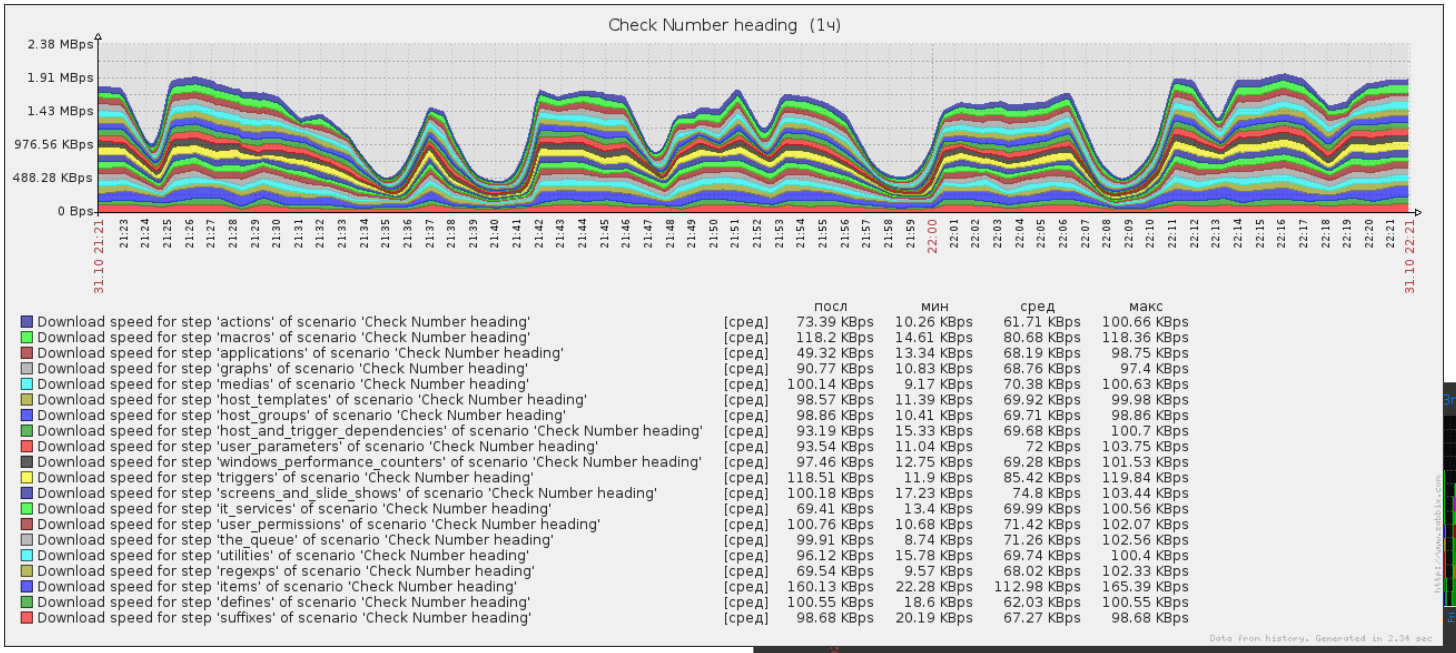
New colours


1.8
2.0
Not classified
Information
Warning
Average
High
Disaster

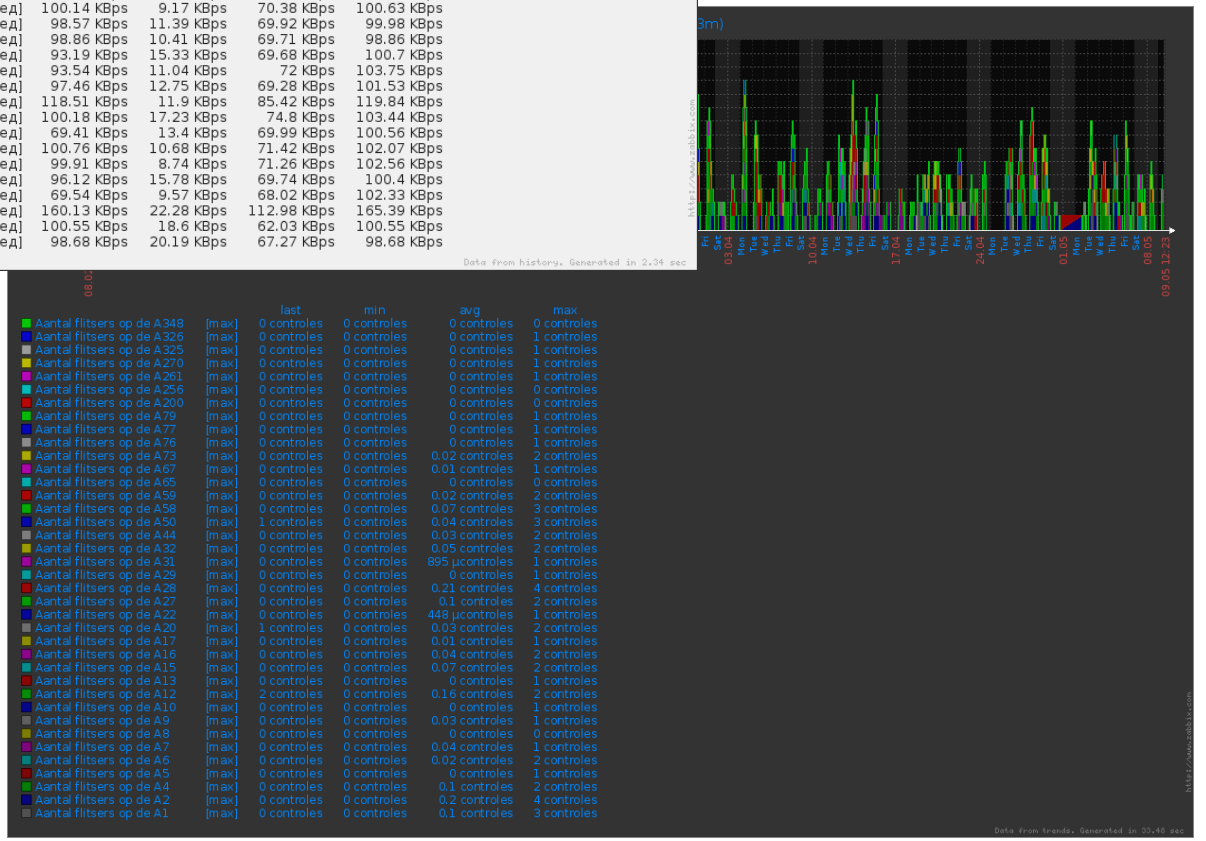
Sort triggers in screens



No legend



		посл	мин	сред	макс
Download speed for step 'actions' of scenario 'Check Number heading'	[сред]	73.39 KBps	10.26 KBps	61.71 KBps	100.66 KBps
Download speed for step 'macros' of scenario 'Check Number heading'	[сред]	118.2 KBps	14.61 KBps	80.68 KBps	118.36 KBps
Download speed for step 'applications' of scenario 'Check Number heading'	[сред]	49.32 KBps	13.34 KBps	68.19 KBps	98.75 KBps
Download speed for step 'graphs' of scenario 'Check Number heading'	[сред]	90.77 KBps	10.83 KBps	68.76 KBps	97.4 KBps
Download speed for step 'medias' of scenario 'Check Number heading'	[сред]	100.14 KBps	9.17 KBps	70.38 KBps	100.63 KBps
Download speed for step 'host_templates' of scenario 'Check Number heading'	[сред]	98.57 KBps	11.39 KBps	69.92 KBps	99.98 KBps
Download speed for step 'host_groups' of scenario 'Check Number heading'	[сред]	98.86 KBps	10.41 KBps	69.71 KBps	98.86 KBps
Download speed for step 'host_and_trigger_dependencies' of scenario 'Check Number heading'	[сред]	93.19 KBps	15.33 KBps	69.68 KBps	100.7 KBps
Download speed for step 'user_parameters' of scenario 'Check Number heading'	[сред]	93.54 KBps	11.04 KBps	72 KBps	103.75 KBps
Download speed for step 'windows_performance_counters' of scenario 'Check Number heading'	[сред]	97.46 KBps	12.75 KBps	69.28 KBps	101.53 KBps
Download speed for step 'triggers' of scenario 'Check Number heading'	[сред]	118.51 KBps	11.9 KBps	85.42 KBps	119.84 KBps
Download speed for step 'screens_and_slide_shows' of scenario 'Check Number heading'	[сред]	100.18 KBps	17.23 KBps	74.8 KBps	103.44 KBps
Download speed for step 'it_services' of scenario 'Check Number heading'	[сред]	69.41 KBps	13.4 KBps	69.99 KBps	100.56 KBps
Download speed for step 'user_permissions' of scenario 'Check Number heading'	[сред]	100.76 KBps	10.68 KBps	71.42 KBps	102.07 KBps
Download speed for step 'the_queue' of scenario 'Check Number heading'	[сред]	99.91 KBps	8.74 KBps	71.26 KBps	102.56 KBps
Download speed for step 'utilities' of scenario 'Check Number heading'	[сред]	96.12 KBps	15.78 KBps	69.74 KBps	100.4 KBps
Download speed for step 'regexps' of scenario 'Check Number heading'	[сред]	69.54 KBps	9.57 KBps	68.02 KBps	102.33 KBps
Download speed for step 'items' of scenario 'Check Number heading'	[сред]	160.13 KBps	22.28 KBps	112.98 KBps	165.39 KBps
Download speed for step 'defines' of scenario 'Check Number heading'	[сред]	100.55 KBps	18.6 KBps	62.03 KBps	100.55 KBps
Download speed for step 'suffixes' of scenario 'Check Number heading'	[сред]	98.68 KBps	20.19 KBps	67.27 KBps	98.68 KBps



		last	min	avg	max
Aantal flitsers op de A348	[max]	0 controles	0 controles	0 controles	0 controles
Aantal flitsers op de A326	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A325	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A270	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A261	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A256	[max]	0 controles	0 controles	0 controles	0 controles
Aantal flitsers op de A200	[max]	0 controles	0 controles	0 controles	0 controles
Aantal flitsers op de A79	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A77	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A76	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A73	[max]	0 controles	0 controles	0.02 controles	2 controles
Aantal flitsers op de A67	[max]	0 controles	0 controles	0.01 controles	1 controles
Aantal flitsers op de A65	[max]	0 controles	0 controles	0 controles	0 controles
Aantal flitsers op de A59	[max]	0 controles	0 controles	0.02 controles	2 controles
Aantal flitsers op de A58	[max]	0 controles	0 controles	0.07 controles	3 controles
Aantal flitsers op de A50	[max]	1 controles	0 controles	0.04 controles	3 controles
Aantal flitsers op de A44	[max]	0 controles	0 controles	0.03 controles	2 controles
Aantal flitsers op de A32	[max]	0 controles	0 controles	0.05 controles	2 controles
Aantal flitsers op de A31	[max]	0 controles	0 controles	895 µcontroles	1 controles
Aantal flitsers op de A29	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A28	[max]	0 controles	0 controles	0.21 controles	4 controles
Aantal flitsers op de A27	[max]	0 controles	0 controles	0.1 controles	2 controles
Aantal flitsers op de A22	[max]	0 controles	0 controles	448 µcontroles	1 controles
Aantal flitsers op de A20	[max]	1 controles	0 controles	0.03 controles	2 controles
Aantal flitsers op de A17	[max]	0 controles	0 controles	0.01 controles	1 controles
Aantal flitsers op de A16	[max]	0 controles	0 controles	0.04 controles	2 controles
Aantal flitsers op de A15	[max]	0 controles	0 controles	0.07 controles	2 controles
Aantal flitsers op de A13	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A12	[max]	2 controles	0 controles	0.16 controles	2 controles
Aantal flitsers op de A10	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A9	[max]	0 controles	0 controles	0.03 controles	1 controles
Aantal flitsers op de A8	[max]	0 controles	0 controles	0 controles	0 controles
Aantal flitsers op de A7	[max]	0 controles	0 controles	0.04 controles	1 controles
Aantal flitsers op de A6	[max]	0 controles	0 controles	0.02 controles	2 controles
Aantal flitsers op de A5	[max]	0 controles	0 controles	0 controles	1 controles
Aantal flitsers op de A4	[max]	0 controles	0 controles	0.1 controles	2 controles
Aantal flitsers op de A2	[max]	0 controles	0 controles	0.2 controles	4 controles
Aantal flitsers op de A1	[max]	0 controles	0 controles	0.1 controles	3 controles

Templated screens

- Add screens to a template
- View them on hosts

Is this media type actually used ?

	Description	Type	Used in actions
☐	Email	Email	a, action_no_user, action_no_user, some action, Test Action
☐	Jabber	Jabber	a
☐	SMS	SMS	-
☐	Test Script	Script	SNMP Action
☐	ccc	Email	action_no_user, integrity

Escalations = ON

- Escalations can not be disabled
- Trigger value = PROBLEM
- “Recovery message” becomes more intuitive

Visible host name

- Supports UTF8

New and updated translations

- New translations
  - Turkish (php bug !)
- Updated translations
  - Dutch
  - French
  - German
  - Japanese
  - Latvian
  - Polish
  - Ukrainian
  - Russian

API access changes

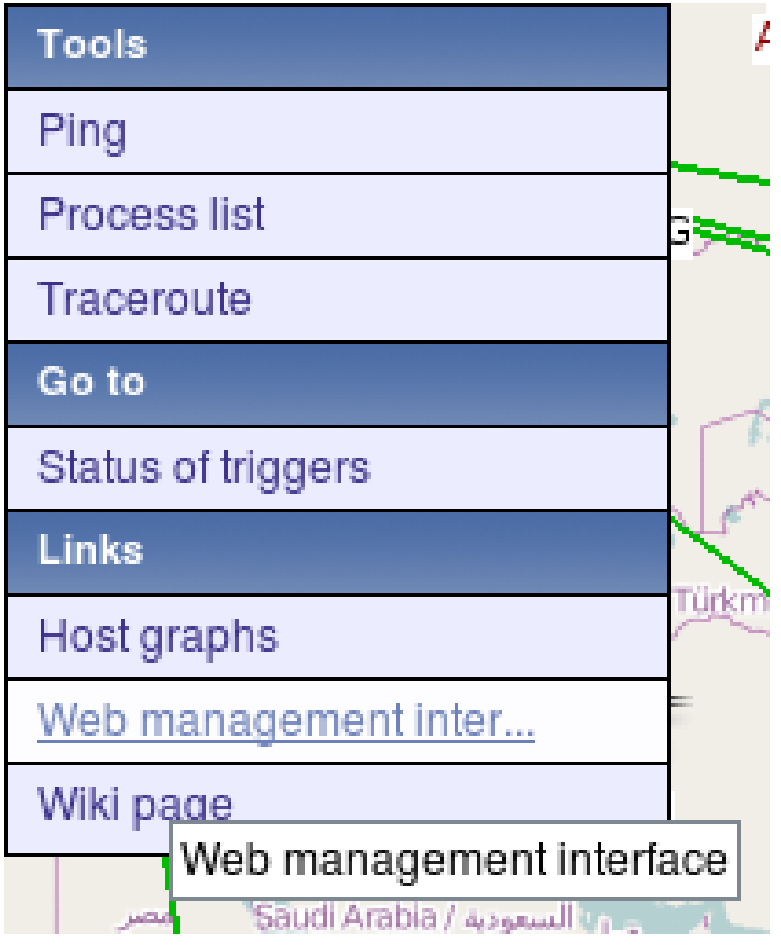
- Everybody has access to the API

Network map improvements

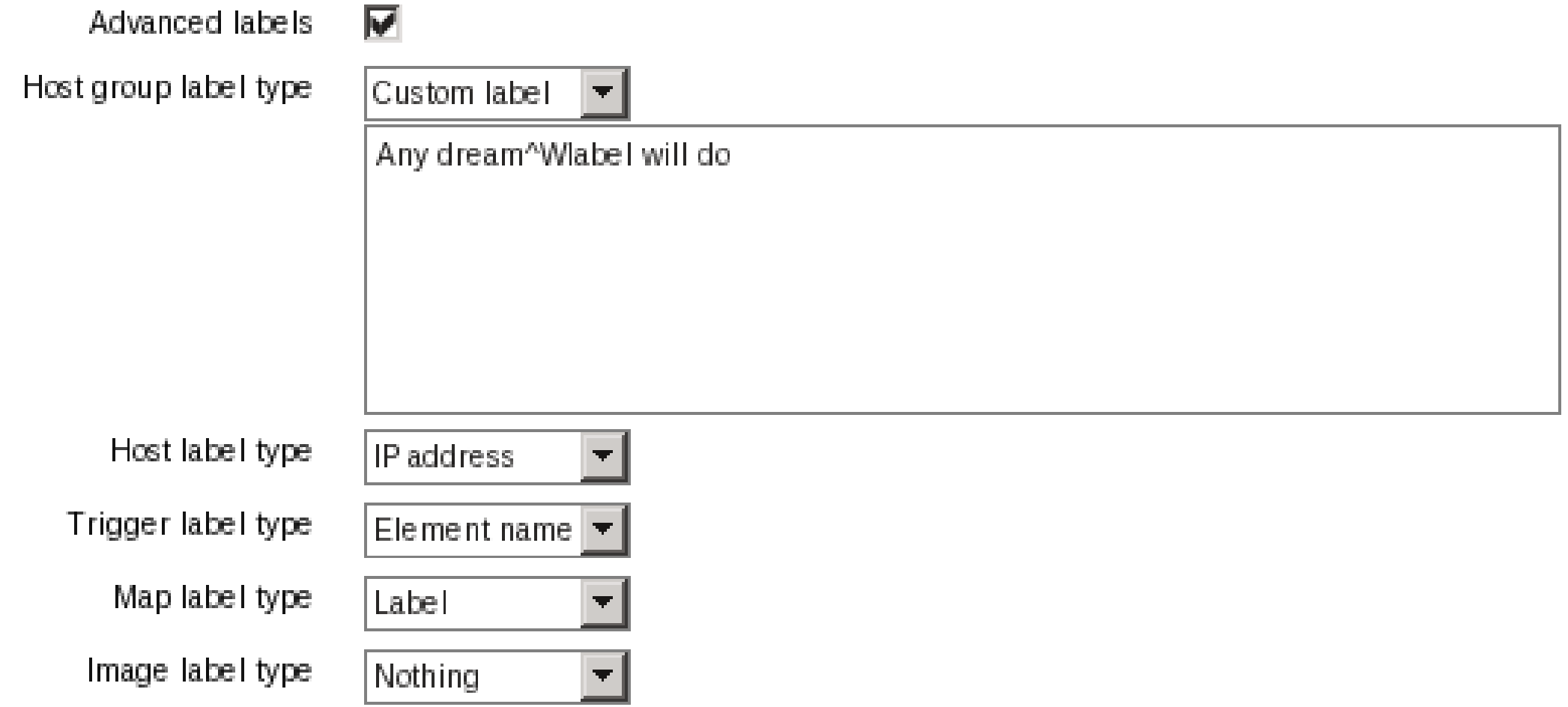
- General
- Editing

The URLs

- Before – one element, one URL
- Now – unlimited count, custom label and two levels
  - Map element level
  - Map level



Label type per element type



Icon mapping

Name: Some iconmap

Mappings

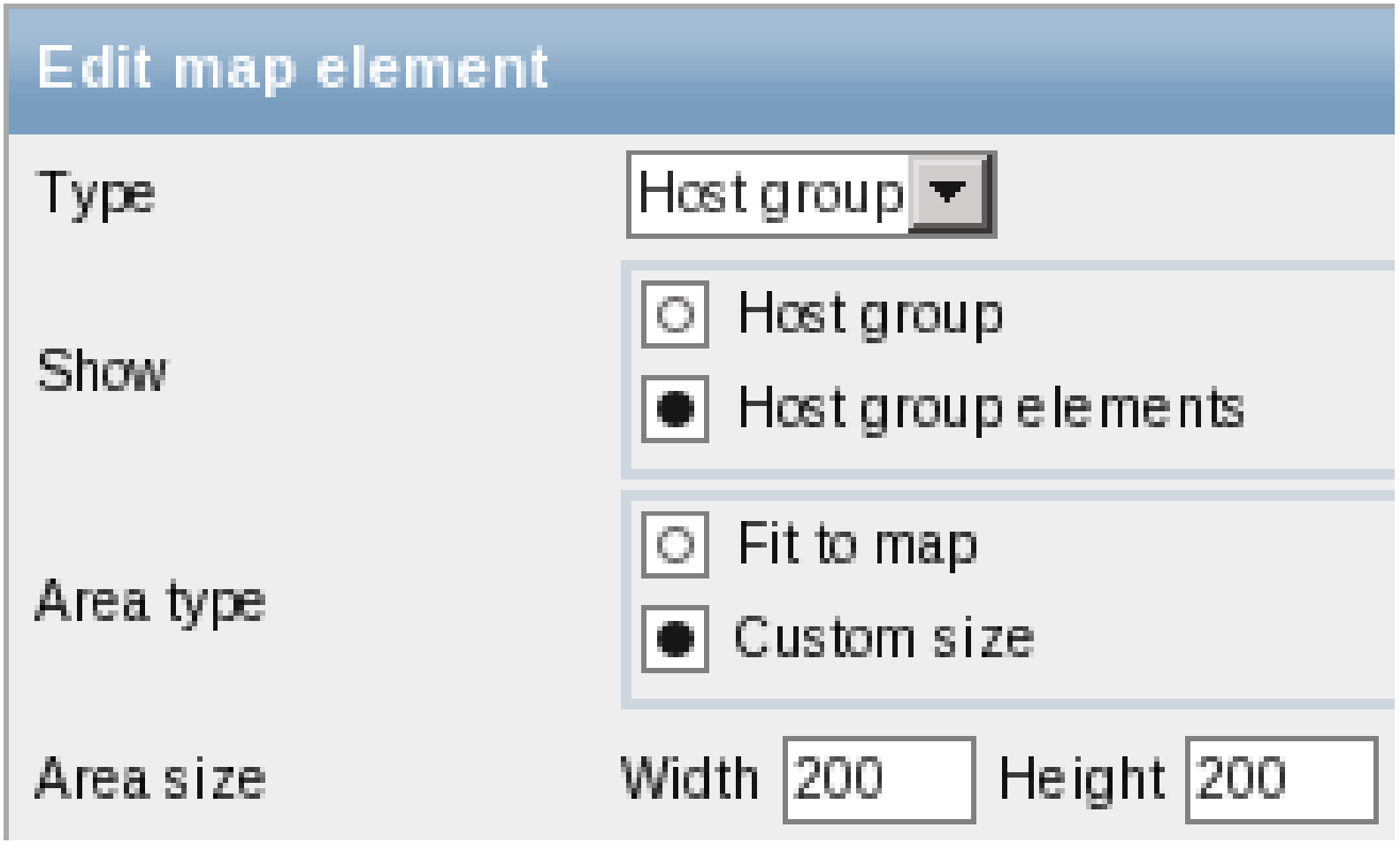
	Inventory field	Expression	Icon	
1:	Serial number A	^SG12	Notebook	Remove
2:	Contract number	-123-	Phone	Remove
3:	Tag	[0-9]+Some Vendor	Hub	Remove
4:	Asset tag	^UPS	UPS	Remove
5:	Location	Rīga	Workstation	Remove
6:	OS	Linux	Server	Remove

Add

Default: Satellite

Save | Clone | Delete | Cancel

Displaying hosts from a host group



Network map improvements

- Editing

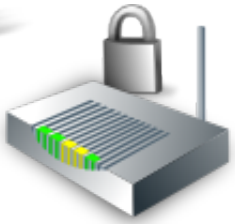
Grid selection saving

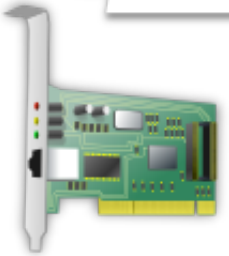
- Showing the grid
- Aligning to the grid
- Grid size

Select elements by dragging

- Yeeeeah

New icons





Perform, 'dammit

Caching helps

- General config
- Triggers
- User macros

General caching

- General configuration caching
  - Global refresh periods
  - Discovery group
  - Custom severity names
  - … other things

Trigger caching

- Most trigger detail cached
- Lots of triggers – less of an issue

User macro caching

- 1.8 – per individual daemon process
- 2.0 – global

Housekeeping...

...on PostgreSQL

Notable features

Database integrity

Nanosecond support

Goodbye, UNKNOWN

- UNKNOWN trigger state removed
- “Fuzzy” marker

Event export to CSV

- Export visible events

Inventory autopopulation

- Define which inventory field an item populates
- Any item type
- + inventory report

Inventory related items

- Hardware chassis details
- CPU frequency, vendor, model...
- PCI/USB device list
- MAC addresses
- Operating system name, architecture
- Installed package list

More items

- system.localtime – timestamp/human readable
- DNS items – Windows, remote servers, timeout, retry count...
- ...more

Skip the old

- Before – add logfile, kill server
- Now – keep server alive

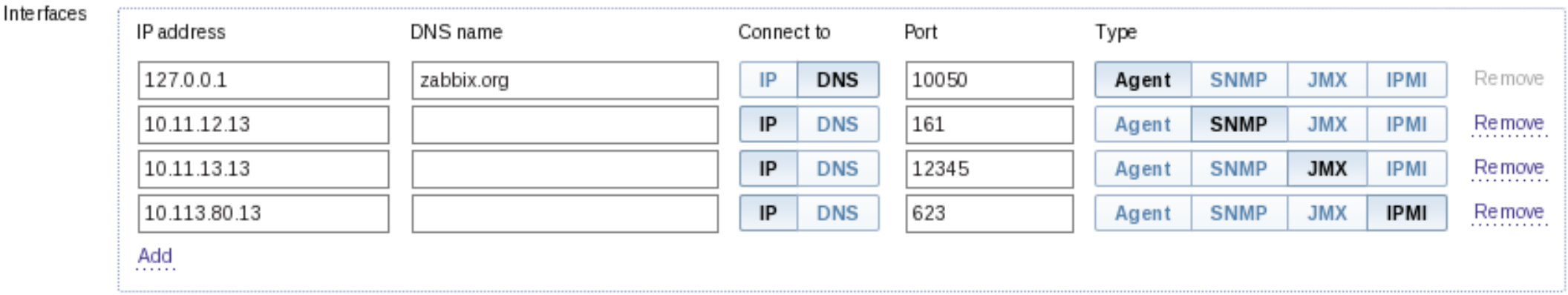
Ability to send empty strings for custom checks

- Empty strings
- External – less hardcoding
- vfs.file.contents[ ]

What's it do ?

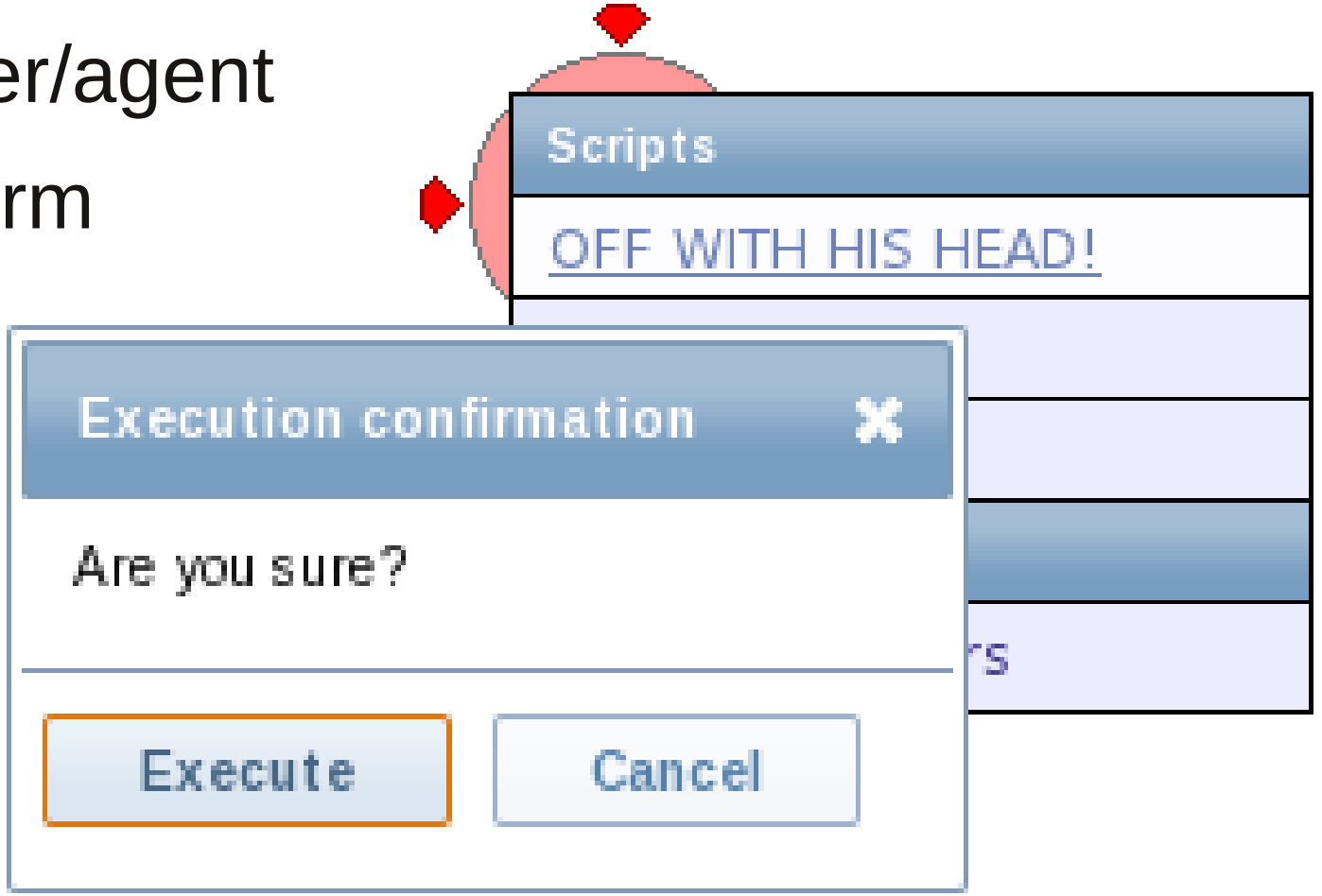
- Item descriptions

Multi-homed host support



Global scripts

- Server/agent
- Confirm



Remote commands

- Global scripts
- SSH / telnet
- On the server

Discovery & auto-registration

- DNS
- IP
- Port

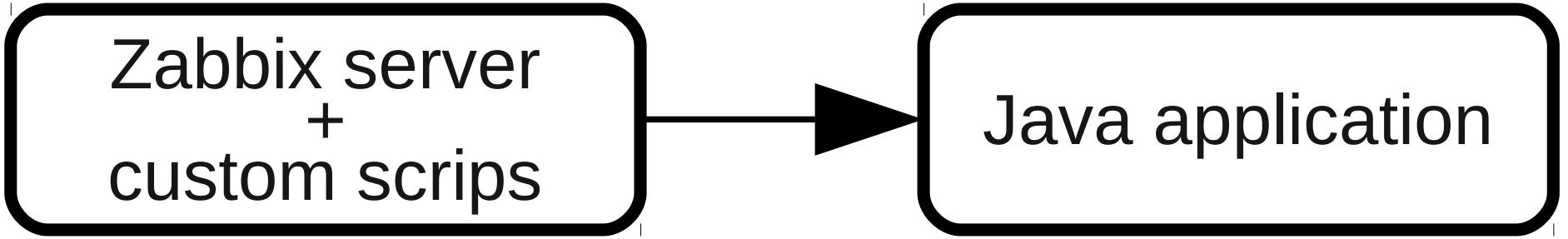
Integrate the trap

- Still uses snmptrapd
- Embedded Perl – faster
- No need for a custom script
- May use SNMP-TT

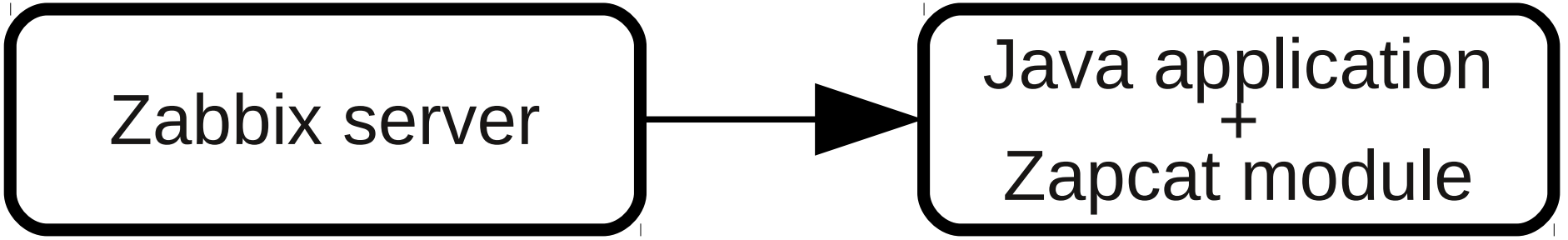
When the trapper was integrated in the server ?

JMX: before

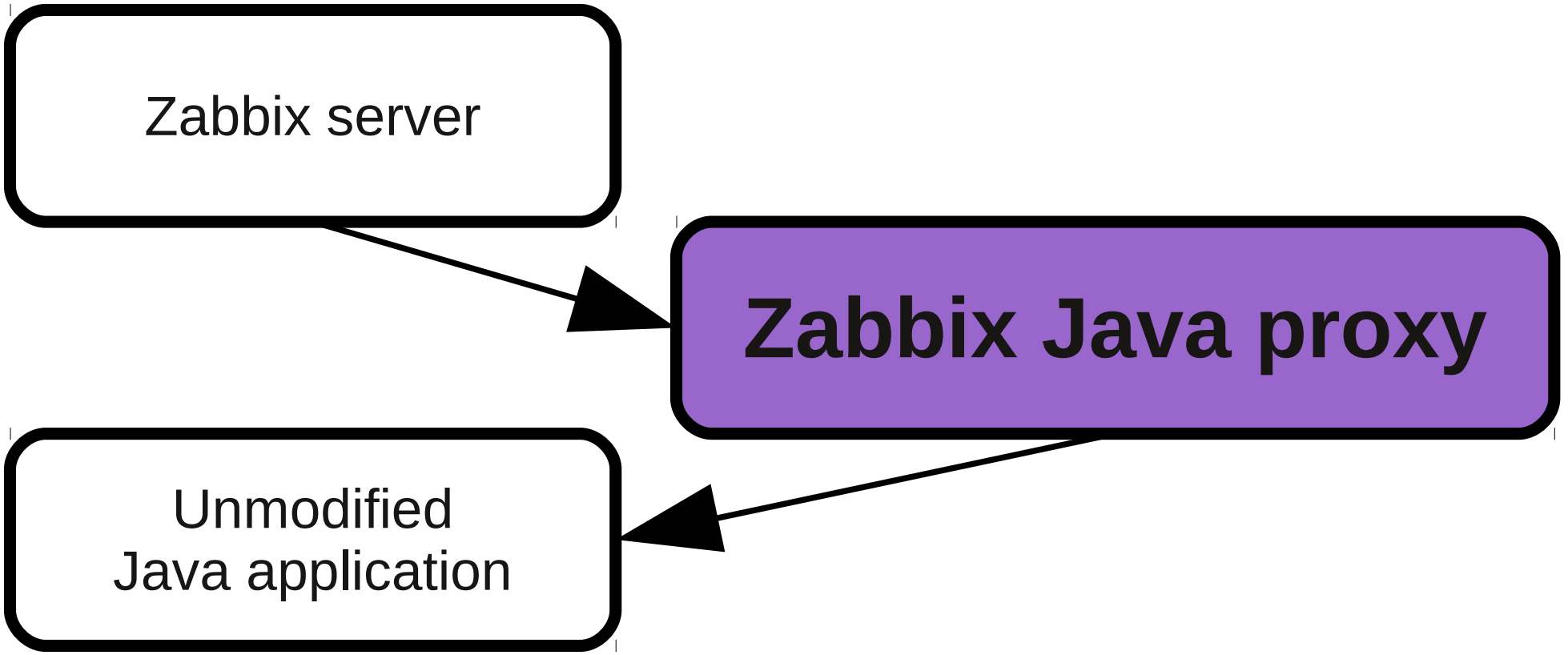
- Custom scripts



- Zapcat (Zabbix-Java bridge)



JMX: after


Zabbix server
Zabbix Java proxy
Unmodified
Java application

Boolean item type

- Translate text to number

→ **1**	→ **0**
true	false
t	f
yes	no
y	n
up	down
running	unused
enabled	disabled
available	unavailable

LLD

- What's that?

Can we define it?

- Multiples of things that differ per host

Built-in LLD: network

- Network interface discovery

Built-in LLD: filesystems

- Mounted filesystem discovery

Built-in LLD: SNMP

- Any MIB subtree
  - Network interfaces
  - Applications
  - ...anything

DNF

Hail the Duke

WHEN ?!11

When it's ready

When will it be ready ?

- Blockers
- Some 85 left

Thanks for surviving

- Other questions ?