



Webinar

# Reporting in Zabbix

all our microphones are muted

ask your questions in Q&A, not in the Chat

use Chat for discussion, networking or applause

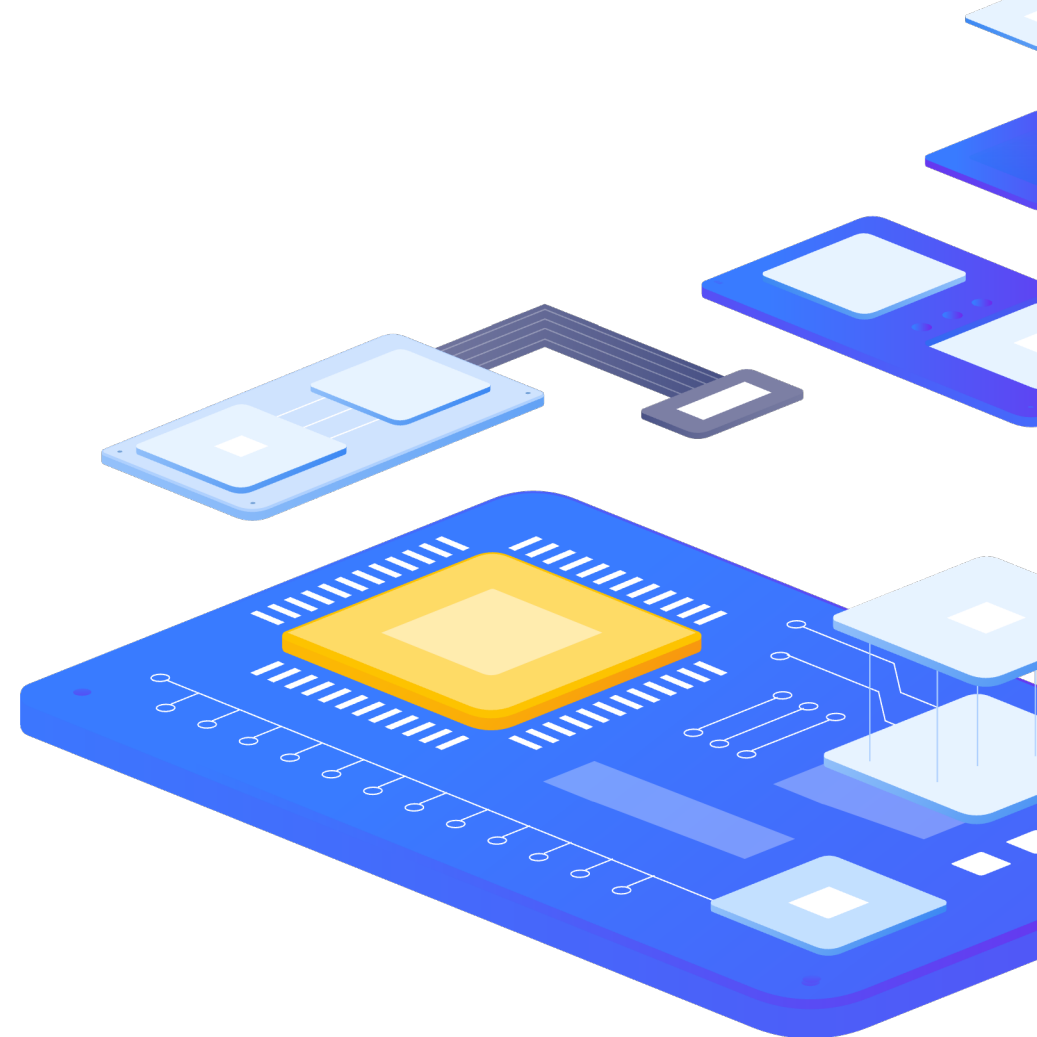


1

Reporting overview

# Reporting overview

- ▶ The Reports menu features several sections that contain a variety of predefined and user-customizable reports focused on displaying an overview of such parameters as system information, triggers and gathered data.
- ▶ From version Zabbix 5.4 - Scheduled reports  
Users with sufficient permissions can configure scheduled generation of PDF versions of the dashboards, which will be sent by email to specified recipients.



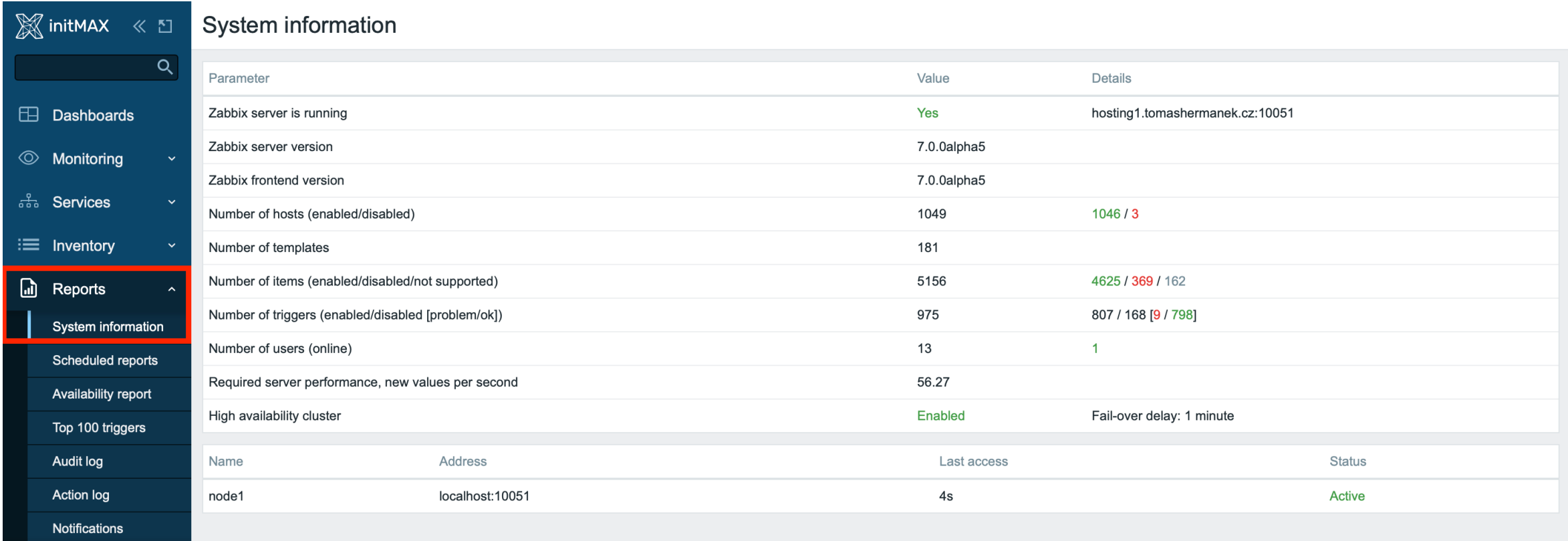
2

Menu - Reports



# Menu – Reports – System information

▶ System information is displaying a summary of key data on Zabbix server and its system.



The screenshot shows the Zabbix web interface. On the left is a dark blue sidebar menu with the 'Reports' section highlighted in red. The main content area is titled 'System information' and contains two tables. The first table lists various system parameters and their values. The second table shows the status of the Zabbix server node.

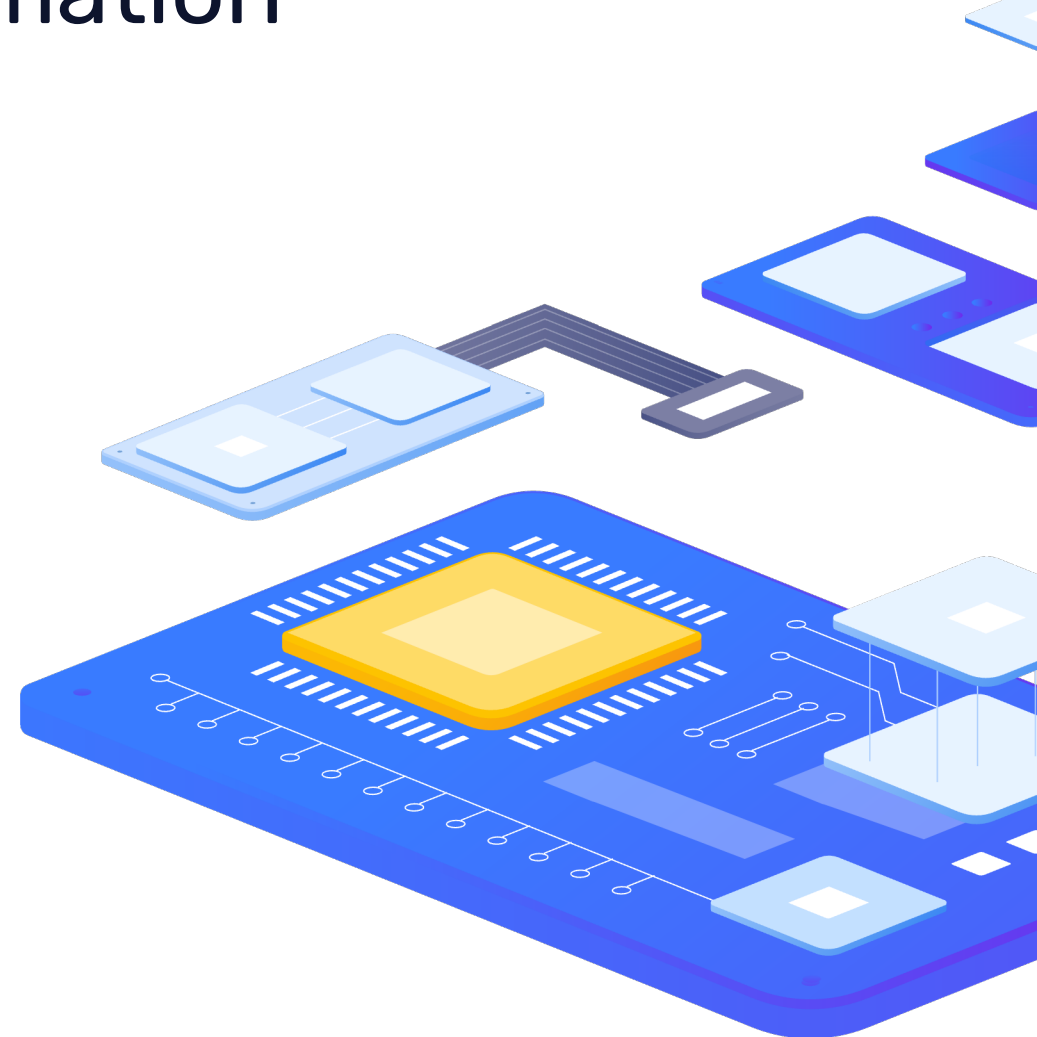
Parameter	Value	Details
Zabbix server is running	Yes	hosting1.tomashermanek.cz:10051
Zabbix server version	7.0.0alpha5	
Zabbix frontend version	7.0.0alpha5	
Number of hosts (enabled/disabled)	1049	1046 / 3
Number of templates	181	
Number of items (enabled/disabled/not supported)	5156	4625 / 369 / 162
Number of triggers (enabled/disabled [problem/ok])	975	807 / 168 [9 / 798]
Number of users (online)	13	1
Required server performance, new values per second	56.27	
High availability cluster	Enabled	Fail-over delay: 1 minute

Name	Address	Last access	Status
node1	localhost:10051	4s	Active

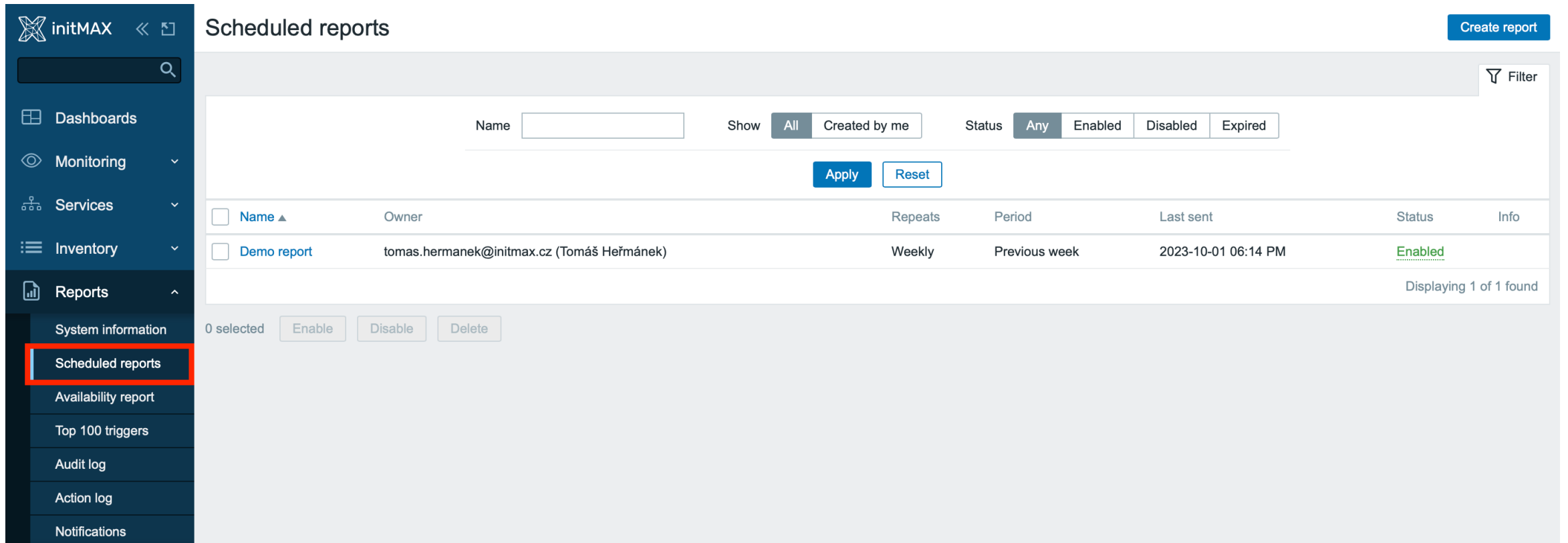
# Menu – Reports – System information

- › Super useful after upgrade
- › In Zabbix version 7.0
  - › Current **server** version number is displayed.
  - › Zabbix **frontend** version number is displayed.
- › In Zabbix version 5.0
  - › Database history tables upgraded
- › With the high availability setup enabled, a separate block is displayed below the system stats with details of high availability nodes. This block is visible to Zabbix Super Admin users only.



# Menu – Reports – Scheduled reports

- ▶ Users with sufficient permissions can configure scheduled generation of PDF versions of the dashboards, which will be sent by email to specified recipients.



Scheduled reports

Create report

Filter

Name  Show **All** Created by me Status **Any** Enabled Disabled Expired

Apply Reset

<input type="checkbox"/> Name ▲	Owner	Repeats	Period	Last sent	Status	Info
<input type="checkbox"/> Demo report	tomas.hermanek@initmax.cz (Tomáš Heřmánek)	Weekly	Previous week	2023-10-01 06:14 PM	Enabled	

0 selected Enable Disable Delete

Displaying 1 of 1 found

# Menu – Reports – Scheduled reports

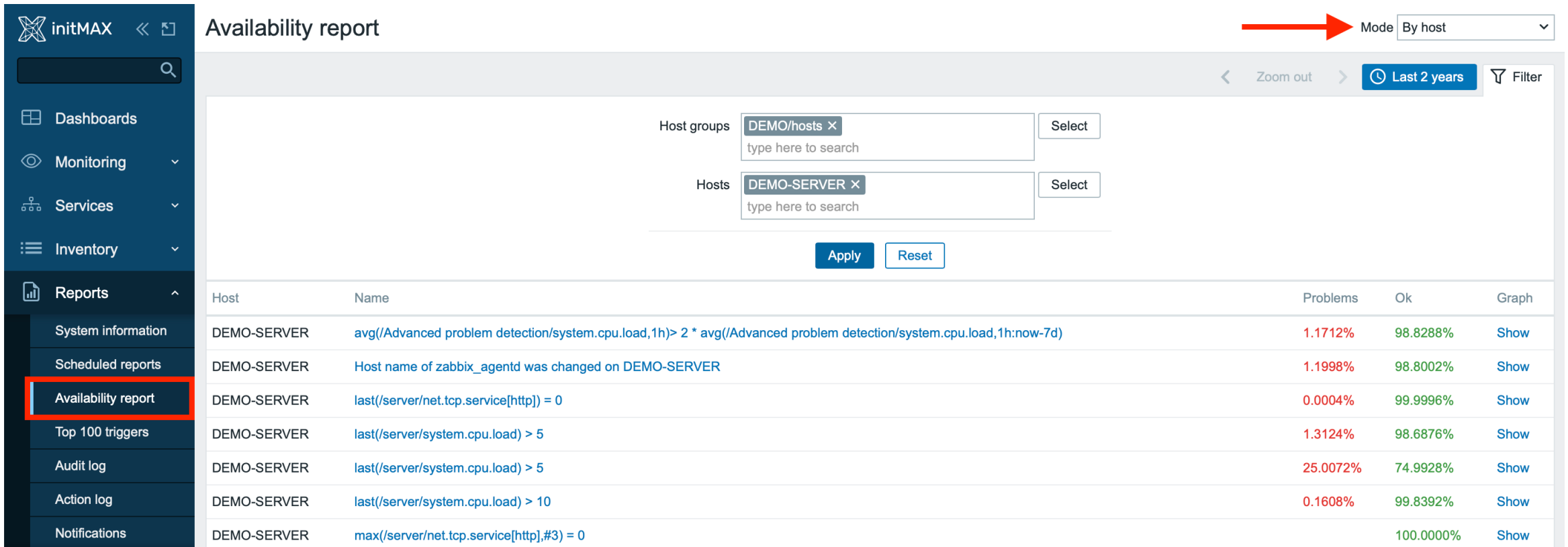
- › PDF report is only for a dashboard
- › Zabbix have a separate package for reporting
- › Can respect recipient user permissions
  
- › **We will talk more about this topic a bit later**





# Menu – Reports – Availability report

- ▶ You can see what proportion of time each trigger has been in problem/ok state. The percentage of time for each state is displayed.

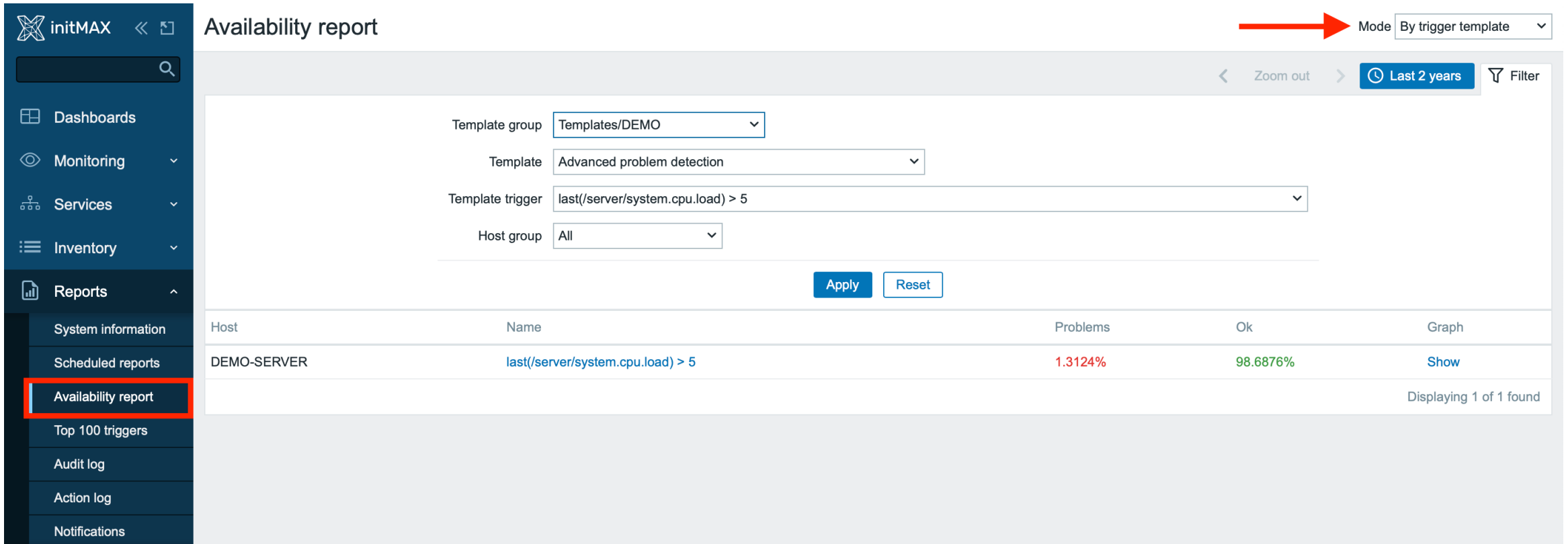


The screenshot shows the Zabbix web interface for the 'Availability report' page. The left sidebar contains a navigation menu with 'Reports' selected and 'Availability report' highlighted. The main content area shows a table of triggers with columns for Host, Name, Problems, Ok, and Graph. Above the table are filters for Host groups (DEMO/hosts) and Hosts (DEMO-SERVER), along with 'Apply' and 'Reset' buttons. A red arrow points to the 'Mode' dropdown menu, which is set to 'By host'. The table lists several triggers for DEMO-SERVER, showing their problem and ok percentages over the last 2 years.

Host	Name	Problems	Ok	Graph
DEMO-SERVER	avg(/Advanced problem detection/system.cpu.load,1h)> 2 * avg(/Advanced problem detection/system.cpu.load,1h:now-7d)	1.1712%	98.8288%	Show
DEMO-SERVER	Host name of zabbix_agentd was changed on DEMO-SERVER	1.1998%	98.8002%	Show
DEMO-SERVER	last(/server/net.tcp.service[http]) = 0	0.0004%	99.9996%	Show
DEMO-SERVER	last(/server/system.cpu.load) > 5	1.3124%	98.6876%	Show
DEMO-SERVER	last(/server/system.cpu.load) > 5	25.0072%	74.9928%	Show
DEMO-SERVER	last(/server/system.cpu.load) > 10	0.1608%	99.8392%	Show
DEMO-SERVER	max(/server/net.tcp.service[http],#3) = 0		100.0000%	Show

# Menu – Reports – Availability report

- ▶ You can see what proportion of time each trigger has been in problem/ok state. The percentage of time for each state is displayed.



The screenshot shows the Zabbix web interface for an Availability report. The left sidebar contains a menu with 'Reports' expanded, and 'Availability report' highlighted with a red box. The main content area shows the report configuration and a data table. A red arrow points to the 'Mode' dropdown menu, which is set to 'By trigger template'.

Availability report

Mode: By trigger template

Zoom out Last 2 years Filter

Template group: Templates/DEMO

Template: Advanced problem detection

Template trigger: last(/server/system.cpu.load) > 5

Host group: All

Apply Reset

Host	Name	Problems	Ok	Graph
DEMO-SERVER	last(/server/system.cpu.load) > 5	1.3124%	98.6876%	Show

Displaying 1 of 1 found

# Menu – Reports – Availability report


- ▶ From the drop-down menu in the upper right corner, you can choose the selection mode - whether to display triggers by hosts or triggers belonging to a template.
- ▶ The time period selector can be opened by clicking on the time period tab next to the filter.
- ▶ Clicking on Show in the Graph column displays a bar graph where availability information is displayed in bar format. Each bar represents a past week of the current year.



## Reporting in Zabbix

# Menu – Reports – Triggers top 100

- ▶ You can see the triggers that have changed their state most often within the evaluation period, sorted by the number of status changes.


initMAX

### Top 100 triggers

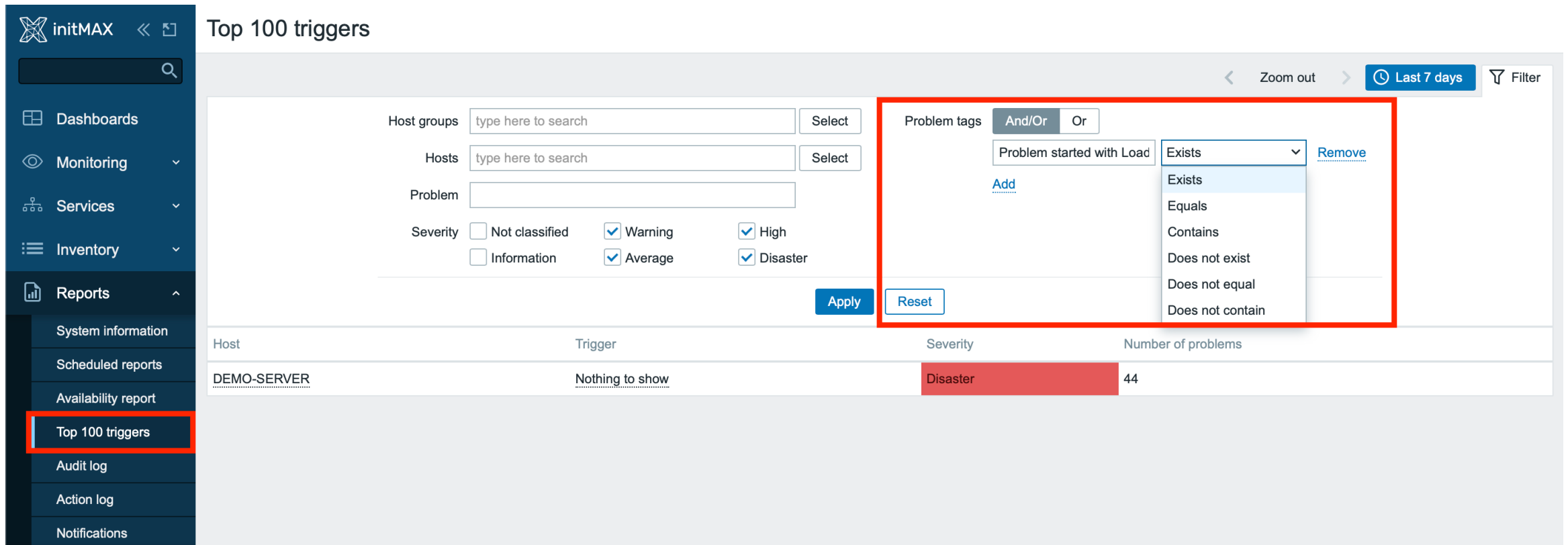
Zoom out
Last 7 days

Host	Trigger	Severity	Number of problems
DEMO-SERVER	Nothing to show	Disaster	44
DEMO-SERVER	<a href="#">last(/server/system.cpu.load) &gt; 10</a>	Average	18
DEMO-SERVER	<a href="#">last(/server/system.cpu.load) &gt; 5</a>	Warning	8
idrac	<a href="#">System status is in warning state</a>	Warning	6
wazuh.lab.initmax.cz	<a href="#">VMware: VM has been restarted</a>	Warning	6

## Reporting in Zabbix

# Menu – Reports – Triggers top 100

- ▶ From Zabbix 7.0 - The possibility to filter triggers by problem name and tags has been added. (New widget has been added)



**Top 100 triggers**

Host groups:  [Select](#)

Hosts:  [Select](#)

Problem:

Severity:  Not classified  Warning  High  Information  Average  Disaster

[Apply](#) [Reset](#)

Problem tags: **And/Or** Or

Problem started with Load  [Remove](#)

[Add](#)

Exists  
Equals  
Contains  
Does not exist  
Does not equal  
Does not contain

Host	Trigger	Severity	Number of problems
DEMO-SERVER	Nothing to show	Disaster	44

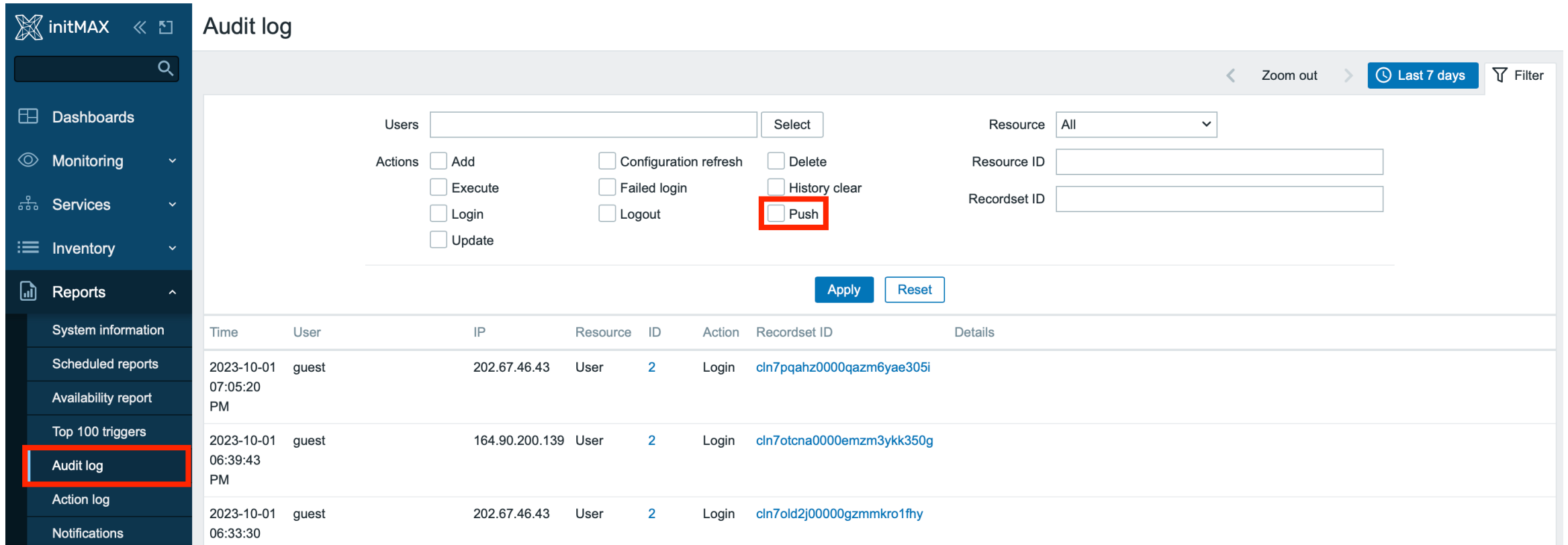
# Menu – Reports – Triggers top 100

- ▶ From Zabbix 7.0 you can use tags for filtering out unwanted data
- ▶ From Zabbix 7.0 you have a new widget - Top triggers
- ▶ Super useful to find problem triggers or misconfiguration in thresholds or pointing you to certain problematic parts in your environment



# Menu – Reports – Audit log

► Users can view a list of changes made in the frontend. (not only)



The screenshot displays the Zabbix Audit log interface. The left sidebar shows the 'Reports' menu with 'Audit log' highlighted. The main area shows filters for Users, Actions, Resource, Resource ID, and Recordset ID. The 'Push' action is highlighted in red. Below the filters is a table of audit log entries.

Time	User	IP	Resource	ID	Action	Recordset ID	Details
2023-10-01 07:05:20 PM	guest	202.67.46.43	User	2	Login	cln7pqahz0000qazm6yae305i	
2023-10-01 06:39:43 PM	guest	164.90.200.139	User	2	Login	cln7otcna0000emzm3ykk350g	
2023-10-01 06:33:30	guest	202.67.46.43	User	2	Login	cln7old2j00000gzmmkro1fhy	

# Menu – Reports – Audit log


- ▶ Reworked in version 6.0 - The audit log now contains records about all configuration changes for all Zabbix objects, including changes that occurred as a result of executing an LLD rule, a network discovery action, an auto-registration action, or a script execution. Previously, configuration changes initiated from Zabbix server, for example, as a result of executing a discovery rule, were not recorded. Now such object modifications will be stored as audit records attributed to the user System. (After upgrade you lose old audit log data)
- ▶ From Zabbix 7.0 The auditlog table has been converted to a hypertable on TimescaleDB in new installations, to benefit from automatic partitioning on time (7 days by default) and better performance.
  - ▶ To successfully upgrade existing installations, you must re-run the timescaledb.sql script, located in the path database/postgresql, **before starting Zabbix server**. Zabbix server will log a warning, if started without running this script first.



## Reporting in Zabbix

# Menu – Reports – Action log

- ▶ Users can view details of various operations executed within an action (notifications, remote commands, ...)


initMAX


Action log


[Export to CSV](#)

Zoom out

Last 15 minutes

Filter

From:  

To:  

[Apply](#)

<a href="#">Last 2 days</a>	<a href="#">Yesterday</a>	<a href="#">Today</a>	<a href="#">Last 5 minutes</a>
<a href="#">Last 7 days</a>	<a href="#">Day before yesterday</a>	<a href="#">Today so far</a>	<a href="#">Last 15 minutes</a>
<a href="#">Last 30 days</a>	<a href="#">This day last week</a>	<a href="#">This week</a>	<a href="#">Last 30 minutes</a>
<a href="#">Last 3 months</a>	<a href="#">Previous week</a>	<a href="#">This week so far</a>	<a href="#">Last 1 hour</a>
<a href="#">Last 6 months</a>	<a href="#">Previous month</a>	<a href="#">This month</a>	<a href="#">Last 3 hours</a>
<a href="#">Last 1 year</a>	<a href="#">Previous year</a>	<a href="#">This month so far</a>	<a href="#">Last 6 hours</a>
<a href="#">Last 2 years</a>		<a href="#">This year</a>	<a href="#">Last 12 hours</a>
		<a href="#">This year so far</a>	<a href="#">Last 1 day</a>

Time	Action	Media type	Recipient	Message	Status	Info
2023-10-02 08:43:55 AM	Jira Servicedesk, MS Teams,PUSH, Email	Email	tomas.hermanek (Tomáš Heřmánek) <i>tomas.hermanek@initmax.cz</i>	<p><b>Subject:</b> Problem: Meetup application is DOWN!</p> <p><b>Message:</b> Problem started at 08:43:54 on 2023.10.02 Problem name: Meetup application is DOWN! Host: Jira Servicedesk Severity: Warning Operational data: Down (0) Original problem ID: 12934110 <a href="https://www.initmax.cz/zabbix-monitoring/">https://www.initmax.cz/zabbix-monitoring/</a></p>	Sent	


Reports


System information


Scheduled reports


Availability report


Top 100 triggers


Audit log

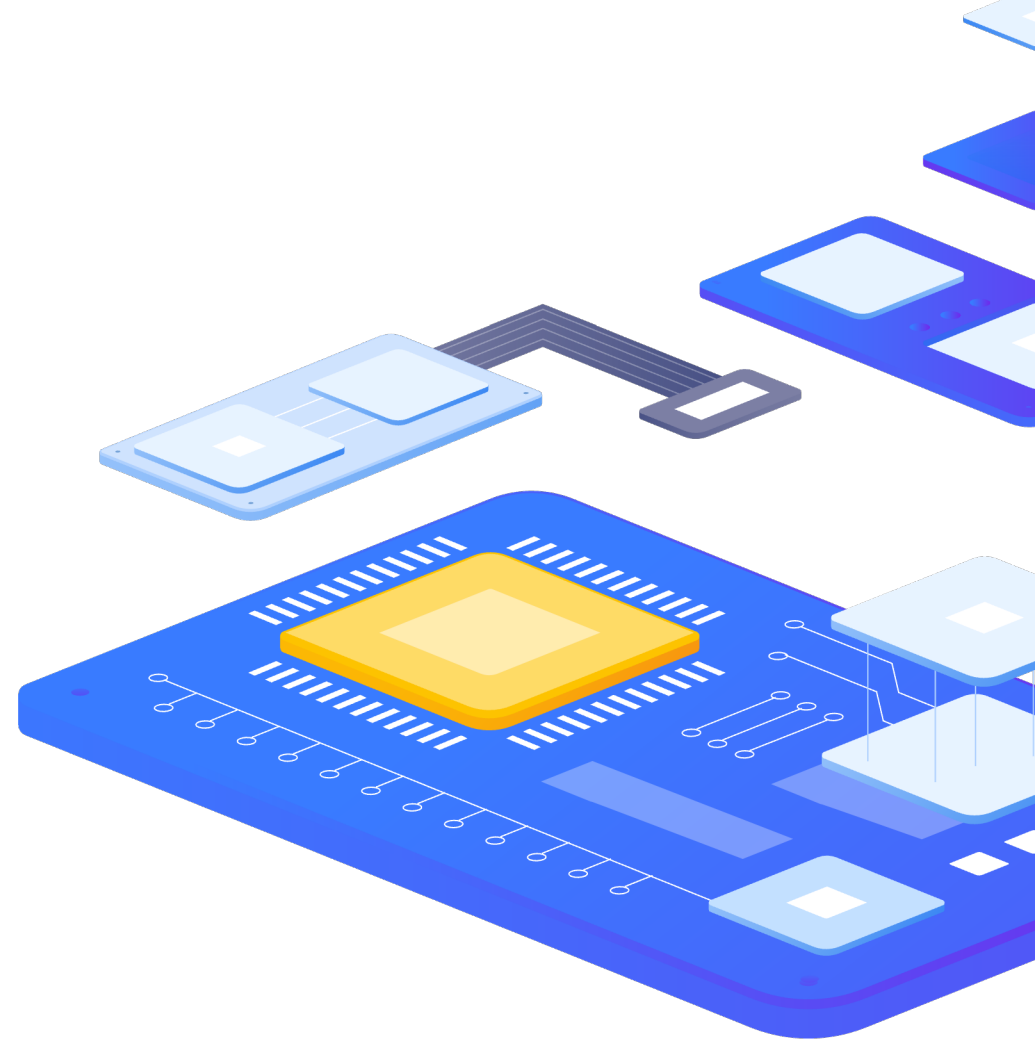

Action log


Notifications


Data collection

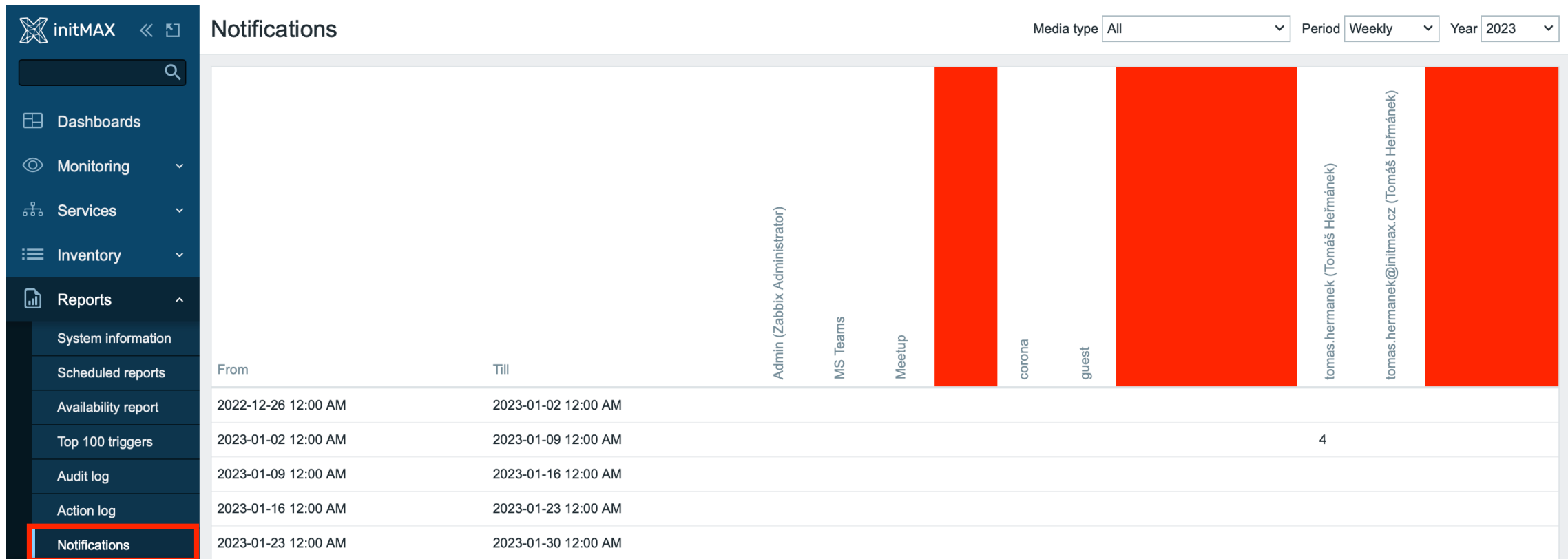
# Menu – Reports – Action log

- ▶ Trigger actions (Problems)
- ▶ Service actions (Services)
- ▶ Discovery actions
- ▶ Auto-registration actions
- ▶ Internal actions (Unsupported items,...)



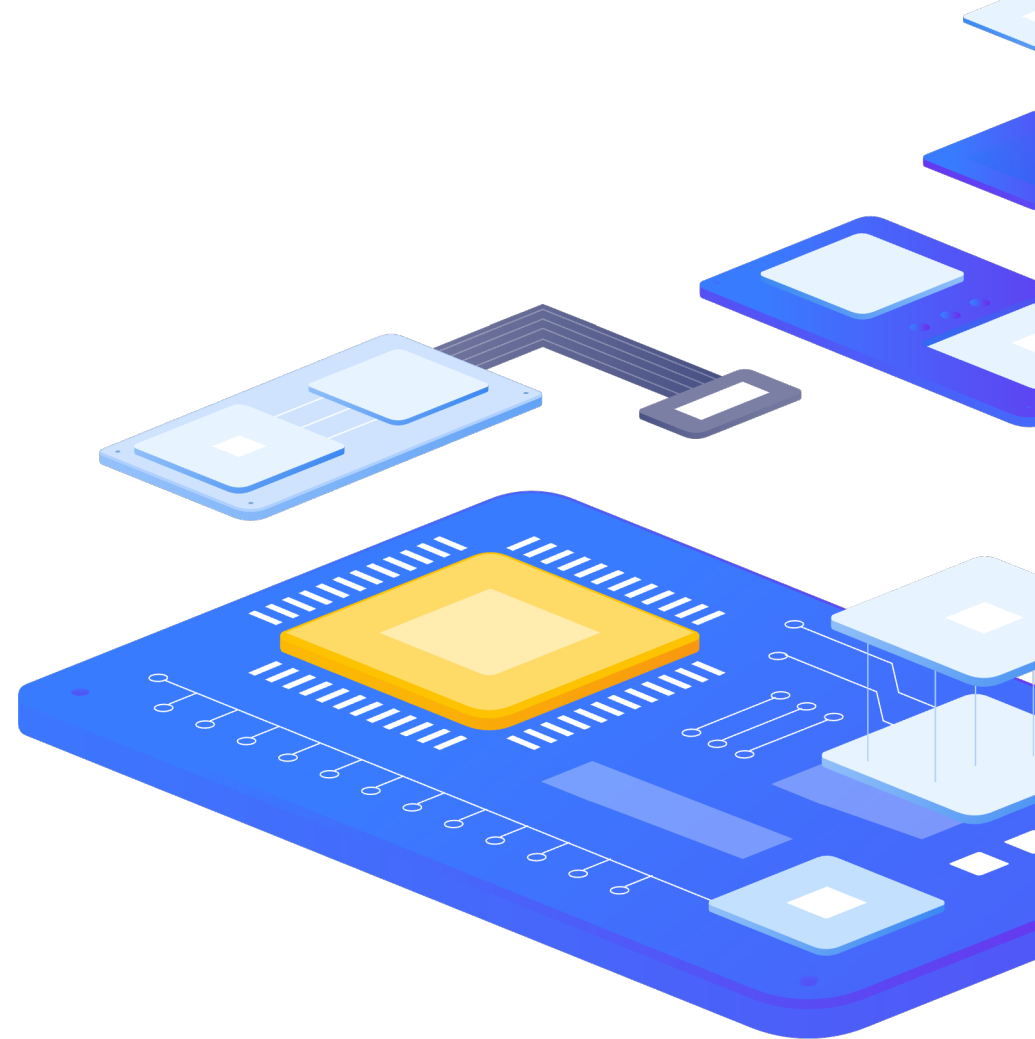
# Menu – Reports – Notifications

- ▶ Notifications section is a report on the number of notifications sent to each user.



# Menu – Reports – Notifications

- ▶ From the dropdown menu in the top right corner you can choose the media type (or all), period (data for each day/week/month/year) and year for the notifications sent.
- ▶ Each column displays totals per one system user.



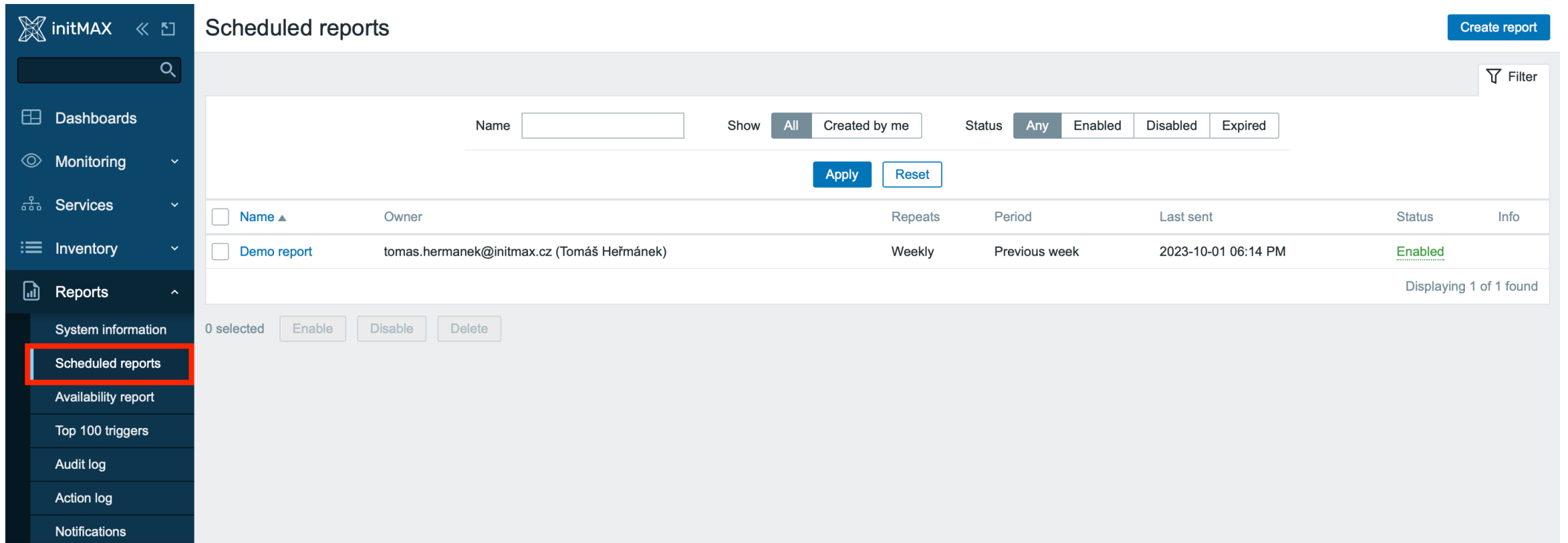
3

Scheduled reports



# Scheduled reports

- Users with sufficient permissions can configure scheduled generation of PDF versions of the dashboards, which will be sent by email to specified recipients.



Scheduled reports

Create report

Filter

Name  Show **All** Created by me Status **Any** Enabled Disabled Expired

Apply Reset

<input type="checkbox"/>	Name ▲	Owner	Repeats	Period	Last sent	Status	Info
<input type="checkbox"/>	Demo report	tomas.hermanek@initmax.cz (Tomáš Heřmánek)	Weekly	Previous week	2023-10-01 06:14 PM	Enabled	

0 selected Enable Disable Delete

Displaying 1 of 1 found

System information

**Scheduled reports**

Availability report

Top 100 triggers

Audit log

Action log

Notifications

# Scheduled reports

- ▶ PDF reports are only for dashboards
- ▶ Zabbix have a separate package for reporting (zabbix-web-service)
- ▶ **Scheduled reports function now sends a report that contains multiple pages, even so for multi-paged dashboards**
- ▶ Can respect recipient user permissions
- ▶ Period for reported data is hardcoded (Previous day/ Previous week/ Previous month/ Previous year)
- ▶ Report generation frequency (daily/weekly/monthly/yearly)

\* Owner

\* Name

\* Dashboard

Period

Cycle

Start time  :

\* Repeat on  Monday  Tuesday  Wednesday  Thursday  Friday  Saturday  Sunday

Start date

End date

Subject

Message 

```
Previous day
Yesterday {{TIME}.fmttime(%d/%m/%y, -1d)}
Yesterday {{TIME}.fmttime(%d/%B/%Y, -1d)}
{{TIME}.fmttime(%A %d %B %Y, -1d)}

Previous week
Week from {{TIME}.fmttime(%d/%m/%y, -1w/w)} to
{{TIME}.fmttime(%d/%m/%y, -1w/w)}
```

\* Subscriptions

Recipient	Generate report by	Status	Action
tomas.hermanek@ini...	tomas.hermanek@ini...	<span style="color: green;">Include</span>	<span style="color: blue;">Remove</span>

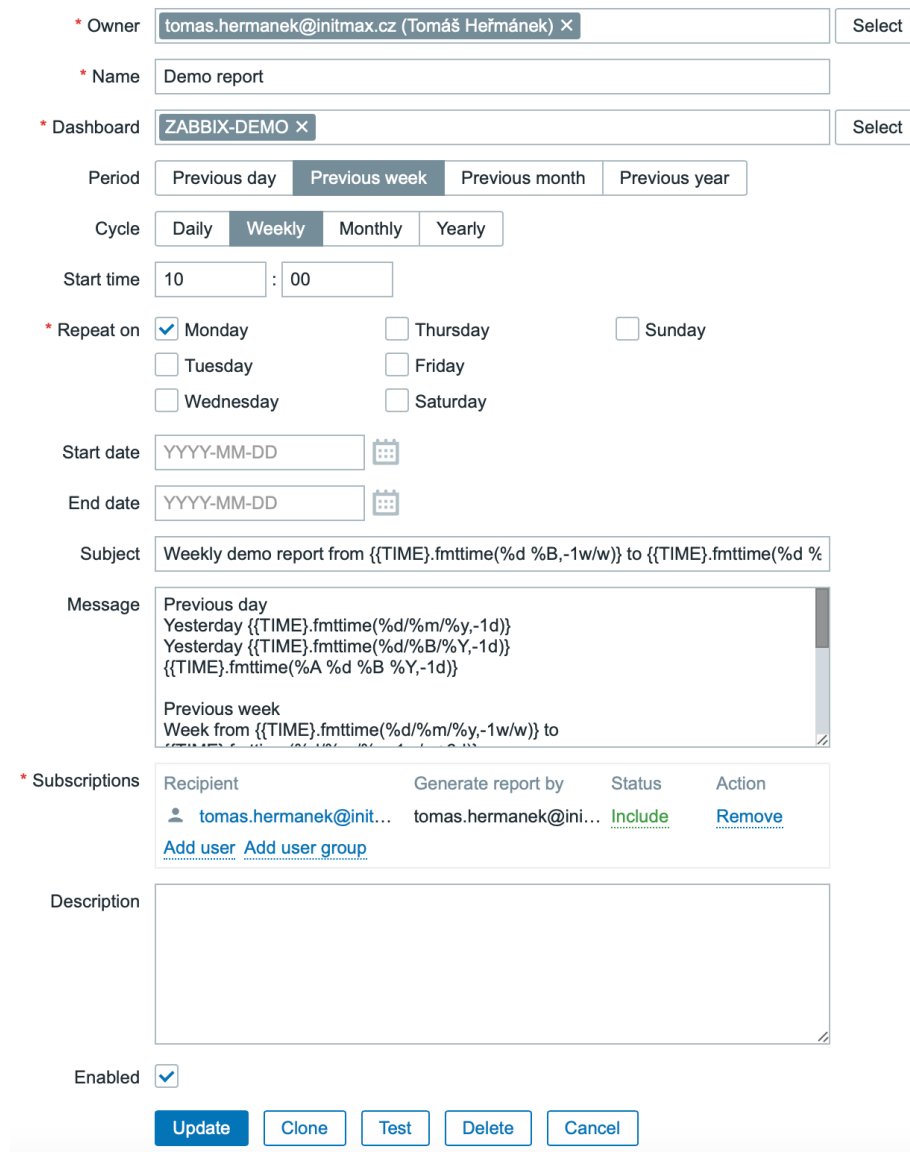
[Add user](#) [Add user group](#)

Description

Enabled

# Scheduled reports

- ▶ You can optionally choose Start or End date
- ▶ Macro {TIME} is supported in Subject and in Message
- ▶ For subscriptions (email notifications) it is possible to define user, group or exclude them
- ▶ Report can be generated not only by owner but also by recipient, the report then uses recipient permissions
- ▶ For test button you need to have minimal one email media with not-classified severity enabled
- ▶ Report can be created from menu or dashboard



The screenshot shows the configuration page for a scheduled report in Zabbix. The form includes the following fields and options:

- Owner:** tomas.hermanek@initmax.cz (Tomáš Heřmánek) × [Select]
- Name:** Demo report
- Dashboard:** ZABBIX-DEMO × [Select]
- Period:** Previous day | Previous week | Previous month | Previous year
- Cycle:** Daily | Weekly | Monthly | Yearly
- Start time:** 10 : 00
- Repeat on:**  Monday,  Tuesday,  Wednesday,  Thursday,  Friday,  Saturday,  Sunday
- Start date:** YYYY-MM-DD [calendar icon]
- End date:** YYYY-MM-DD [calendar icon]
- Subject:** Weekly demo report from {{TIME}.fmttime(%d %B, -1w/w)} to {{TIME}.fmttime(%d %
- Message:**

```
Previous day
Yesterday {{TIME}.fmttime(%d/%m/%y, -1d)}
Yesterday {{TIME}.fmttime(%d/%B/%Y, -1d)}
{{TIME}.fmttime(%A %d %B %Y, -1d)}

Previous week
Week from {{TIME}.fmttime(%d/%m/%y, -1w/w)} to
```
- Subscriptions:** A table with columns: Recipient, Generate report by, Status, Action.

Recipient	Generate report by	Status	Action
tomas.hermanek@ini...	tomas.hermanek@ini...	Include	Remove

[Add user](#) [Add user group](#)
- Description:** [Empty text area]
- Enabled:**
- Buttons:** Update, Clone, Test, Delete, Cancel



# Scheduled reports - Message

## Subject (example for a week)

```
Weekly demo report From {{TIME}.fmttime(%d %B,-1w/w)} to {{TIME}.fmttime(%d %B %Y,-1w/w+6d)}
```

Weekly demo report from 18 September to 24 September 2023

## Messages (examples)

```
Week from {{TIME}.fmttime(%d/%m/%y,-1w/w)} to {{TIME}.fmttime(%d/%m/%y,-1w/w+6d)}
```

```
Week from {{TIME}.fmttime(%d/%B/%Y,-1w/w)} to {{TIME}.fmttime(%d/%B/%Y,-1w/w+6d)}
```

```
Week number {{TIME}.fmttime(%W,-1w/w)}
```

Week from 18/09/23 to 24/09/23

Week from 18/September/2023 to 24/September/2023

Week number 38

# Scheduled reports - Message

## Messages (another examples)

Previous day

```
Yesterday {{TIME}}.fmttime(%d/%m/%y, -1d)}
```

```
Yesterday {{TIME}}.fmttime(%d/%B/%Y, -1d)}
```

```
{{TIME}}.fmttime(%A %d %B %Y, -1d)}
```

Previous month

```
Month from {{TIME}}.fmttime(%d/%m/%y, -1M)} to {{TIME}}.fmttime(%d/%m/%y, -1d)}
```

```
Month from {{TIME}}.fmttime(%d/%B/%Y, -1M)} to {{TIME}}.fmttime(%d/%B/%Y, -1d)}
```

```
Month {{TIME}}.fmttime(%B, -1M/M)}
```

More information about strftime function used in {TIME} macro

<https://www.php.net/manual/en/function.strftime.php>

If this examples not works you need to update your Zabbix regarding to bug in Zabbix.

# Scheduled reports – Architecture

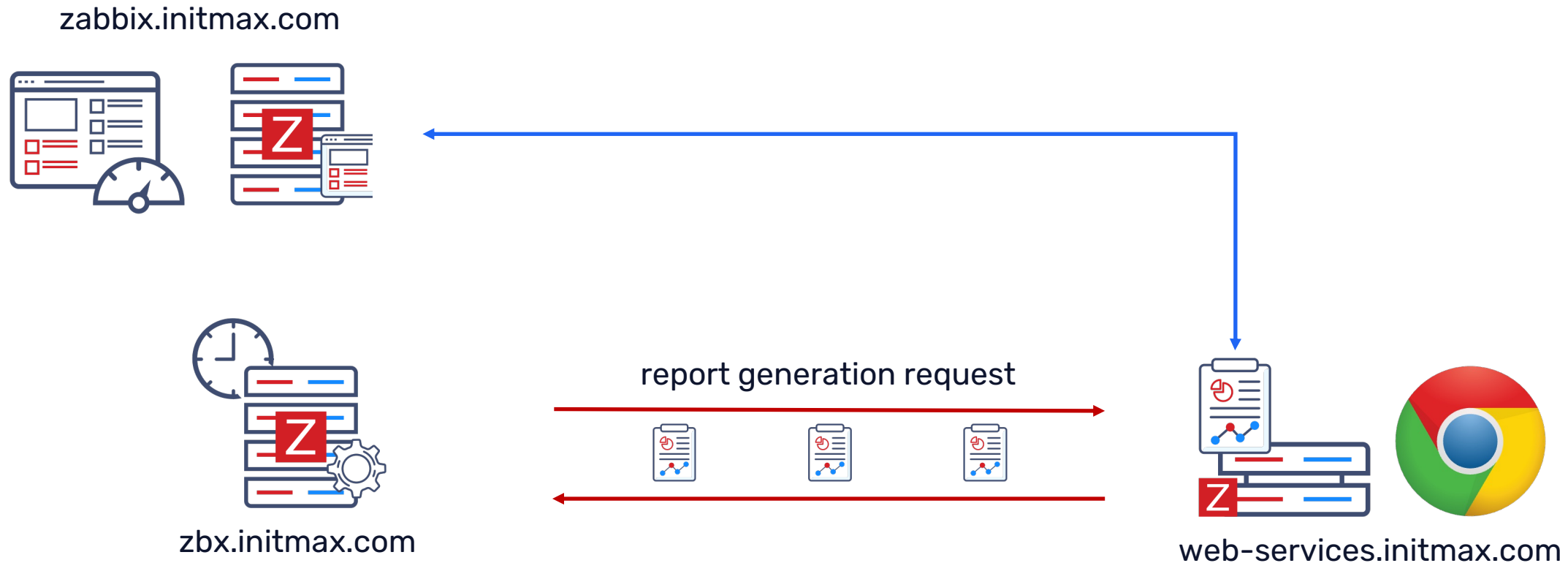
- ▶ Additional components are required

**Zabbix web service** (TCP 10053 by default)

**Google chrome** browser (You can also use Chromium, Firefox,...)

- ▶ Component Zabbix server and Zabbix web services can be installed separately
- ▶ Communications can be encrypted (Recommended)
- ▶ Zabbix web service is used only for loading and generating PDFs, for sending is used Zabbix server
- ▶ Information about where is your Zabbix frontend is hardcoded! (be careful with HA)

# Scheduled reports – Architecture



```
StartReportWriters=3  
WebServiceURL=http://web-services.initmax.com:10053/report
```

```
AllowedIP=zbx.initmax.com  
ListenPort=10053
```

# Scheduled reports – Installation

- ▶ First you need to install Zabbix web service from Zabbix repository

```
# dnf install -y zabbix-web-service
```

- ▶ Another step is installing Google chrome repository (Recommended browser)

```
# nano /etc/yum.repos.d/google-chrome.repo
```

```
[google-chrome]
name=google-chrome
baseurl=http://dl.google.com/linux/chrome/rpm/stable/$basearch
enabled=1
gpgcheck=1
gpgkey=https://dl-ssl.google.com/linux/linux_signing_key.pub
```

# Scheduled reports – Installation

- ▶ Last step is installing Google chrome from the repository

Don't worry you don't need to install the whole graphic environment

```
# dnf install -y google-chrome-stable
```

- ▶ If you have installed Zabbix server and Zabbix web services on same machine, you don't need any additional config setting in **Zabbix web services**, but you still need to change some config setting in Zabbix server config file.

# Scheduled reports – Installation

- ▶ Enable web service in Zabbix server config 1/2

```
# nano /etc/zabbix/zabbix_server.conf
```

```
### Option: StartReportWriters  
#       Number of pre-forked report writer instances.  
#  
# Mandatory: no  
# Range: 0-100  
# Default:  
# StartReportWriters=0
```

```
StartReportWriters=1
```

# Scheduled reports – Installation

- ▶ Set web service URL in Zabbix server config 2/2

```
# nano /etc/zabbix/zabbix_server.conf
```

```
### Option: WebServiceURL
#     URL to Zabbix web service, used to perform web related tasks.
#     Example: http://localhost:10053/report
#
# Mandatory: no
# Default:
# WebServiceURL=

WebServiceURL=http://localhost:10053/report
```



# Scheduled reports – Installation

- ▶ For **dedicated** Zabbix web service server, you need to change the default config

```
# nano /etc/zabbix/zabbix_web_service.conf
```

```
### Option: AllowedIP
#       List of comma delimited IP addresses, optionally in CIDR notation, or DNS names of Zabbix servers and
#       Zabbix proxies.
#       Example: AllowedIP=127.0.0.1,192.168.1.0/24,::1,2001:db8::/32,zabbix.example.com
#
# Mandatory: yes
# Default:
# AllowedIP=

AllowedIP=127.0.0.1,::1
```

# Scheduled reports – Installation

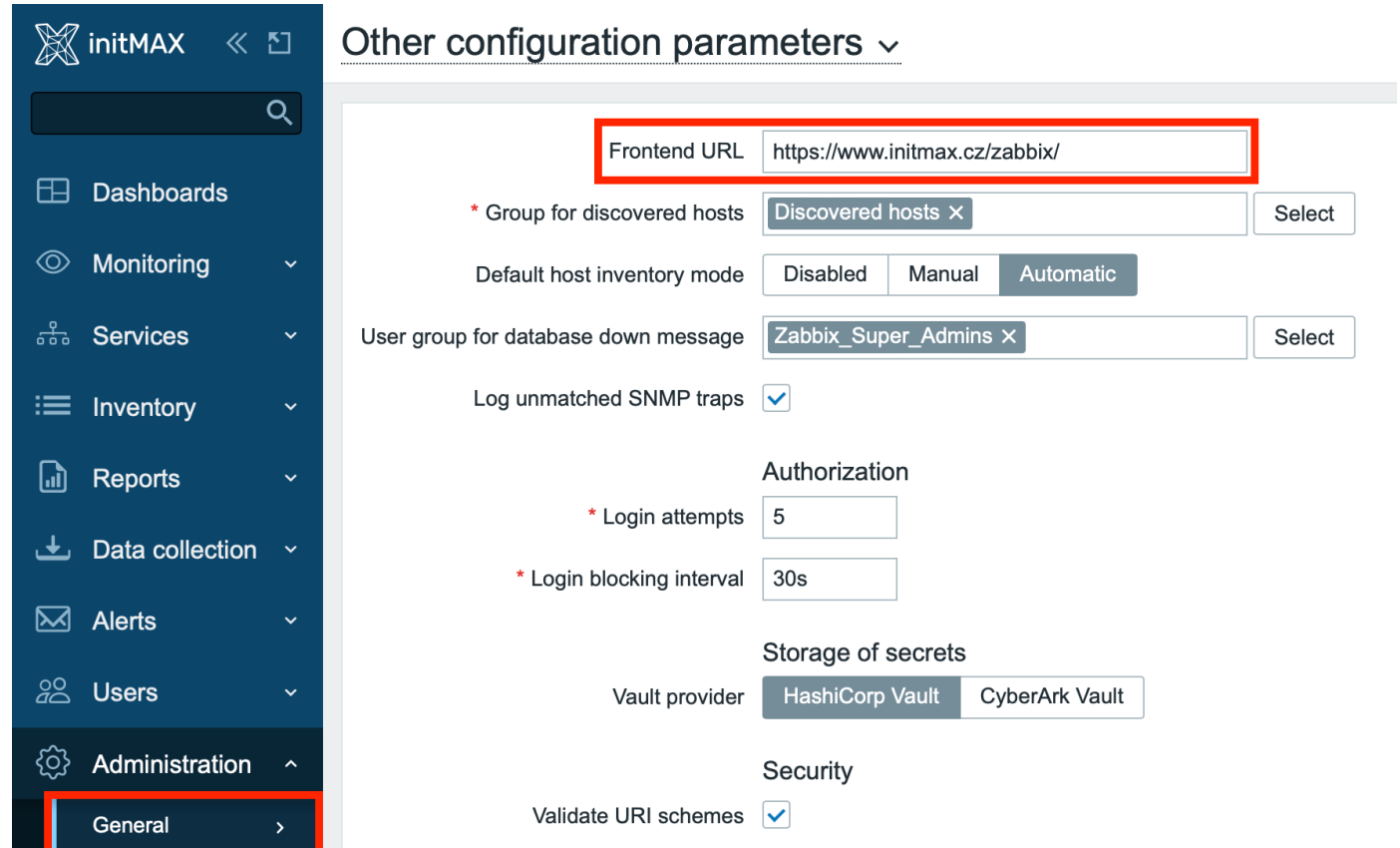
- ▶ Restart all services and allow to start Zabbix web service after restart

```
# systemctl restart zabbix-server.service
```

```
# systemctl enable zabbix-web-service.service --now
```

# Scheduled reports – Installation

- ▶ Last step of installation is to set up the correct URL for frontend in **Administration > Other** section (reachable Zabbix frontend URL for Zabbix web service server)



initMAX << >>

Other configuration parameters ▾

Frontend URL

\* Group for discovered hosts

Default host inventory mode

User group for database down message

Log unmatched SNMP traps

Authorization

\* Login attempts

\* Login blocking interval

Storage of secrets

Vault provider

Security

Validate URI schemes

# Scheduled reports – Frequent problems

- ▶ **Google chrome** is not installed on same machine where is **Zabbix web service**
- ▶ **Firewall** is blocking your connection from **Zabbix server** to port **10053** and from **Zabbix web service** to your **Zabbix fronted**
- ▶ **SELINUX** is blocking your app
- ▶ **No media is defined for user** (minimum is one email media)
- ▶ **Testing button** gives you an error message: **No media is defined for user – Not classified**
- ▶ **User permission** for dashboard or data
- ▶ **Widgets limitations** in `/usr/share/zabbix/include/defines.inc.php`

4

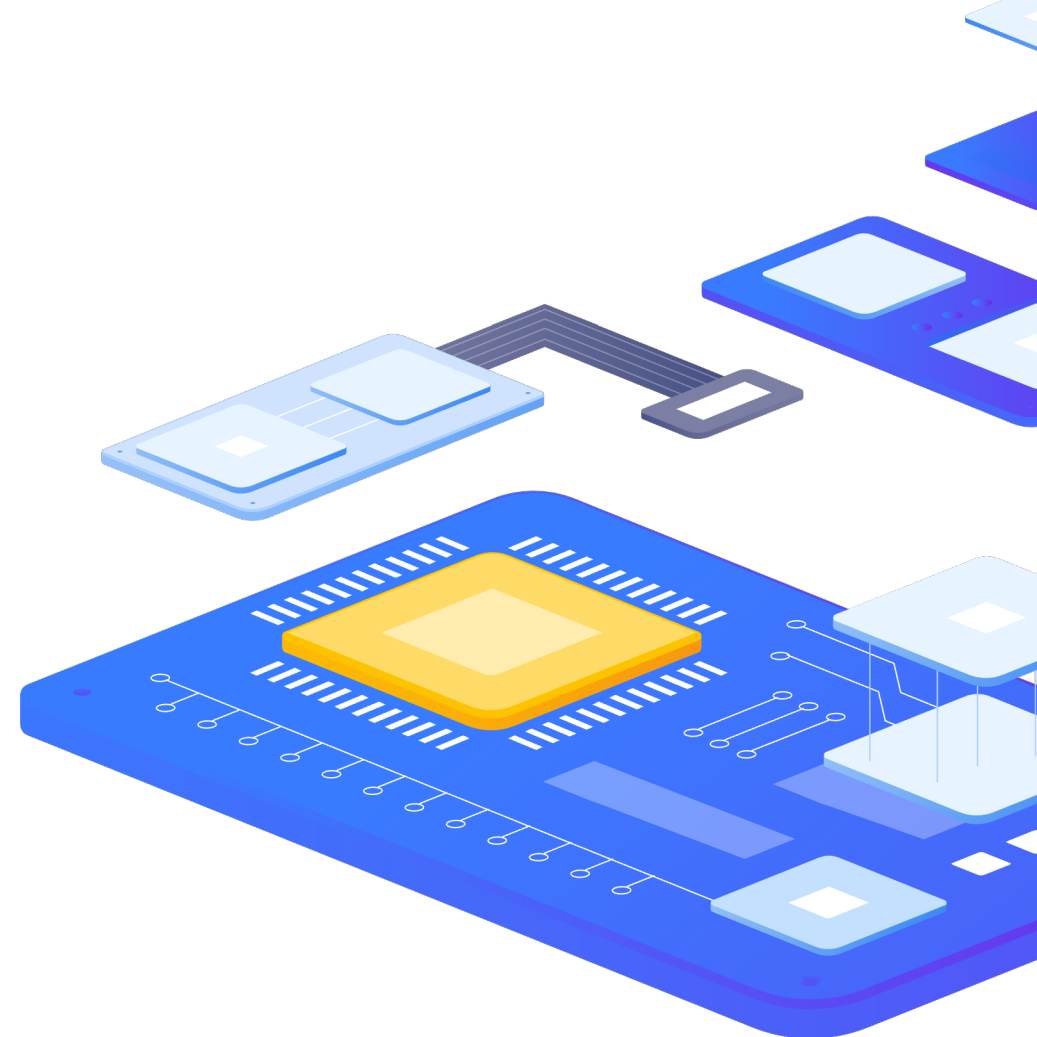
Dashboard



# Dashboards

Zabbix Dashboard is your central point of monitoring. You can have a wide variety of different dashboards for different user groups:

- ▶ A dashboard for your networking team
- ▶ An infrastructure overview dashboard based on your Zabbix maps
- ▶ A dashboard displaying live statistics of your business, e.g. website traffic
- ▶ And much, much more!




## Reporting in Zabbix

# Widgets

- › Action log
- › **Clock (Updated 6.2)**
- › Data overview
- › Discovery status
- › Favorite graphs
- › Favorite maps
- › **Gauge (Zabbix 7.0)**
- › **Geomap (Zabbix 6.0)**
- › **Graph (Updated 6.2)**
- › Graph (classic)
- › Graph prototype
- › Host availability
- › **Item value (Zabbix 6.0+ updated 6.4)**
- › Map
- › Map navigation tree
- › Map
- › Map navigation tree
- › **Pie chart (Zabbix 7.0)**
- › Plain text
- › Problem hosts
- › Problems
- › Problems by severity
- › SLA report
- › System information
- › **Top hosts (Zabbix 6.0)**
- › **Top triggers (Zabbix 7.0)**
- › Trigger overview
- › URL
- › Web monitoring
- › **Deprecated widgets: Data overview**
- › **Honeycomb (Zabbix 7.0)**
- › **Host Navigator (Zabbix 7.0)**

## Dashboard with time selector


initMAX

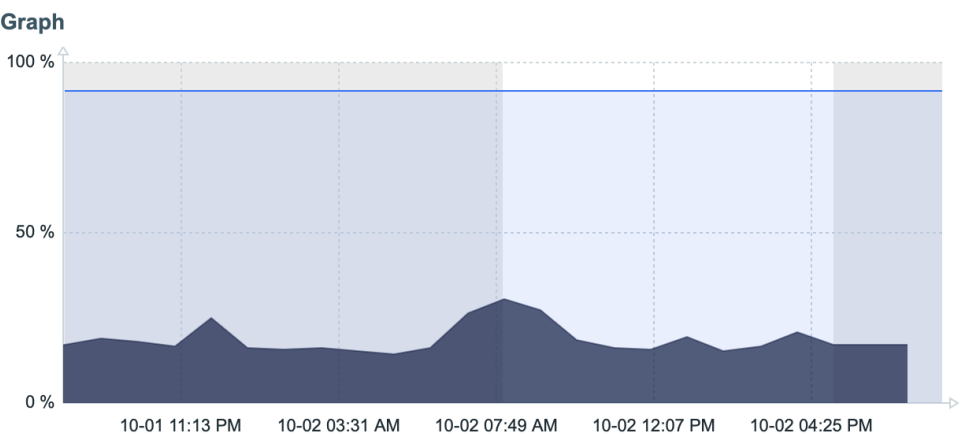
Reporting daily

[Edit dashboard](#)

All dashboards / Reporting daily

[Zoom out](#)
🕒 Last 1 day

### Graph

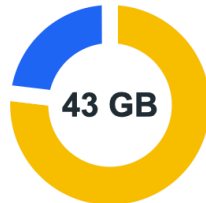


	min	avg	max
DEMO-SERVER: CPU utilization	14.5721 %	18.7538 %	30.5956 %
DEMO-SERVER: /: Free inodes in %	91.7874 %	91.7876 %	91.7878 %

### Top triggers

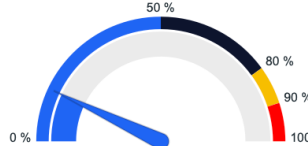
Host	Trigger	Severity	Number of problems
DEMO-SERVER	last(/server/system.cpu.load) > 5	Not classified	24
DEMO-SERVER	Nothing to show	Disaster	5
DEMO-SERVER	last(/server/system.cpu.load) > 5	Warning	3
DEMO-SERVER	last(/server/system.cpu.load) > 10	Average	1

#### Disk space



43 GB

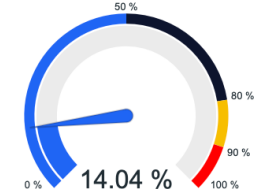
#### DEMO-SERVER: CPU utilization



14.04 %

CPU utilization

#### DEMO-SERVER: CPU utilization



14.04 %

CPU utilization

#### Zabbix Version

2023-10-02 07:33:10 PM

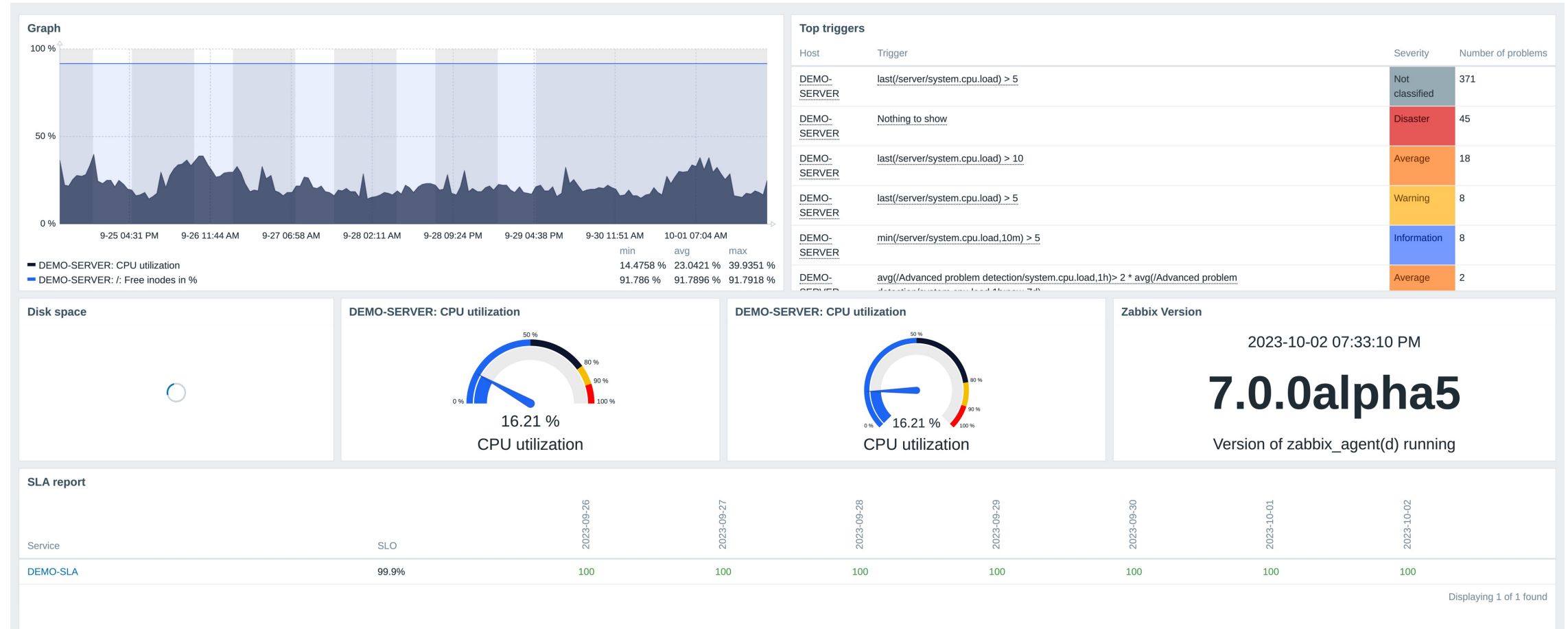
# 7.0.0alpha5

Version of zabbix\_agent(d) running



## Reporting in Zabbix

# PDF report from dashboard



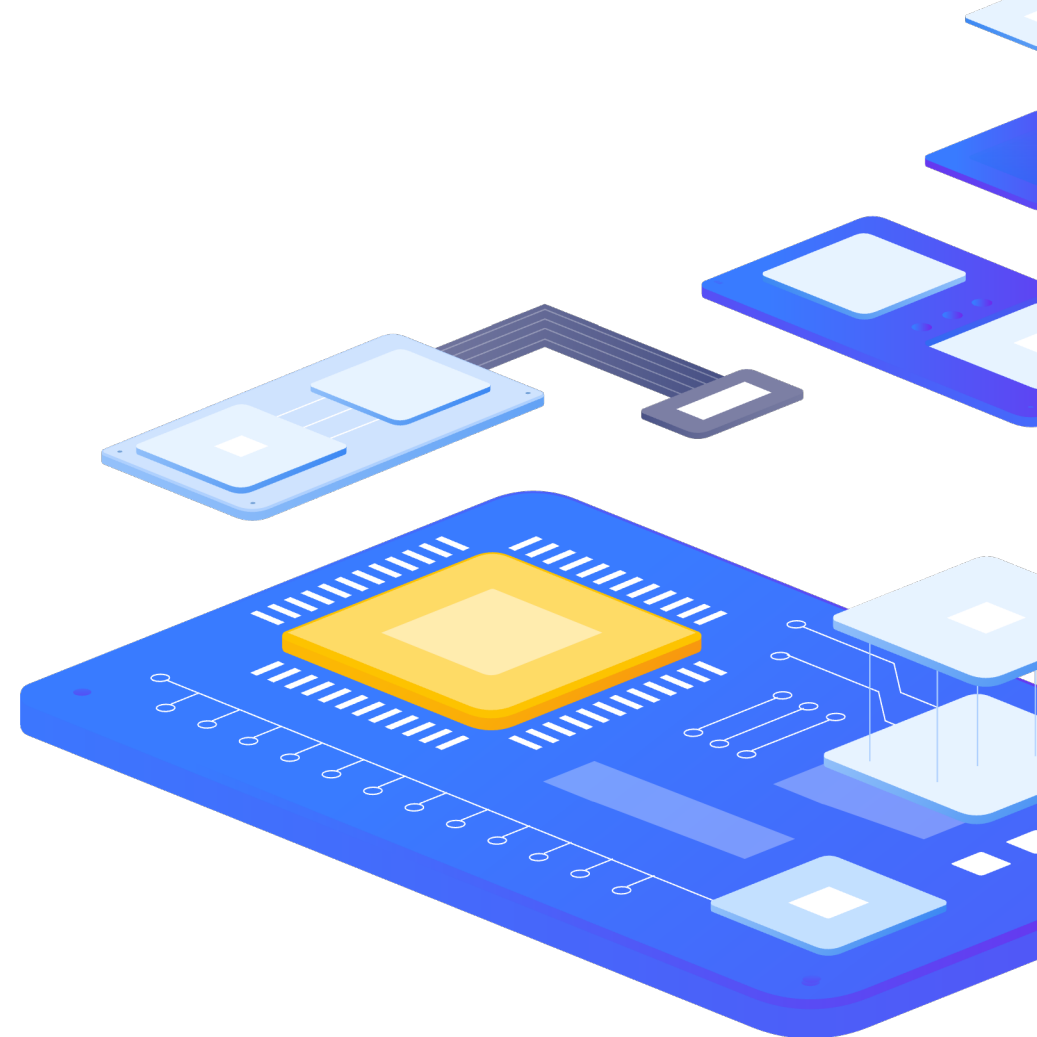
5

Third party solutions



# Third party solutions

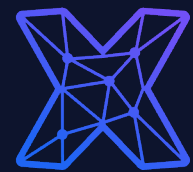
- ▶ Grafana  
<https://grafana.com/docs/grafana/latest/dashboards/create-reports/>
- ▶ SQL (used for calculation SLA and price)
- ▶ PowerBI (SLA, price, top problems, correlations,...)
- ▶ Custom PHP (PDF Reports – not supported)  
<https://www.zabbix.com/forum/zabbix-cookbook/25368-zabbix-dynamic-pdf-report-generation>
- ▶ Other solutions on GitHub  
<https://github.com/jieshiu/ZabbixReport>  
<https://github.com/gabrieldss808/Zabbix-Pdf-Screen-Report>



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Demo





initMAX

Questions?



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