

ZABBIX

6.4

ZABBIX 6.4 - OVERVIEW OF THE LATEST UI/UX IMPROVEMENTS

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ZABBIX



IMPROVING UI/UX

Improving the User interface and overall user experience is just as important as adding new functionality:

- ✓ If you work on Zabbix for multiple hours per week, the experience while doing so should be enjoyable
- ✓ The UI should be intuitive and «make sense»
- ✓ Need to find a balance between user-friendly and fully functional

IMPROVING UI/UX

UI/UX related decisions can also cause confusion regarding the underlying logic of the product:

* Name

Ping check

Type

Simple check

▼

* Key

icmpping

Select

Type of information

Numeric (unsigned)

▼

* Host interface

192.168.50.70:10050

▼

User name

Agent

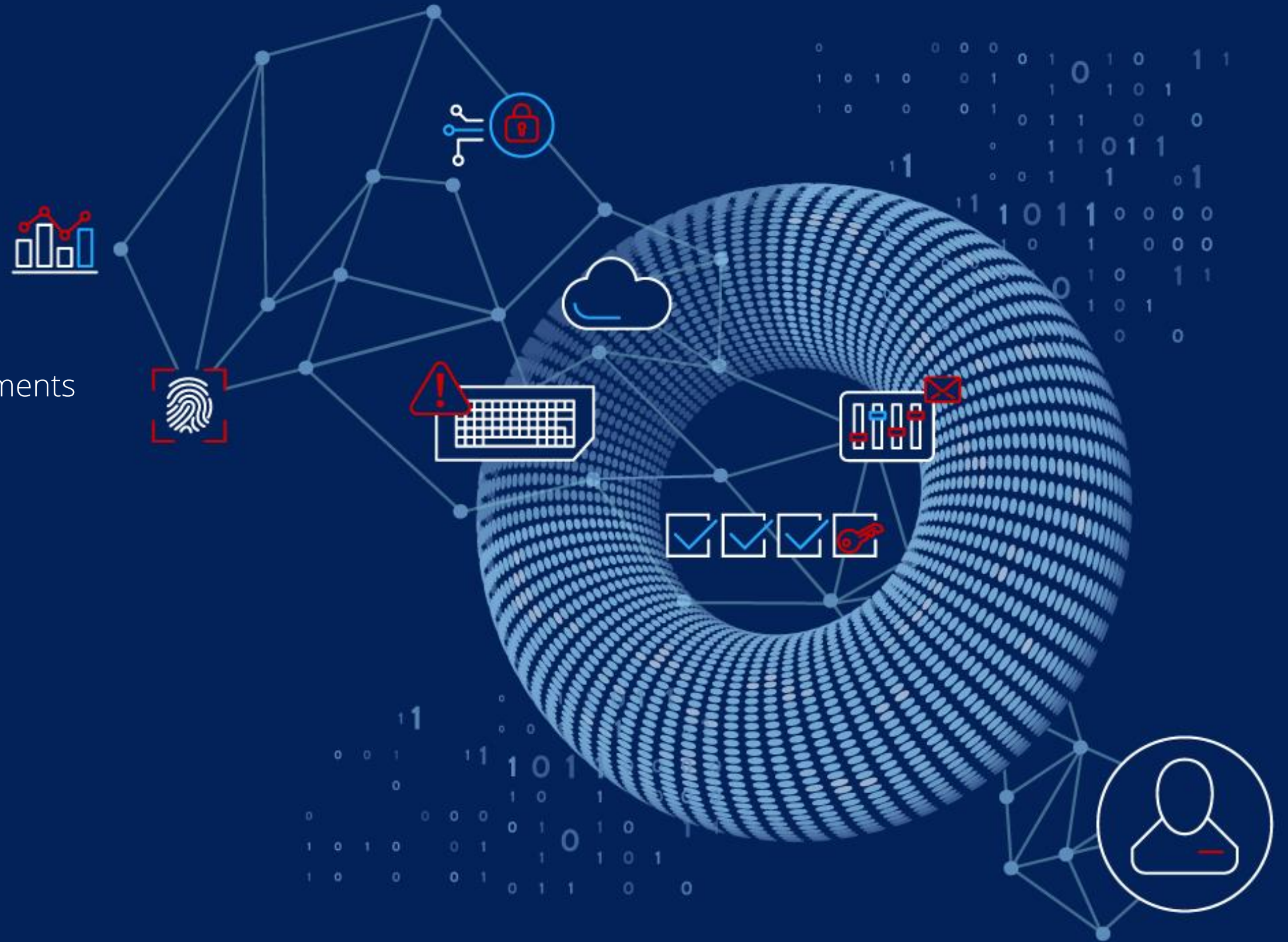
192.168.50.70:10050

Password

Simple check but with an Agent interface...?

Zabbix 6.4 - Overview of the latest UI/UX improvements

NEW MENU STRUCTURE



NEW MENU STRUCTURE

ZABBIX
<< <
VMware Hypervisors
? Host Select Edit dashboard ☰ ⌵

[All dashboards / VMware Hypervisors](#)

Dashboards

Monitoring ▾

Services ▾

Inventory ▾

Reports ▾

Data collection ▾

Alerts ▾

Users ▾

Administration ▾

Support

Integrations

Help

User settings ▾

Sign out

Page 1 ... page2 page3 Stop slideshow
Zoom out Last 1 hour ⌚

ESX7-03 Status

2023-02-22 17:59:39

3.29 % ↓

VMware: CPU usage in percents

ESX7-03 Status

2023-02-22 18:00:07

yellow (2)

VMware: Overall status

ESX7-02 Status

2023-02-22 18:00:31

90.13 % ↓

VMware: CPU usage in percents

ESX7-02 Status

2023-02-22 17:59:59

yellow (2)

VMware: Overall status

Top Hypervisors by CPU usage

Hypervisor Name	CPU usage
esx7-03-host.zabbix.sandbox	<div style="width: 3.29%;"></div> 3.29 %
esx7-02-host.zabbix.sandbox	<div style="width: 90.13%;"></div> 90.13 %

esx7-02 HV traffic

esx7-03 HV traffic

Hypervisor CPU usage (MHz)

Top Hypervisors by Used memory

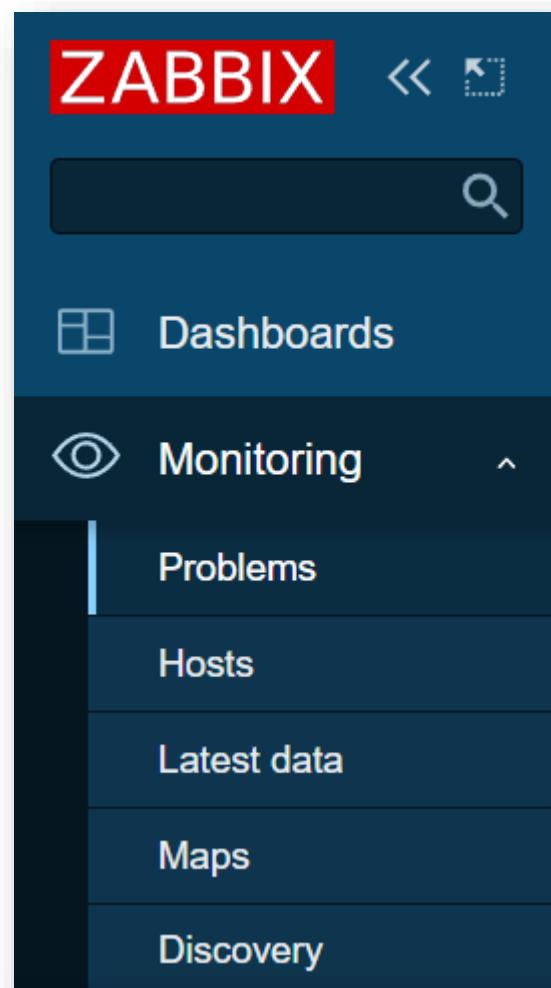
Hypervisor Name	Used Memory	Hypervisor Ping
esx7-03-host.zabbix.sandbox	<div style="width: 14.93%;"></div> 14.93 GB	Up (1)
esx7-02-host.zabbix.sandbox	<div style="width: 9.50%;"></div> 9.50 GB	Up (1)

NEW MENU STRUCTURE

The goal of the new menu layout is to provide logical and consistent access to main Zabbix features:

- ✓ The 1st level sections now focus on use cases
- ✓ 2nd level section remain as they were in previous versions
- ✓ *Configuration* section has been split into *Data collection* and *Alerts* sections
- ✓ *Media types* and *Scripts* have been moved under the *Alerts* section
- ✓ User and authentication configuration is now done in the *Users* section
- ✓ Other minor changes

NEW MENU STRUCTURE

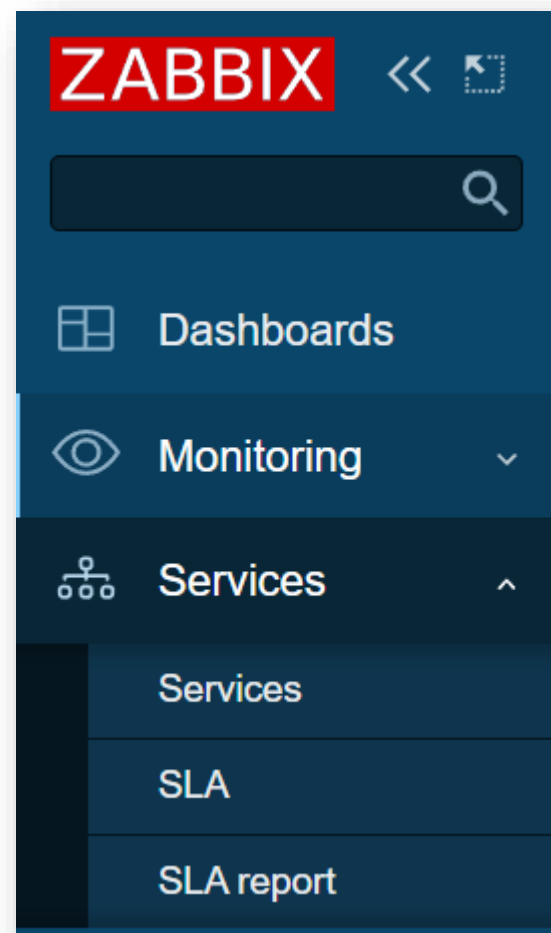


Dashboards has been moved to the 1st menu level

- ✓ Quicker access to the most vital information
- ✓ Easier to find for new Zabbix users

Other 2nd level monitoring sections remain as they were in previous versions

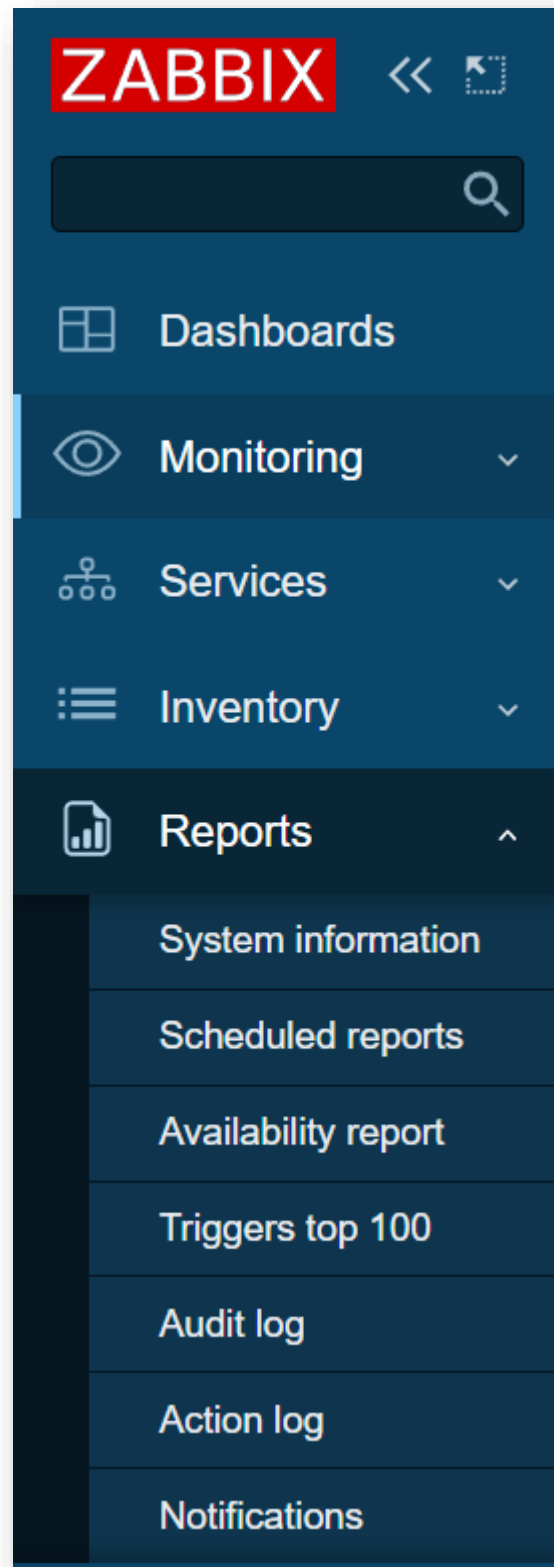
NEW MENU STRUCTURE



Services section contains information related to business service monitoring

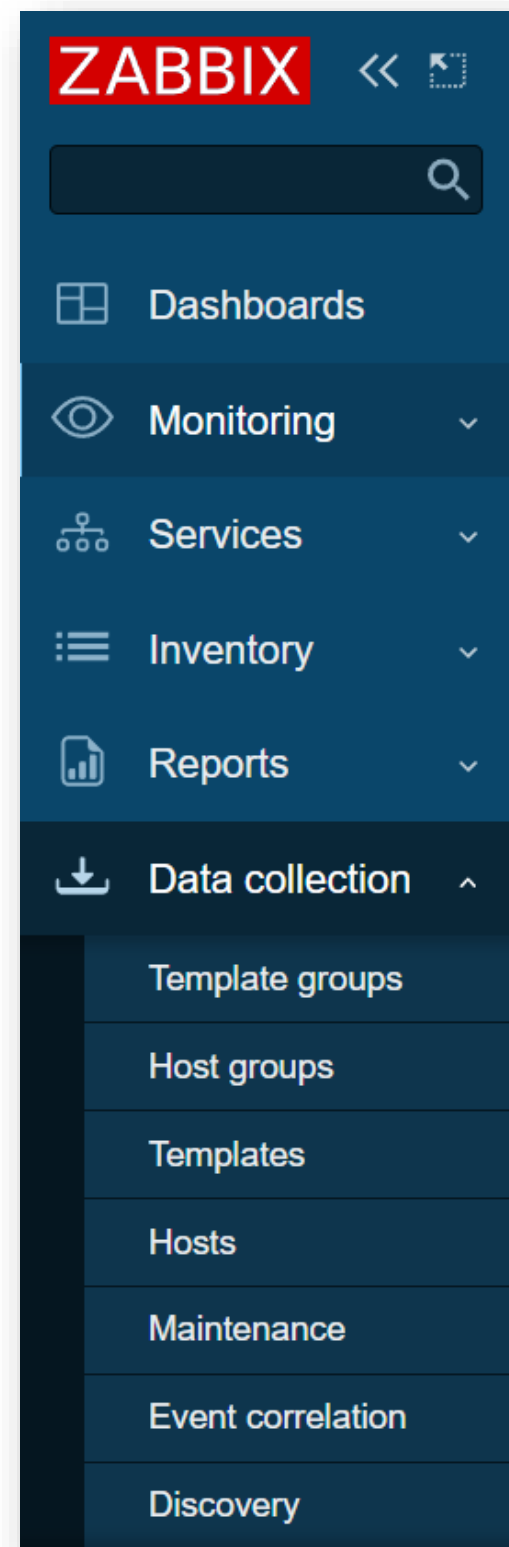
- ✓ The Service actions section has been moved to Alerts section
- ✓ More consistent this way – all of the alerting functionality is moved to a single location

NEW MENU STRUCTURE



- Inventory and Reports sections remain as they were
- ✓ The underlying 2nd level sections already seem consistent and distributed in a logical way
 - ✓ Inventory – everything related to inventory data collection and overview
 - ✓ Reports – multiple kinds of reports available in Zabbix

NEW MENU STRUCTURE

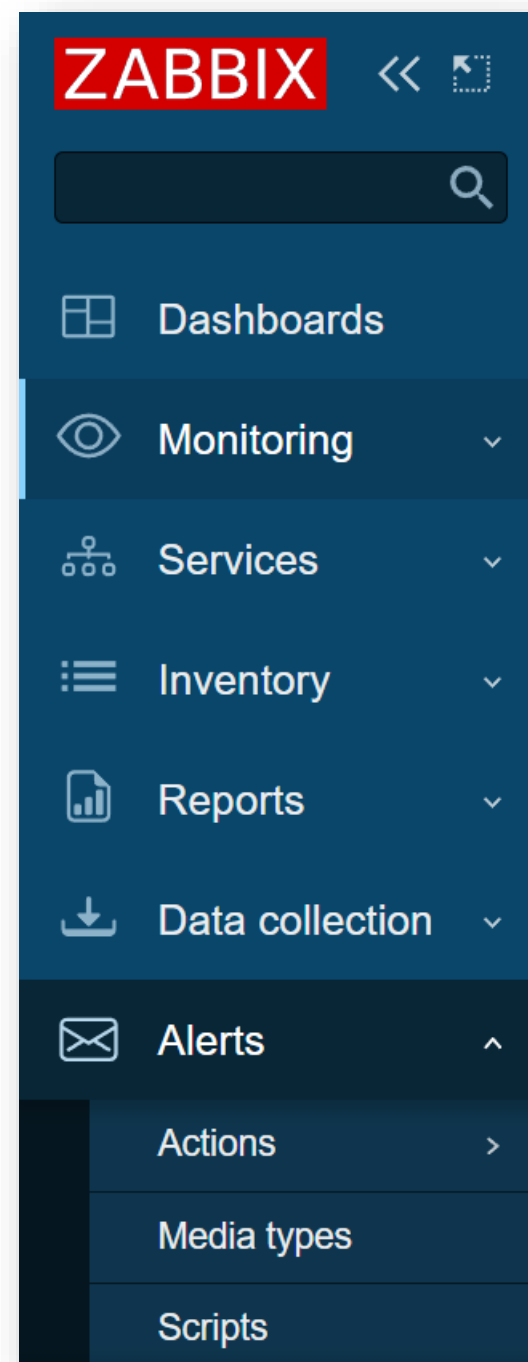


Data collection unifies everything related to configuring data collection and the monitoring endpoint creation logic:

- ✓ Template/Host creation, grouping and discovery
- ✓ Event correlation
- ✓ Maintenance (remember, it's related to data collection and analysis)
- ✓ Host discovery

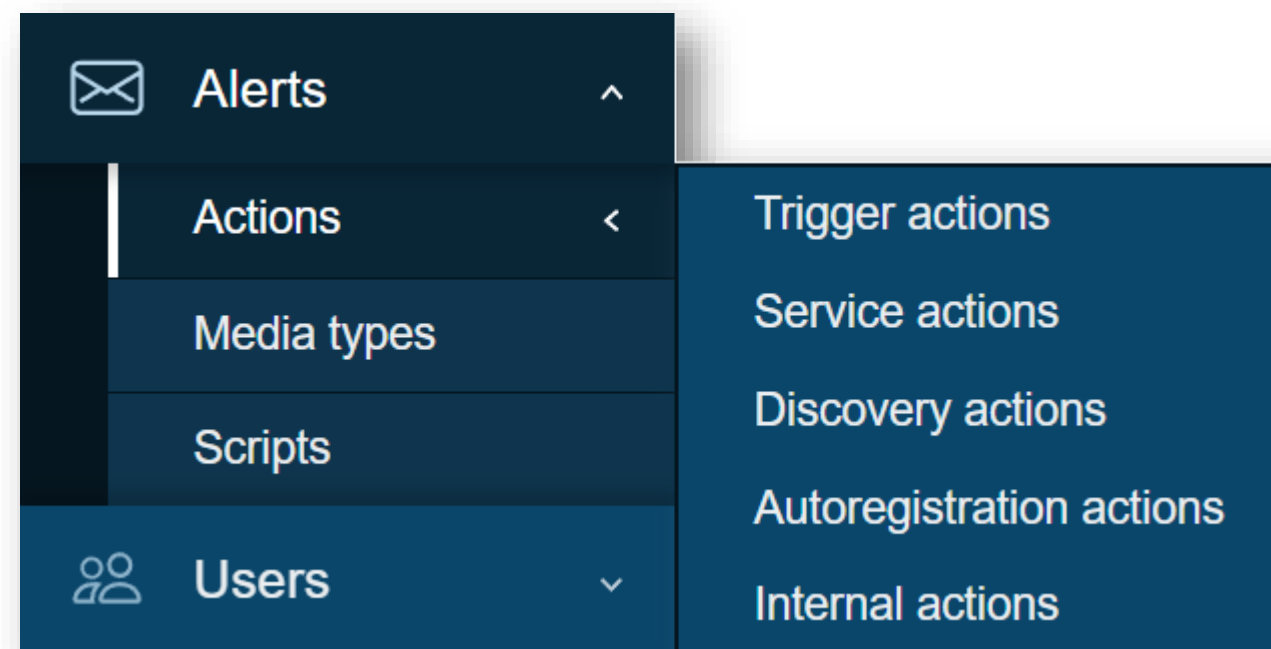
In essence, it's very similar to the old Configuration section, with the exception of Actions being moved away.

NEW MENU STRUCTURE

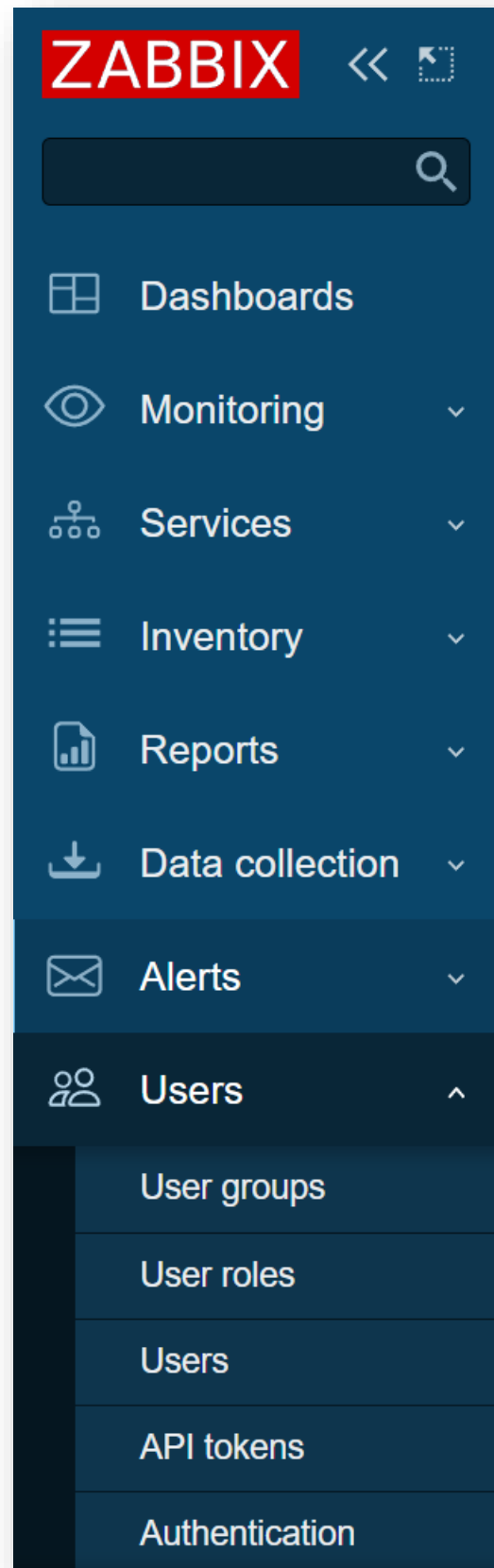


All the functionality related to alerting has been moved to Alerts section

- ✓ Actions of all types can be defined here
- ✓ Media types are accessed from the Alerts section
- ✓ Action operation, host action and event action scripts can be defined in the Scripts section



NEW MENU STRUCTURE



Settings related to authentication, user propagation, grouping, roles and API token creation have been moved to the Users section

- ✓ Previously located under Administration, which already contain many other unrelated sections
- ✓ API tokens is now a 2nd level section – a lot easier to find

NEW MENU STRUCTURE - ROLES

The changes in the menu structure also affect the Access to UI elements permissions for user roles:

ZABBIX

Dashboards

Monitoring

Services

Inventory

Reports

Data collection

Alerts

Users

User groups

User roles

Users

API tokens

Authentication

Administration

Support

NameNOC Team

User typeUser

Access to UI elements

Dashboards

Monitoring

Services

Inventory

Reports

Data collection

Alerts

Users

Administration

Problems

Hosts

Services

Overview

System information

Scheduled reports

Availability report

Template groups

Host groups

Templates

Trigger actions

Service actions

Discovery actions

User groups

User roles

General

Audit log

Latest data

Maps

SLA

Hosts

Triggers top 100

Audit log

Action log

Hosts

Maintenance

Event correlation

Autoregistration actions

Internal actions

Media types

Users

API tokens

Housekeeping

Proxies

Discovery

SLA report

Notifications

Discovery

Scripts

Authentication

Macros

Queue

At least one UI element must be checked.

ZABBIX

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Zabbix 6.4 - Overview of the latest UI/UX improvements

COMPLETE VIEW OF ZABBIX PROXIES FROM ZABBIX FRONTEND



SUPPORT OF DATA COLLECTION FOR OUTDATED PROXIES

Information about the proxy versions and their status is now displayed under *Administration – Proxies*:

- ✓ Clicking on the warning symbol will display information about the proxy compatibility

Proxies

Name

Mode

AnyActivePassive

Version

AnyCurrentOutdated

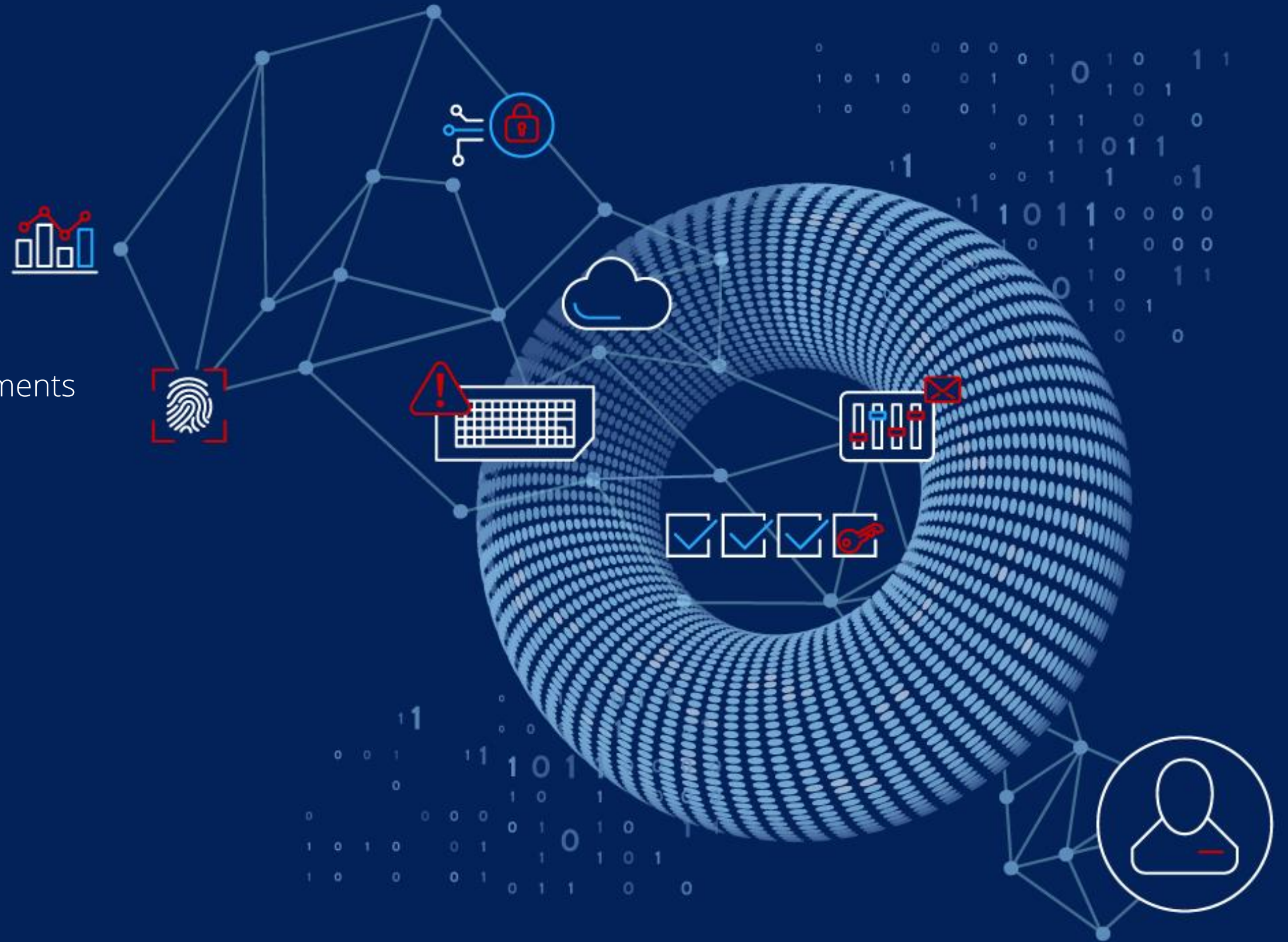
Apply

Reset

<input type="checkbox"/> Name ▲	Mode	Encryption	Version	Last seen (age)	Host count	Item count	Required vps
<input type="checkbox"/> Los Angeles proxy	Active	None	6.0.2 ⓘ	1s	115	1412	109.6
<input type="checkbox"/> QA environment proxy	Active	None	5.0.30 ⓘ	2s	0	0	0
<input type="checkbox"/> Riga proxy	Active	None	6.4.0	2s	201	1975	161.1

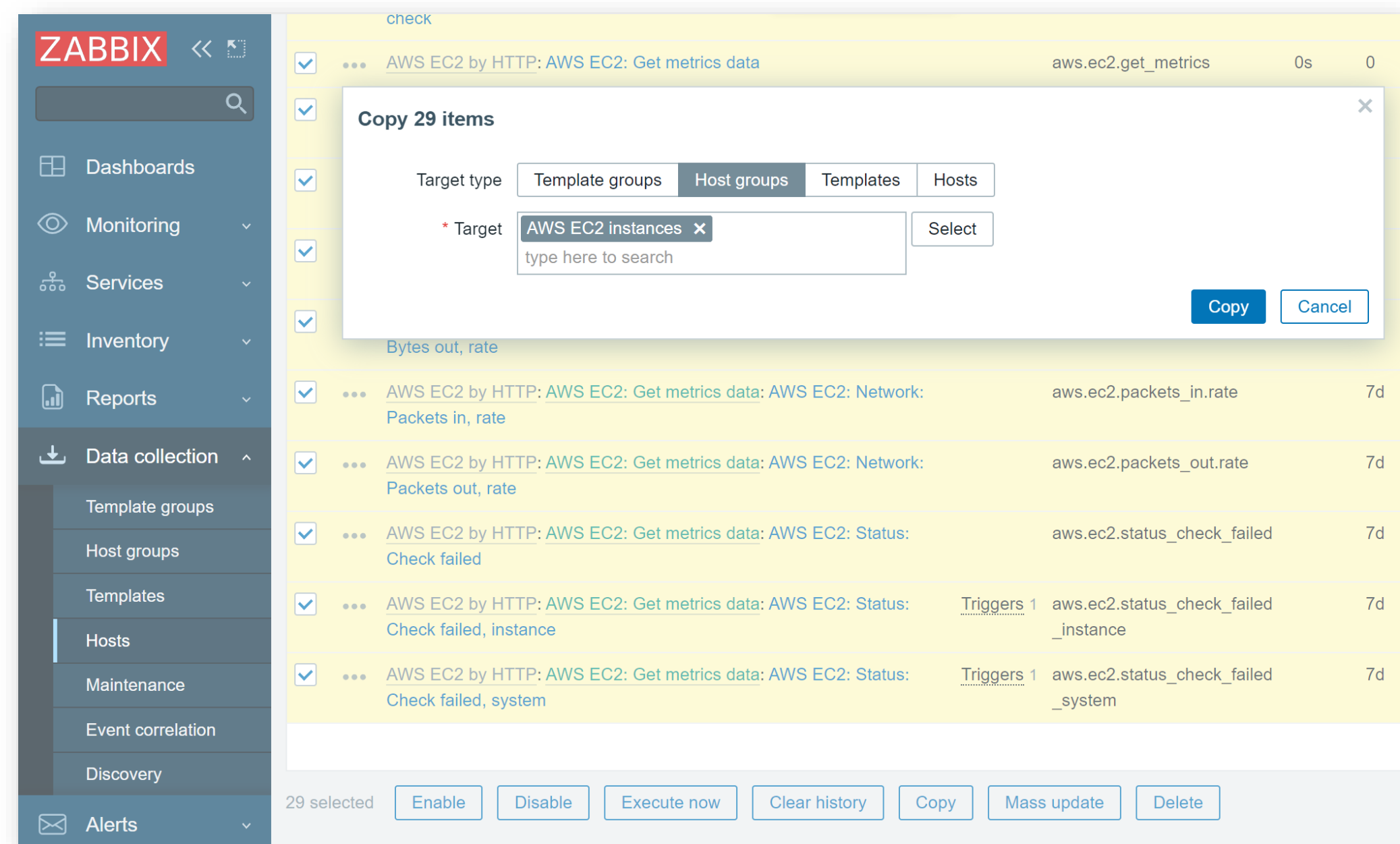
Zabbix 6.4 - Overview of the latest UI/UX improvements

MODAL FORMS



MODAL FORMS

Modal windows have been introduced for action and maintenance creation, as well as copy functionality with the goal of improving the overall Zabbix look and feel:



MODAL FORMS

With modal forms, the user is always reminded on where they are located in the Zabbix frontend – a small change, that greatly improves the overall feel.

The screenshot displays the Zabbix web interface. On the left is a sidebar menu with the ZABBIX logo and navigation links: Dashboards, Monitoring, Services, Inventory, Reports, Data collection, Alerts, Actions, Media types, Scripts, Users, and Administration. The main content area is titled 'Trigger actions'. A modal window titled 'New action' is open, showing the 'Operations' tab. The form includes a 'Name' field with the value 'CPU load alert', a 'Type of calculation' dropdown set to 'And/Or', and a table of conditions. The table has columns for 'Label', 'Name', and 'Action'. It contains two conditions: 'A' with 'Trigger name contains CPU' and 'B' with 'Tag name equals Production'. Each condition has a 'Remove' link. An 'Add' link is at the bottom of the table. The 'Enabled' checkbox is checked. A note at the bottom states '* At least one operation must exist.' The modal has 'Add' and 'Cancel' buttons at the bottom right.

ZABBIX << Trigger actions ▾

New action ? x

Action Operations

* Name CPU load alert

Type of calculation And/Or ▾ A and B

Conditions	Label	Name	Action
A		Trigger name contains CPU	Remove
B		Tag name equals Production	Remove
Add			

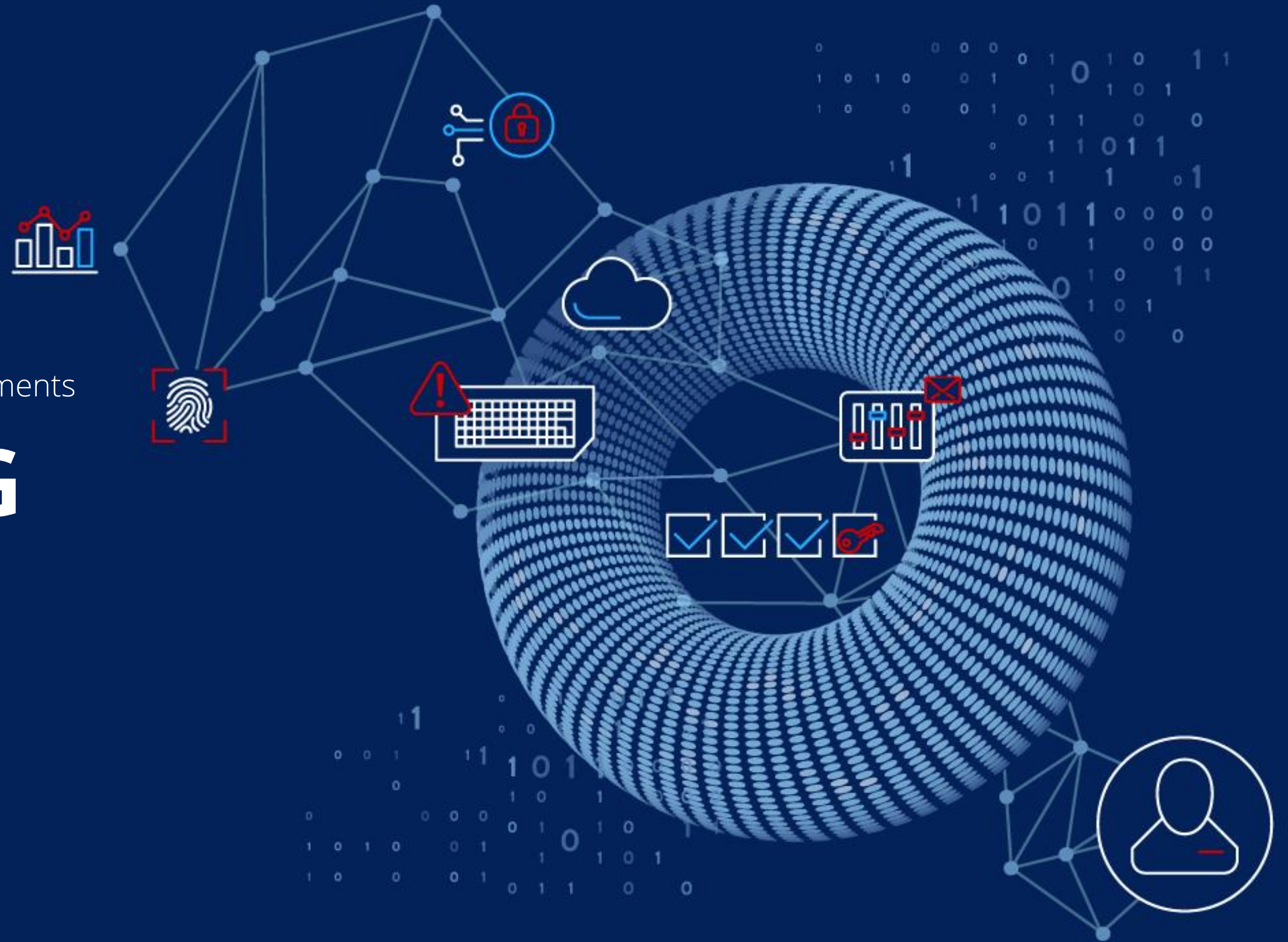
Enabled ☒

* At least one operation must exist.

[Add](#) [Cancel](#)

Zabbix 6.4 - Overview of the latest UI/UX improvements

NEW FILTERING OPTIONS



DATA COLLECTION - HOSTS

Ability to filter hosts by their status (Any/Enabled/Disabled):

Hosts

Host groups

type here to search

Select

Templates

type here to search

Select

Name

aws

DNS

IP

Port

Status

Any

Enabled

Disabled

Monitored by

Any

Server

Proxy

Proxy

Tags

And/Or

Or

tag

Contains

Add

Apply

Reset

<input type="checkbox"/>	Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates
<input type="checkbox"/>	AWS-S3-DEV	Items 31	Triggers 11	Graphs 4	Discovery 2	Web	8.8.8.8:10050		AWS Demo , AWS EC2 by HTTP
<input type="checkbox"/>	AWS-S3-PROD-BUCKET-1	Items 31	Triggers 11	Graphs 4	Discovery 2	Web	127.0.0.1:10050		AWS Demo , AWS EC2 by HTTP
<input type="checkbox"/>	AWS-S3-PROD-BUCKET-2	Items 31	Triggers 11	Graphs 4	Discovery 2	Web	62.63.137.113:10050		AWS Demo , AWS EC2 by HTTP

REPORTS – ACTION LOG

Multiple new ways to filter actions:

- ✓ Filter by recipients, actions or select specific media types
- ✓ Select the action operation status
- ✓ Search by a string in the action operation

REPORTS – ACTION LOG

Action log

[Export to CSV](#)[Zoom out](#)[Last 1 hour](#)[Filter](#)

Recipients

John (Doe) x

[Select](#)

Status



In progress



Sent/Executed



Failed

Search string

AWS

Actions

NOC team alerts x

[Select](#)

Media types

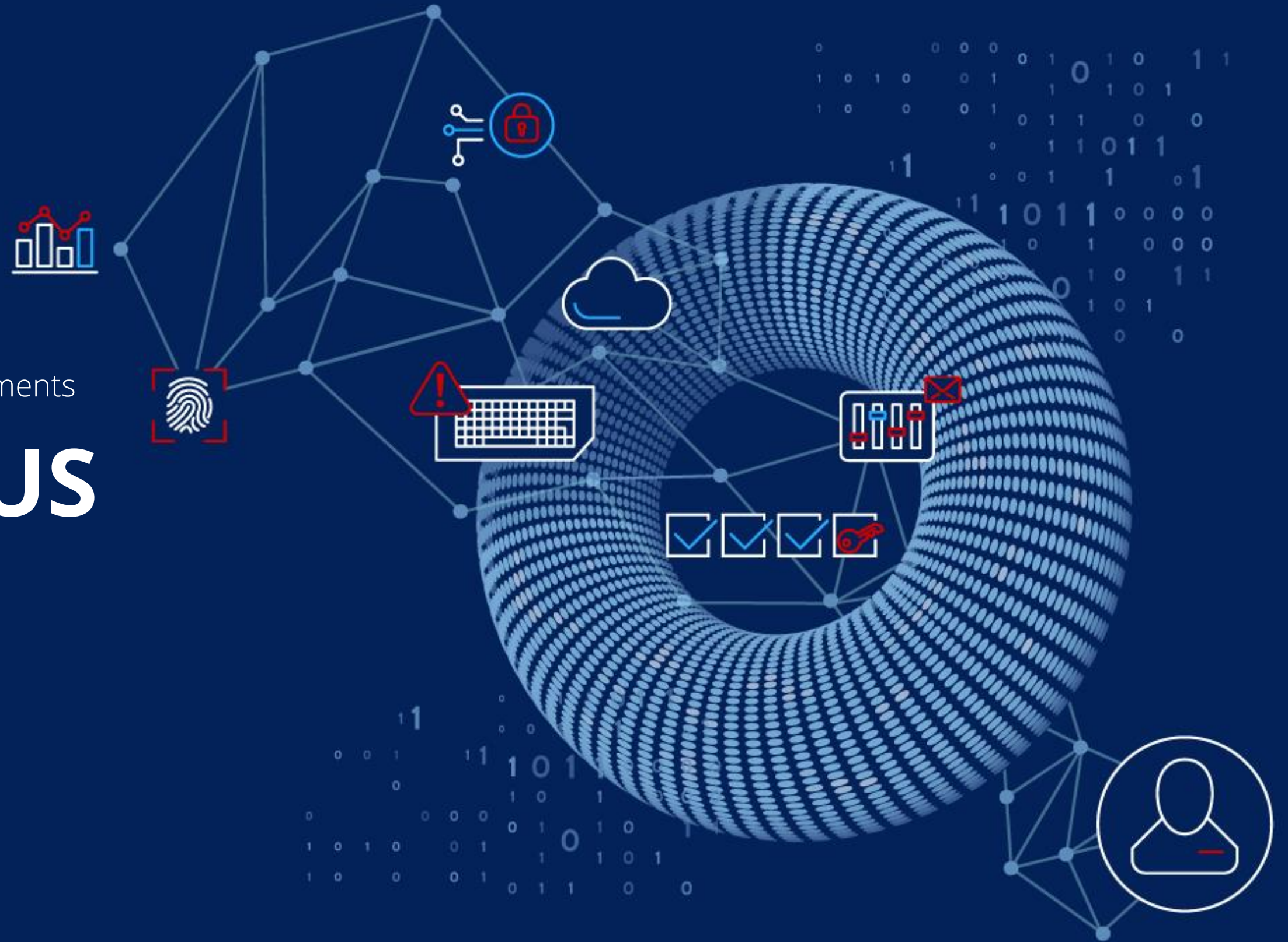
Gmail x

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

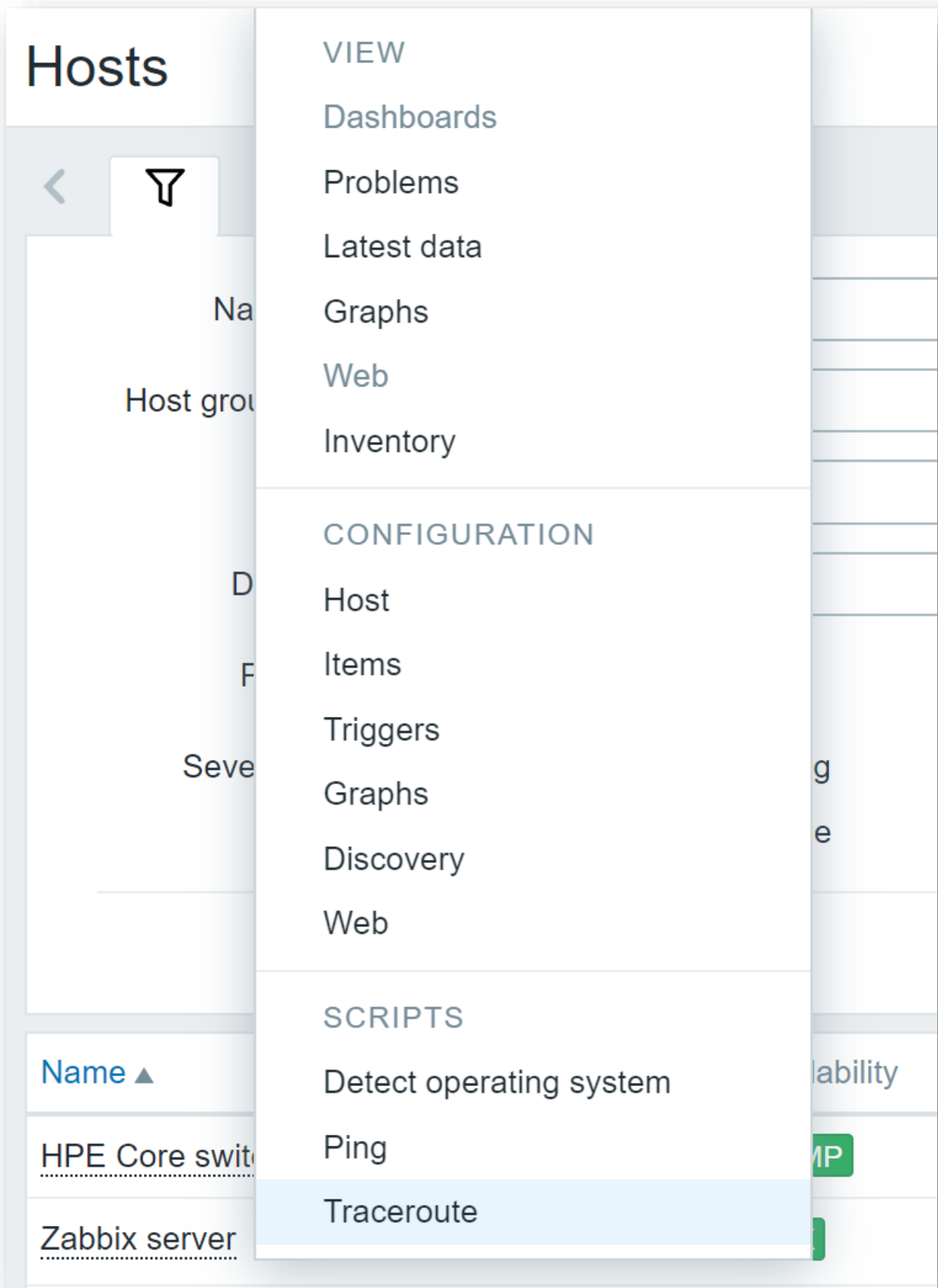
Time	Action	Media type	Recipient	Message	Status	Info
2023-04-06 10:16:38	NOC team alerts	Gmail	John (Doe) artursl1991@gmail.com	Subject: Problem: AWS-S3-PROD-BUCKET-1 S3 bucket has Too many objects Message: Problem started at 06:16:35 on 2023.04.06 Problem name: AWS-S3-PROD-BUCKET-1 S3 bucket has Too many objects Host:AWS-S3-PROD-BUCKET-1 Severity:Average Operational data:55 Original problem ID: 404	Sent	
2023-04-06 10:16:35	NOC team alerts	Gmail	John (Doe) artursl1991@gmail.com	Subject: Resolved in 33s: AWS-S3-PROD-BUCKET-1 S3 bucket has Too many objects Message: Problem has been resolved at 06:16:33 on 2023.04.06 Problem name: AWS-S3-PROD-BUCKET-1 S3 bucket has Too many objects Problem duration: 33s Host: AWS-S3-PROD-BUCKET-1 Severity: Average Original problem ID 402	Sent	

Zabbix 6.4 - Overview of the latest UI/UX improvements

CONTEXT MENUS



HOST CONTEXT MENU



Host configuration



List items, triggers, graphs, discovery rules and web scenarios

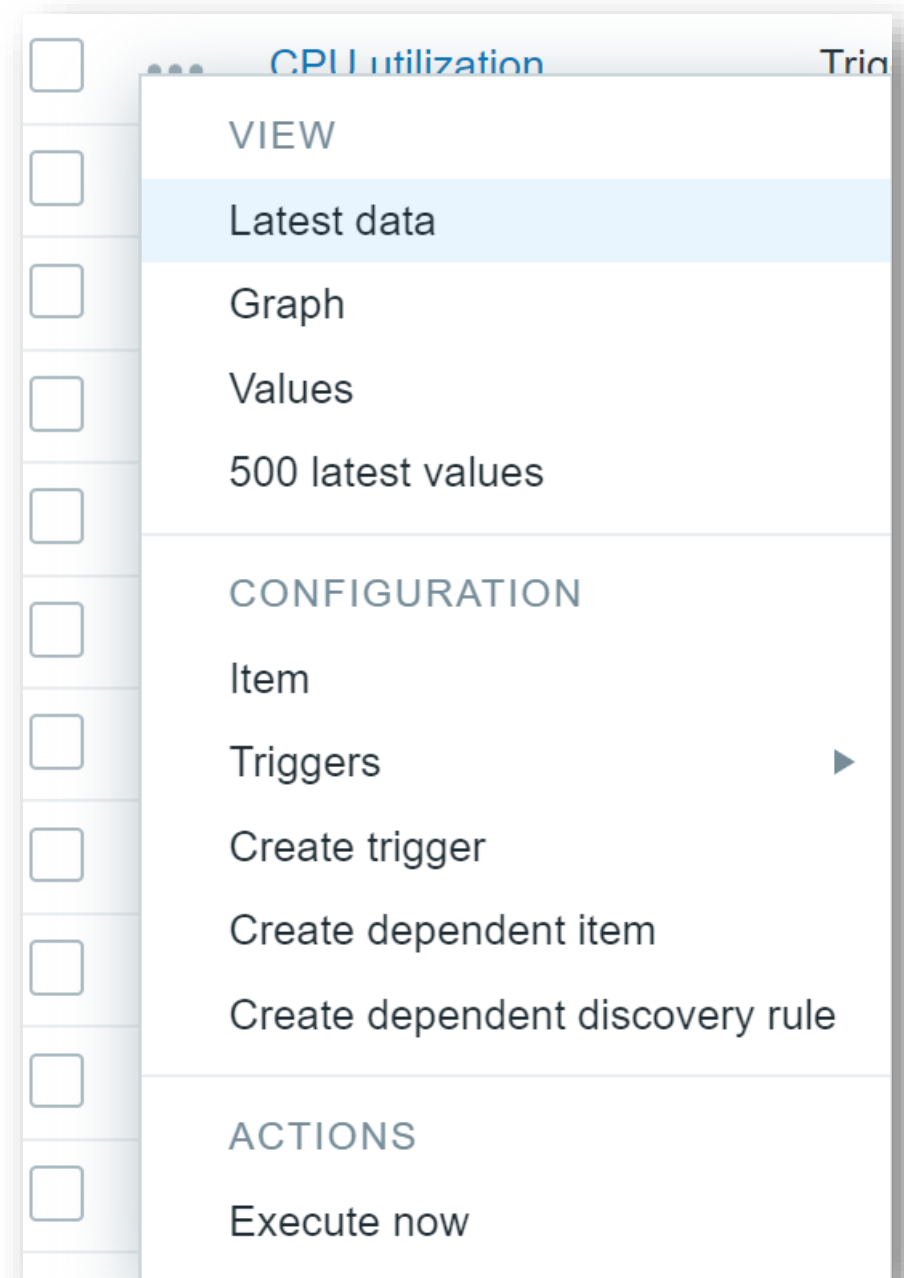


View Dashboards, Problems, Latest data, Graphs,Data from web scenarios, Inventory



Execute manual host actions

ITEM CONTEXT MENU



- ✓ Item configuration
- ✓ Filter and open Latest data
- ✓ Show item value graph, show values, display 500 latest values
- ✓ Open the related trigger configuration
- ✓ Create a trigger, dependent item, dependent discovery rule
- ✓ Execute now

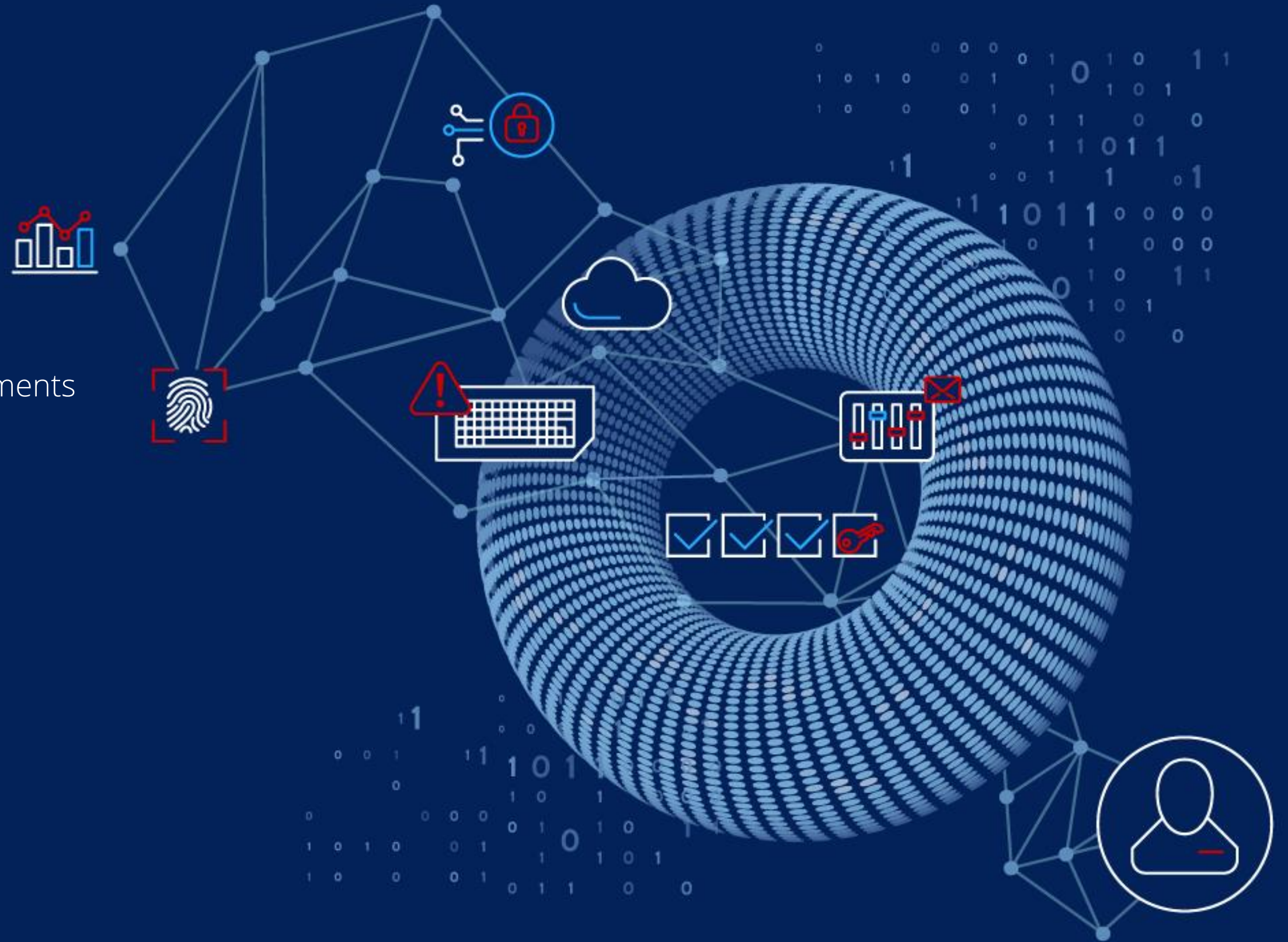
EVENT CONTEXT MENU

- ✓ Filter by problem and view related item history
- ✓ See items used by the trigger
- ✓ Open the trigger configuration
- ✓ Mark problem as symptom or cause

<input checked="" type="checkbox"/>	2023-01-24 15:24:11	Average	PROBLEM	AWS-S3-PROD-BUCKET-1	AWS-S3-PROD-BUCKET-1	VIEW
						Problems
						History
<input checked="" type="checkbox"/>	2022-11-03 09:15:00	Warning	PROBLEM	AWS-S3-PROD-BUCKET-2	AWS-S3-PROD-BUCKET-2	CONFIGURATION
<input type="checkbox"/>	2022-11-03 09:15:00	Warning	PROBLEM	AWS-S3-PROD-BUCKET-1	AWS-S3-PROD-BUCKET-1	Trigger
<input type="checkbox"/>	2022-11-03 09:15:00	Warning	PROBLEM	AWS-S3-DEV	AWS-S3-DEV	Items
<input type="checkbox"/>	2022-11-03 09:13:08	Warning	PROBLEM	AWS-S3-DEV	AWS-S3-DEV	PROBLEM
						Mark as cause
						Mark selected as symptoms

Zabbix 6.4 - Overview of the latest UI/UX improvements

TEMPLATE VERSIONING



TEMPLATE VERSIONING

Template versioning has been introduced to improve the template management and ease of use:

- ✓ New fields in the template list – *Vendor* and *Version*

Templates

Template groups

type here to search

Select

Linked templates

type here to search

Select

Name

Vendor

Zabbix

Version

Apply

Reset

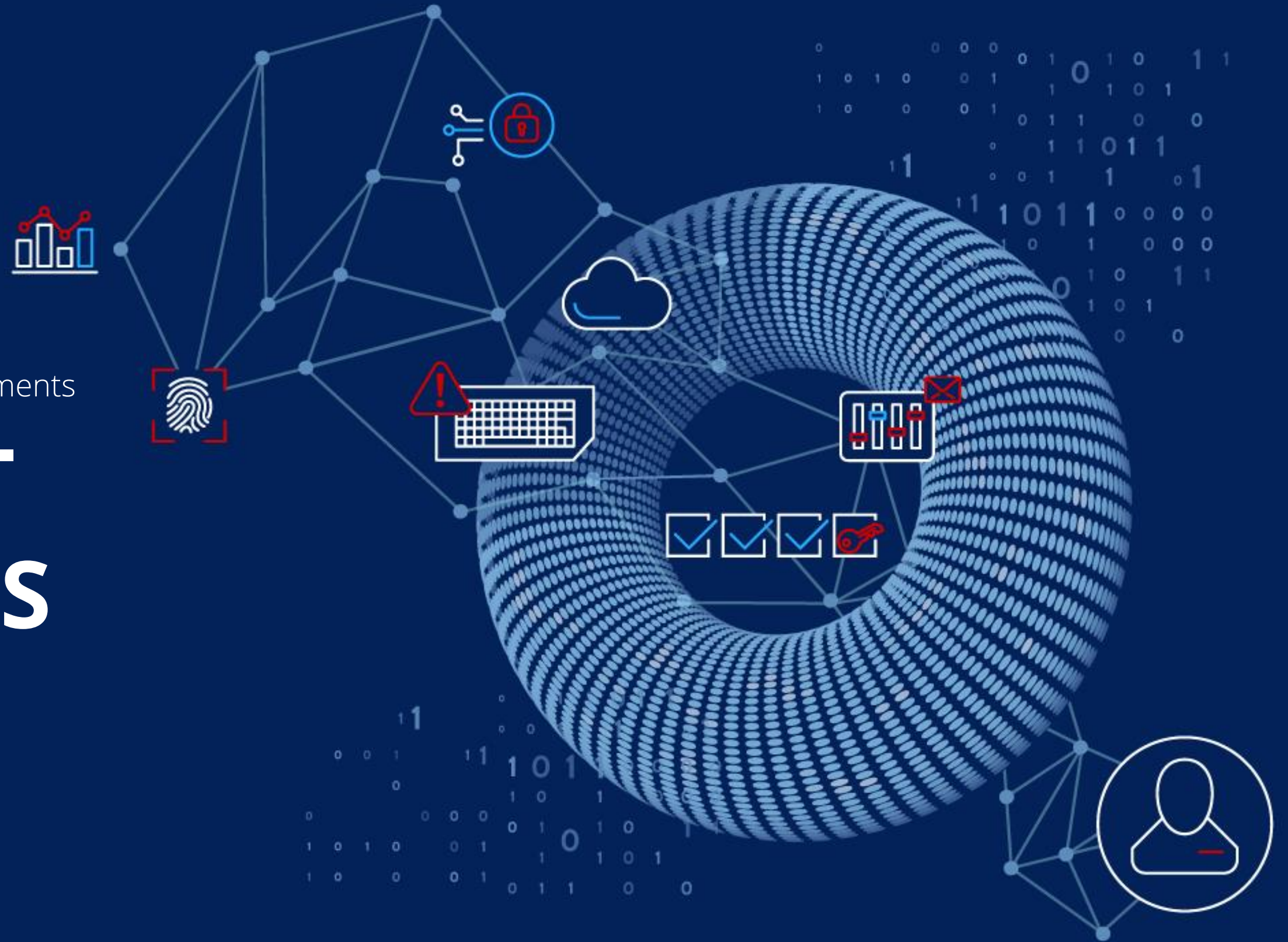
<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version
<input type="checkbox"/>	AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2	Web	Zabbix	6.4-0
<input type="checkbox"/>	Linux by Prom	Hosts	Items 34	Triggers 12	Graphs 7	Dashboards 2	Discovery 3	Web	Zabbix	6.4-0

TEMPLATE VERSIONING - NOTES

- ✓ Existing templates will have empty vendor and version fields
- ✓ Import the latest Zabbix 6.4 templates to populate the vendor and version fields
- ✓ Vendor and version fields cannot be edited manually in the frontend
- ✓ For custom templates, the vendor and version fields will have to be populated by providing them in the template file

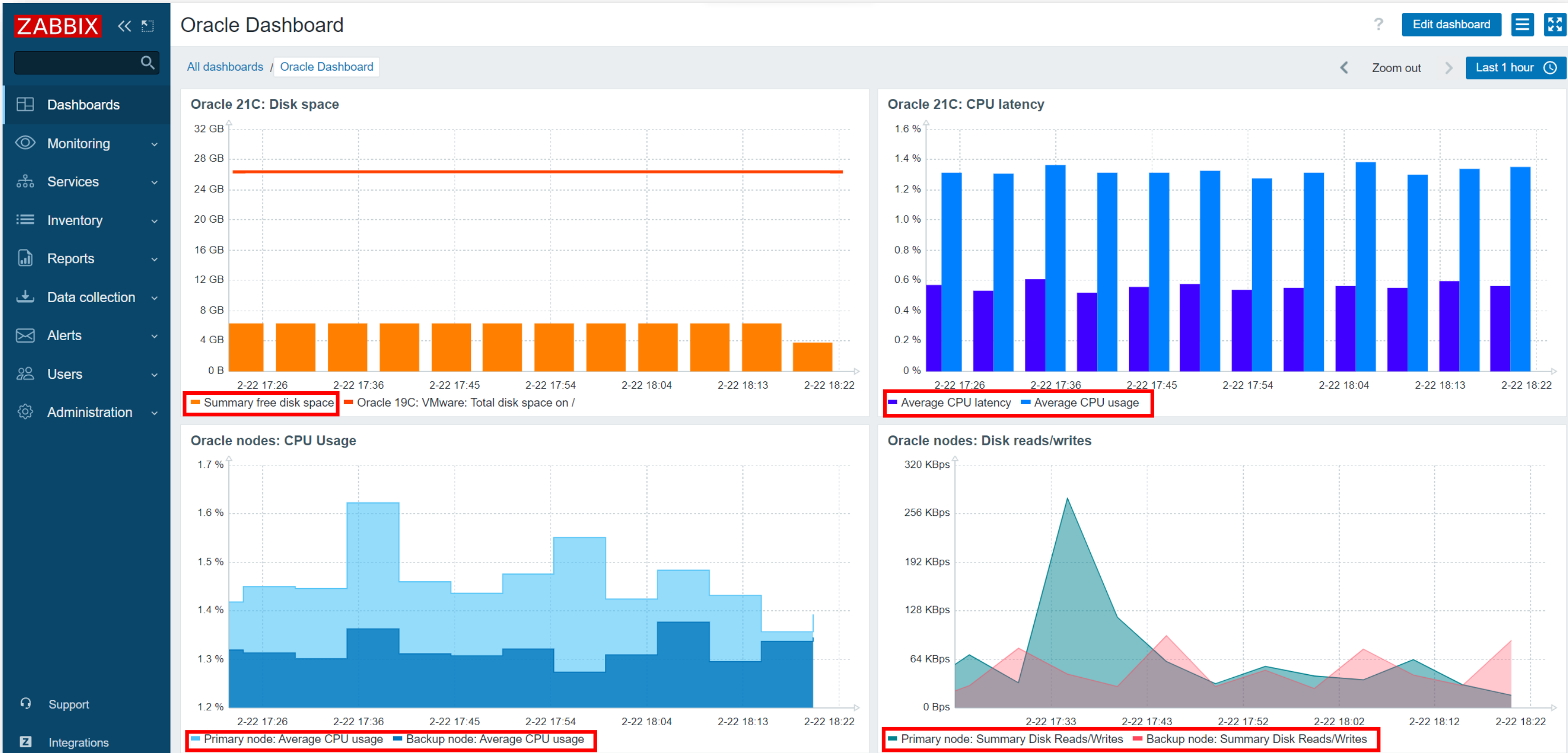
Zabbix 6.4 - Overview of the latest UI/UX improvements

GRAPH WIDGET IMPROVEMENTS



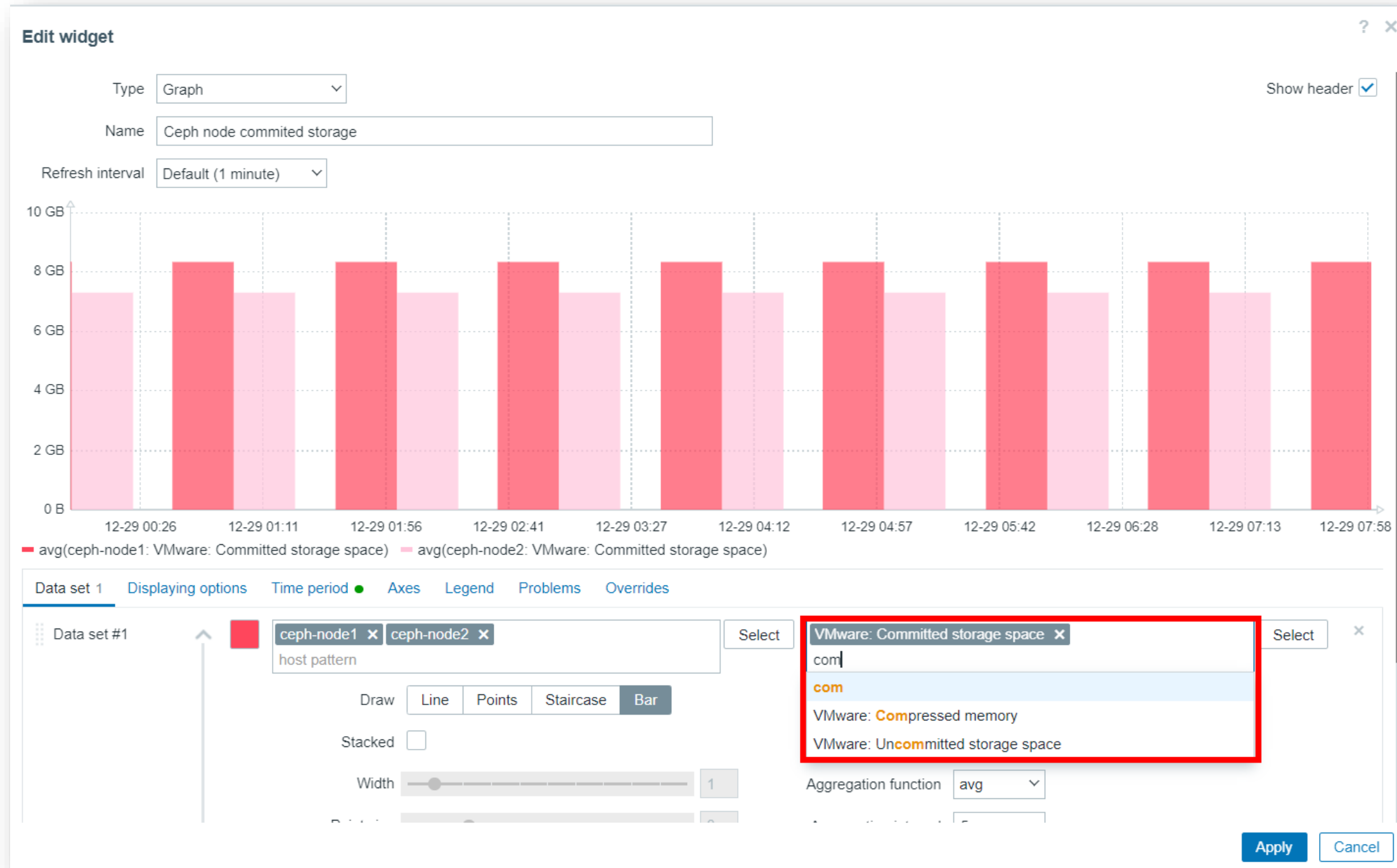
CUSTOM AGGREGATE FUNCTION LABELS

Labels can be provided for aggregated data sets, to gain better understanding of displayed data:



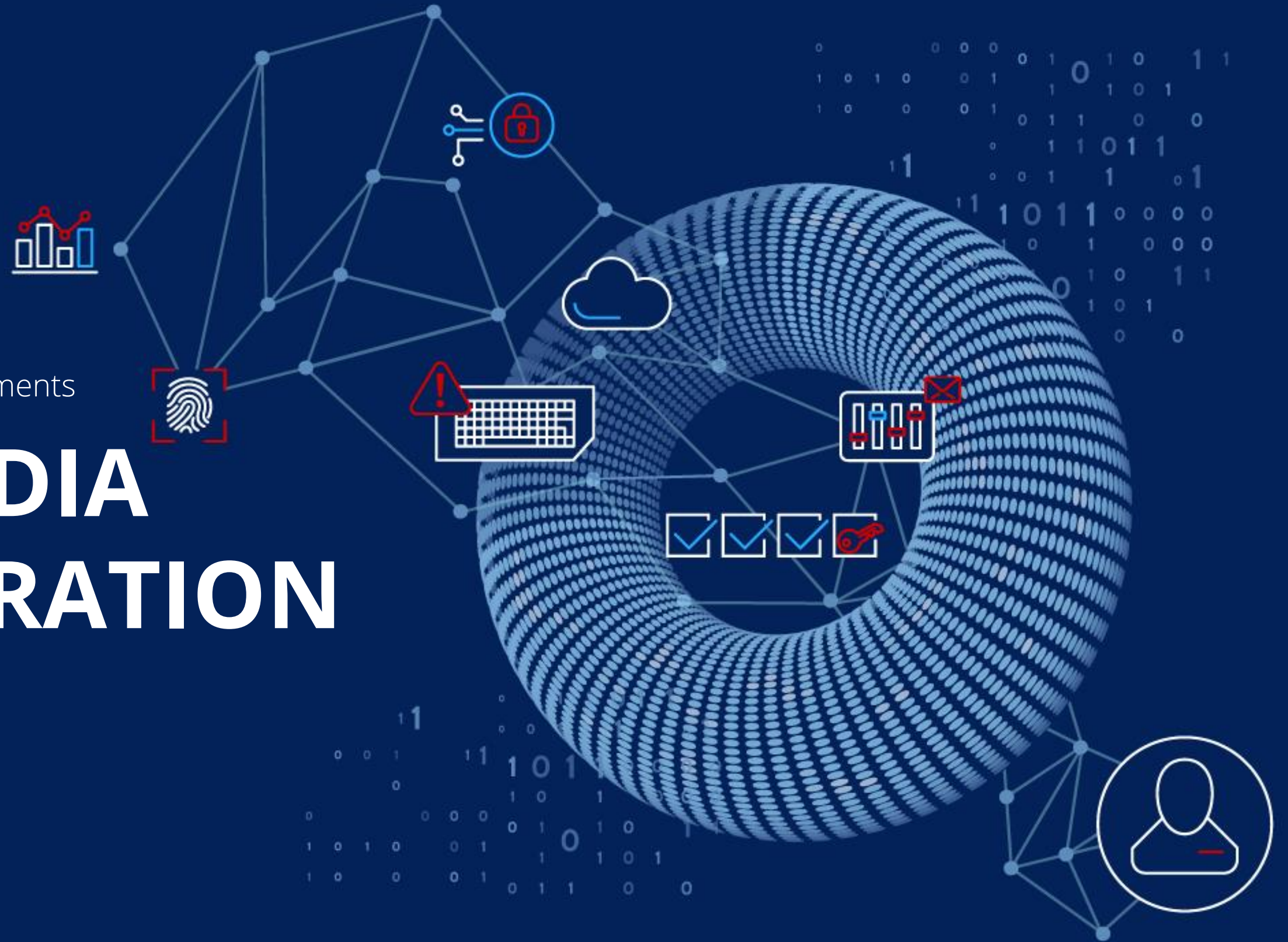
IMPROVED AUTOCOMPLETE

The Item pattern field suggestions now only display the items that belong to the selected hosts



Zabbix 6.4 - Overview of the latest UI/UX improvements

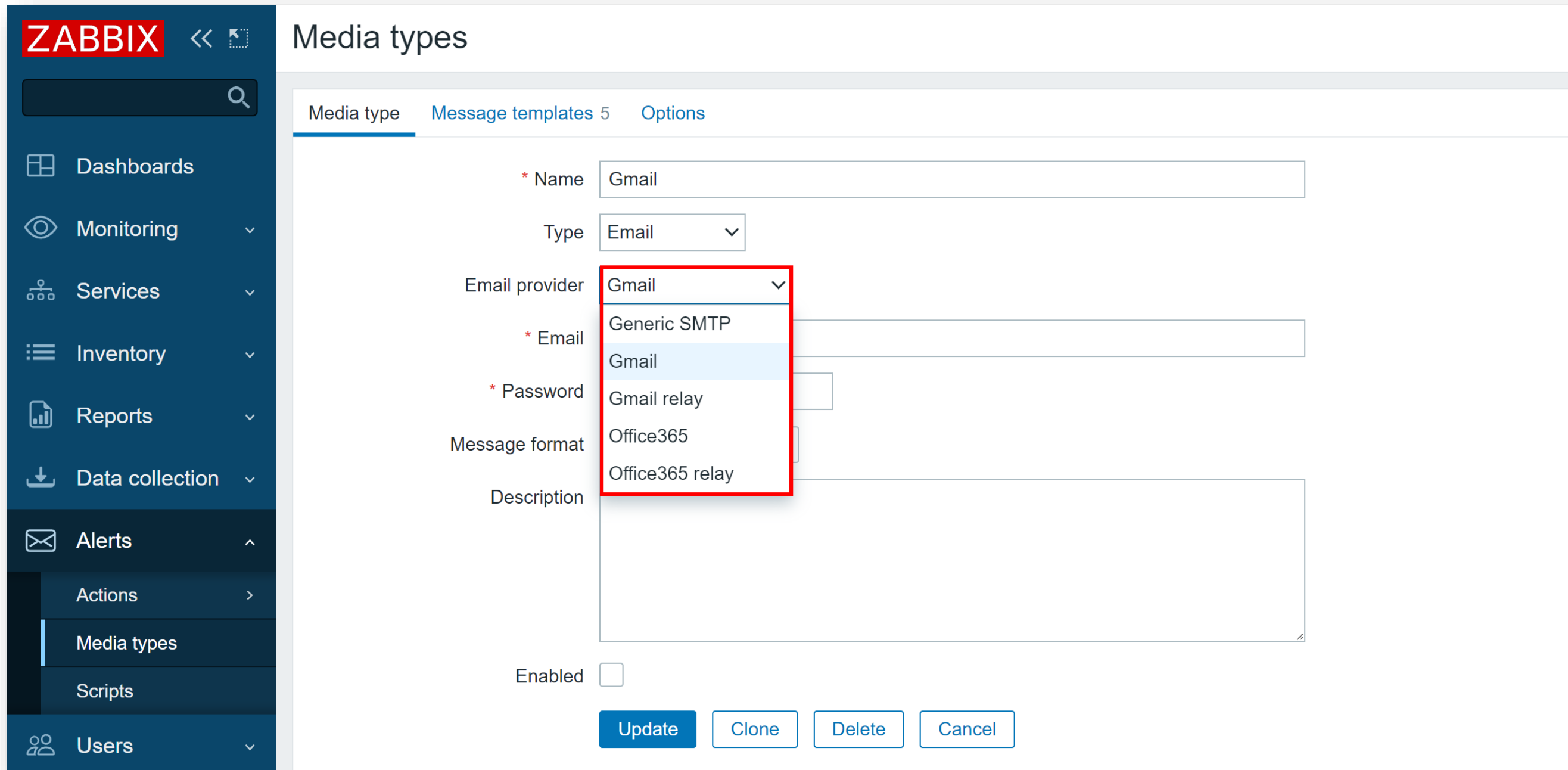
SIMPLIFIED MEDIA TYPE CONFIGURATION



IMPROVED MEDIA TYPE CONFIGURATION

Zabbix 6.4 introduces the ability to select an email provider

- ✓ Select from Gmail, Gmail relay, O365, O365 relay or Generic SMTP
- ✓ Generic SMTP configuration corresponds to the old default email media type configuration



The screenshot shows the Zabbix 6.4 web interface for configuring media types. The left sidebar contains the ZABBIX logo and navigation links: Dashboards, Monitoring, Services, Inventory, Reports, Data collection, Alerts, Actions, Media types (selected), Scripts, and Users. The main content area is titled 'Media types' and has tabs for 'Media type', 'Message templates 5', and 'Options'. The 'Media type' tab is active, showing a form for configuring a media type. The form includes fields for Name (Gmail), Type (Email), Email provider (Gmail), Email (*), Password (*), Message format, and Description. The 'Email provider' dropdown menu is open, showing a list of options: Generic SMTP, Gmail (highlighted), Gmail relay, Office365, and Office365 relay. At the bottom of the form, there is an 'Enabled' checkbox and four buttons: Update, Clone, Delete, and Cancel.

ZABBIX << >> Media types

Media type Message templates 5 Options

* Name Gmail

Type Email

Email provider Gmail

* Email

* Password

Message format

Description

Enabled ☐

Update Clone Delete Cancel

Zabbix 6.4 - Overview of the latest UI/UX improvements

CUSTOM LINKS AND TRIGGER URL LABELS



CUSTOM LINKS

Ability to provide custom URLs for hosts/events, to quickly manage the problem in an external system

ZABBIX

Dashboards

Monitoring

Services

Inventory

Reports

Data collection

Alerts

Actions

Media types

Scripts

Users

Administration

Name

Open incident

Scope

Action operationManual host actionManual event action

Menu path

Internal/Incidents

Type

URLWebhookScriptSSHTelnetIPMI

URL

http://<my URL>

Open in a new window

☒

Description

Open the incidents page

Host group

All

User group

All

Required host permissions

ReadWrite

Enable confirmation

☐

Confirmation text

Test confirmation

Update

Clone

Delete

Cancel

CUSTOM LINKS

- ✓ Trigger URLs can also be assigned in trigger configuration
- ✓ Ability to define more user-friendly navigation to URLs from events

VIEW

Problems

Acknowledge

History

CONFIGURATION

Trigger

Items

LINKS

Internal

Trigger URL

☐ Show unacknowledged only

☐ Show timeline

☐ Highlight whole row

Reset

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
09:18:16	Warning		PROBLEM		Zabbix server	Proxy is incompatible	4h 23m 18s	No		class: software component: proxy proxy-name: QA env...
09:00									Incidents	Open incident
08:55:49	Warning		PROBLEM		Apache node 2	System time is out of sync (diff with Zabbix server > 60s)	4h 45m 45s	No		class: os component: system scope: availability
08:54:16	Warning		PROBLEM		Zabbix server	Proxy [Los Angeles proxy]: Zabbix proxy is incompatible	4h 47m 18s	No		class: software component: proxy proxy-name: Los Ange...

Displaying 3 of 1

TRIGGER URL LABELS

A menu entry label can now be defined for trigger URLs

- ✓ Visible when clicking on the problem event generated by the trigger

* Expression

```
fuzzytime(/Apache node 2/system.localtime,
{$SYSTEM.FUZZYTIME.MAX})=0
```

Add

Expression constructor

OK event generation

ExpressionRecovery expressionNone

PROBLEM event generation mode

SingleMultiple

OK event closes

All problemsAll problems if tag values match

Allow manual close

☒

Menu entry name ?

Internal Ticketing system

Menu entry URL

http://<your URL>

Zabbix 6.4 - Overview of the latest UI/UX improvements

OPTIONAL INTERFACES FOR SERVER-ORIGINATED CHECKS



OPTIONAL INTERFACES FOR SERVER-ORIGINATED CHECKS

Remember what we showed you at the start of the presentation?

* Name

Type

* Key

Type of information

* Host interface

User name **Agent**

192.168.50.70:10050

Password

Simple check but with an Agent interface...?

OPTIONAL INTERFACES FOR SERVER-ORIGINATED CHECKS

Having a dummy host interface isn't required anymore for item types related to checks originating directly from Zabbix server or Zabbix proxy:

- ✓ Simple check
- ✓ External check
- ✓ SSH agent
- ✓ Telnet agent

Item

Tags

Preprocessing

* Name

Ping status

Type

Simple check

▼

* Key

icmpping[192.168.50.116]

Select

Type of information

Numeric (unsigned)

▼

Host interface

None

▼

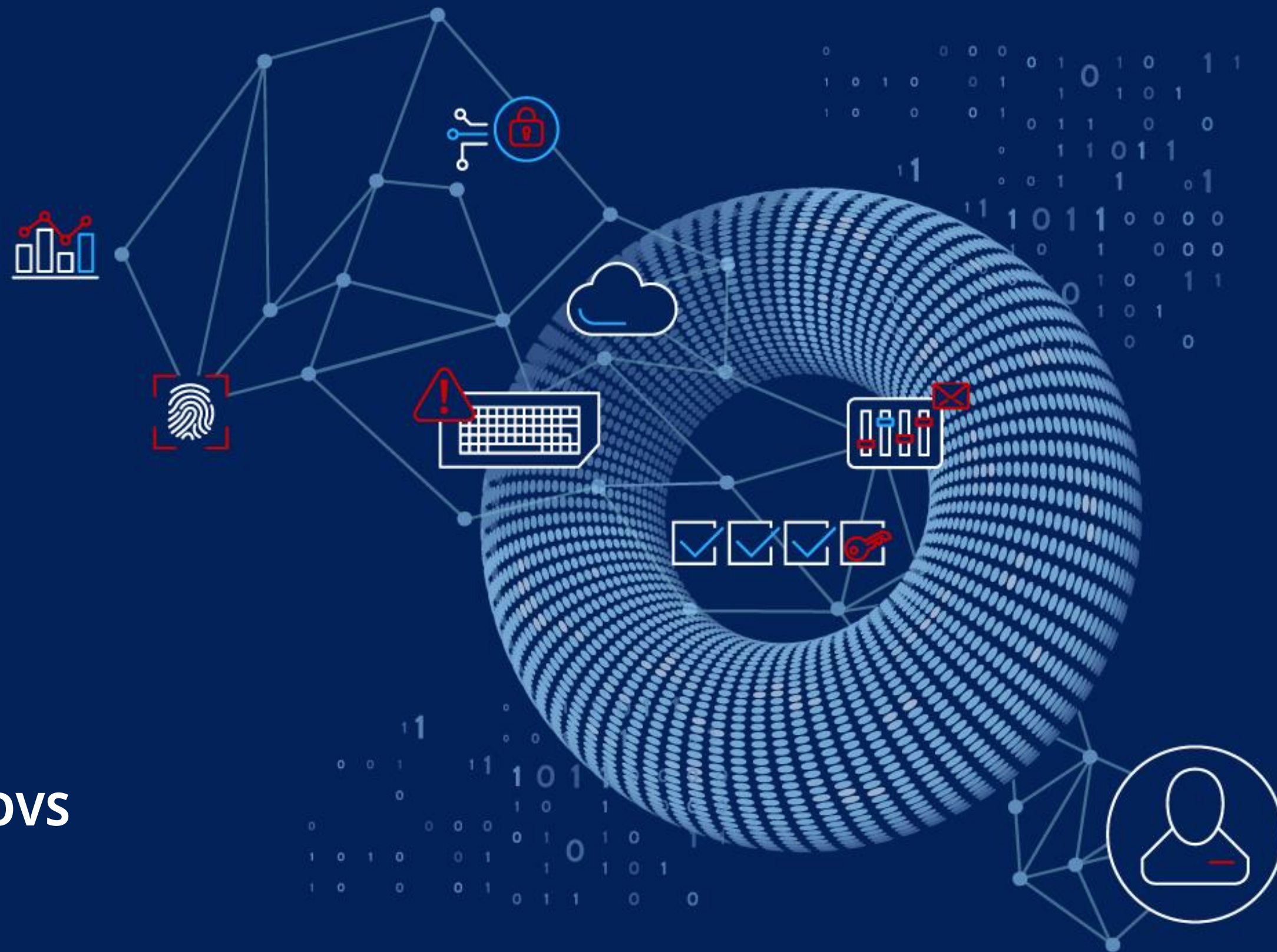
ZABBIX

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QUESTIONS?

ALEKSANDRS PETROVS-GAVRILOVS
TECHNICAL SUPPORT ENGINEER

ZABBIX



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THANK YOU!

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TECHNICAL SUPPORT ENGINEER

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