

Čo nové prináša Zabbix 7.4

8.7.2025

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ZABBIX 7.4



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- **7.5.2025** JMX monitoring
- **4.6.2025** Vzdialená správa konfigurácie Zabbix



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Agenda

1. Host Wizard
2. Vnorené low-level discovery
3. Vnorené prototypy hostov
4. Item card widget
5. Vylepšenia sieťových máp
6. Vylepšenia dashboardov
7. Okamžitá validácia formulárov
8. Šifrovanie frontend - server komunikácie
9. Vylepšenia UX/UI
10. Nové šablóny a integrácie
11. Ďalšie zmeny a vylepšenia



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Host wizard

Spríevodca pre vytvorenie hosta

Sprevádza užívateľa pri vytváraní a konfigurácii hosta

Welcome to the Host Wizard

The Host Wizard will help you set up your monitoring target (device, application, service, etc.) in Zabbix.

You can always access Host Wizard from Data collection > Hosts.

☐ Do not show welcome screen

Select a template

Create or select a host

A template is a set of predefined configurations (metrics to be collected, conditions for generating alerts, etc.) designed for your monitoring target.

Type a keyword to search for templates.

Data collection **Agent mode**

All **Agent-based** **Agentless** **All** **Active** **Passive**

Templates

Cloud (26)

automation backup bigdata computing containers deploy management nosql

AWS Cost Explorer by HTTP

Tags

target: aws class: cloud

Show more

AWS EC2 by HTTP

Tags

target: aws target: ec2

class: cloud subclass: computing

Show more

AWS ELB Application Load Balancer by HTTP

AWS ELB Network Load Balancer by HTTP

AWS ELB

Configure host (2/2)

To complete the setup, configure the following variables (host macros).

Seconds since the last Zabbix agent seen

3m

Threshold of CPU utilization expressed

90

The CPU load per core

1.5

Threshold of the filesystem utilization

80

Threshold of the filesystem utilization (critical)

90

Threshold of the filesystem metadata utilization

20

Threshold of the filesystem metadata utilization (critical)

10

Macro: (\$AGENT.TIMEOUT)

Timeout after which agent is considered unavailable.

Macro: (\$CPU.LIMIT.CRT)

Critical threshold of CPU utilization expressed in %. In the range from 0 to 100 inclusive.

Macro: (\$LOAD.AVG.PER.CPU.MAX.WARN)

CPU load per core is considered sustainable. No less than 0.

Macro: (\$VFS.FS.PUSED.MAX.WARN)

Warning threshold of the filesystem utilization. In the range from 0 to 100 inclusive.

Macro: (\$VFS.FS.PUSED.MAX.CRT)

Critical threshold of the filesystem utilization. In the range from 0 to 100 inclusive.

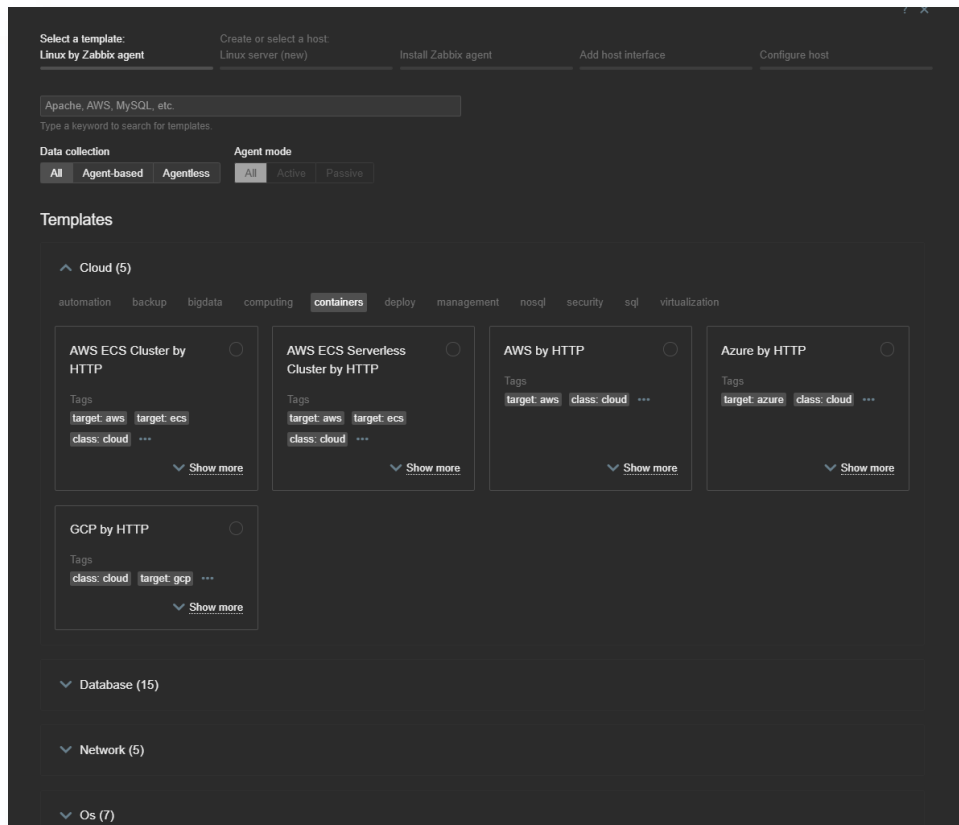
Macro: (\$VFS.FS.NODE.FREE.MIN.WARN)

Warning threshold of the filesystem metadata utilization. In the range from 0 to 100 inclusive.

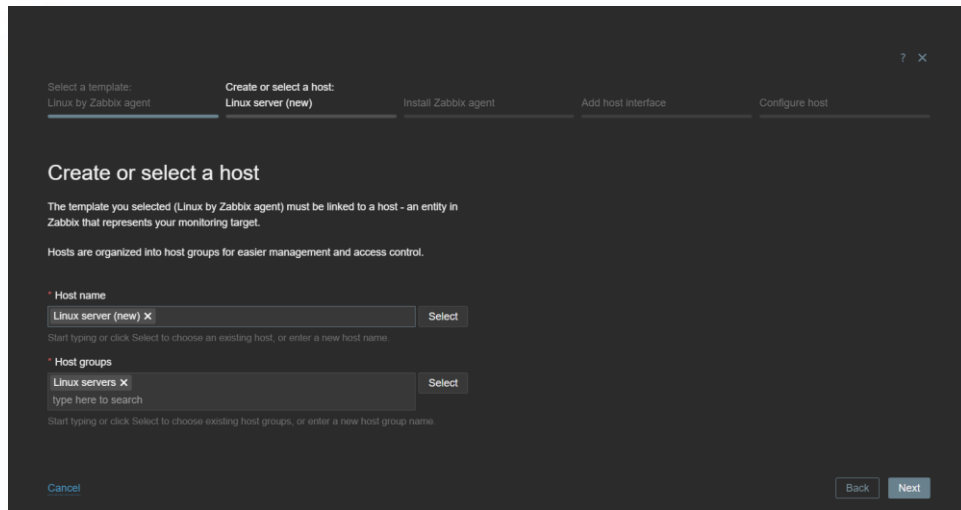
Macro: (\$VFS.FS.NODE.FREE.MIN.CRT)

Critical threshold of the filesystem metadata utilization. In the range from 0 to 100 inclusive.

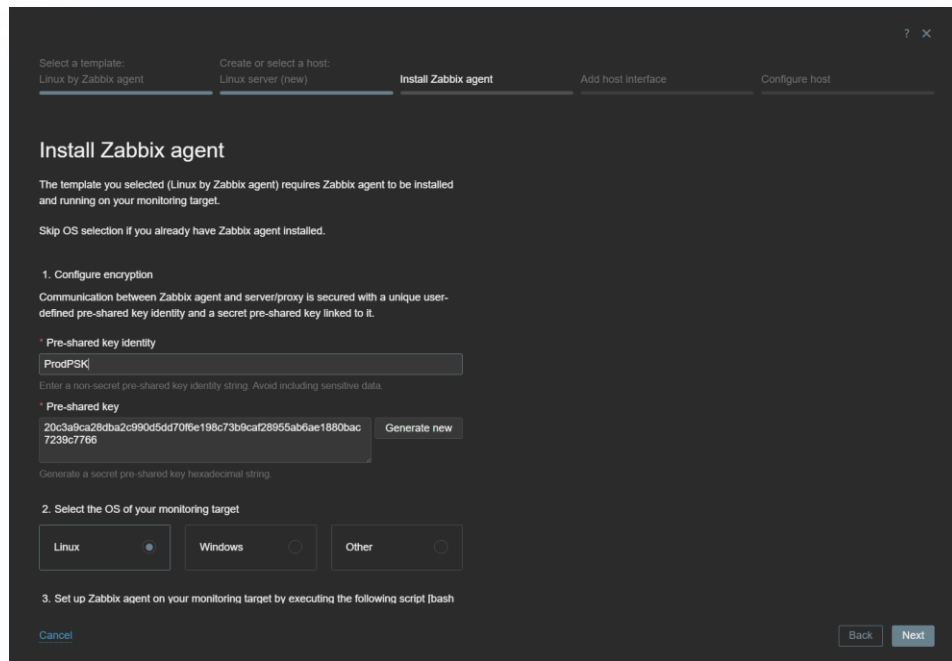
- Dostupný cez Data collection – Hosts
- Je nutné vybrať šablónu z tých ktoré podporujú host wizard



- Pri jednom prechode sprievodcom môže byť vybratá iba jedna šablóna
- Ďalšie šablóny sa dajú pridať keď po spustení sprievodcu vyberieme existujúci host

The screenshot shows the 'Create or select a host' step of the Zabbix Host Wizard. At the top, there is a progress bar with five steps: 'Select a template' (Linux by Zabbix agent), 'Create or select a host:' (Linux server (new)), 'Install Zabbix agent', 'Add host interface', and 'Configure host'. The current step is highlighted. Below the progress bar, the title 'Create or select a host' is followed by a note: 'The template you selected (Linux by Zabbix agent) must be linked to a host - an entity in Zabbix that represents your monitoring target.' Below this, a sub-note states: 'Hosts are organized into host groups for easier management and access control.' There are two main sections: 'Host name' and 'Host groups'. The 'Host name' section has a text input field containing 'Linux server (new) X' and a 'Select' button. Below it, a small note says 'Start typing or click Select to choose an existing host, or enter a new host name.' The 'Host groups' section has a text input field containing 'Linux servers X' and a 'Select' button. Below it, a small note says 'Start typing or click Select to choose existing host groups, or enter a new host group name.' At the bottom left is a 'Cancel' button, and at the bottom right are 'Back' and 'Next' buttons.

- Vybrať príslušný OS, nastavenie šifrovania a ďalšie parametre podľa rozhrania
- Postupovať podľa inštrukcií uvedených v sprievodcovi

The image shows the 'Install Zabbix agent' step of the Zabbix Host Wizard. The wizard has five tabs: 'Select a template: Linux by Zabbix agent', 'Create or select a host: Linux server (new)', 'Install Zabbix agent' (active), 'Add host interface', and 'Configure host'. The main content area is titled 'Install Zabbix agent' and contains the following text: 'The template you selected (Linux by Zabbix agent) requires Zabbix agent to be installed and running on your monitoring target.' and 'Skip OS selection if you already have Zabbix agent installed.' Below this is section '1. Configure encryption' with the text 'Communication between Zabbix agent and server/proxy is secured with a unique user-defined pre-shared key identity and a secret pre-shared key linked to it.' There are two input fields: 'Pre-shared key identity' with the value 'ProdPSK' and 'Pre-shared key' with a long hexadecimal string. A 'Generate new' button is next to the second field. Below these is the text 'Generate a secret pre-shared key hexadecimal string.' Section '2. Select the OS of your monitoring target' has three radio buttons: 'Linux' (selected), 'Windows', and 'Other'. Section '3. Set up Zabbix agent on your monitoring target by executing the following script [bash]' is partially visible. At the bottom are 'Cancel', 'Back', and 'Next' buttons.

- Nakonfigurujete požadované rozhranie
- Ďalšie inštrukcie ku konfigurácii hosta a poznámky k šablóne
- Umožní nastaviť hodnoty makier pred nasadením hosta

The screenshot shows the Zabbix Host Wizard interface. The top navigation bar includes: Select a template: Linux by Zabbix agent, Create or select a host: Linux server (new), Install Zabbix agent, Add host interface (active), and Configure host.

Add host interface

The template you selected (Linux by Zabbix agent) requires the Agent interface to be added to the host (Linux server).

Note: Agent must be configured and enabled on your monitoring target.

Agent address: 127.0.0.1
Agent port: 10050

Enter the IP/DNS address and port of the Zabbix agent installed on your monitoring target.

Navigation: Select a template: Linux by Zabbix agent, Create or select a host: Linux server (new), Install Zabbix agent, Add host interface (active), Configure host.

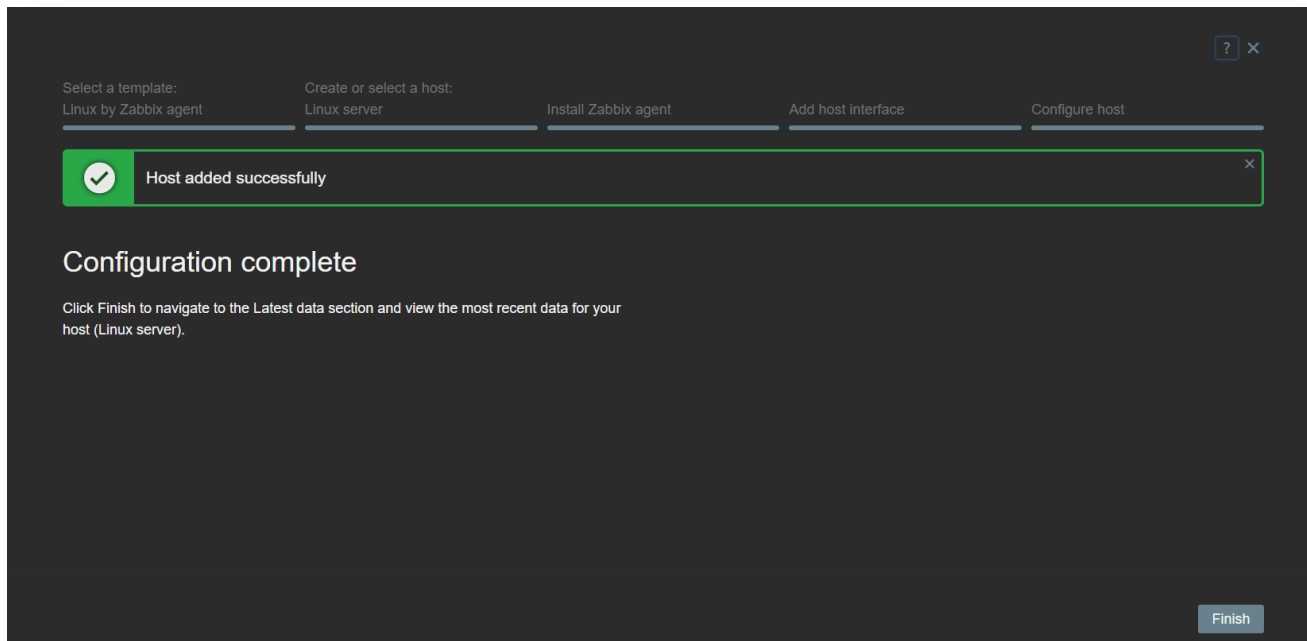
Configure host (2/2)

To complete the setup, configure the following variables (host macros).

Seconds since the last Zabbix agent seen	3m	T	Macro: {AGENT.TIMEOUT}	Timeout after which agent is considered unavailable.
Threshold of CPU utilization expressed	90	T	Macro: {CPU.UTIL.CRT}	Critical threshold of CPU utilization expressed in %. In the range from 0 to 100 inclusive.
The CPU load per core	1.5	T	Macro: {LOAD_AVG_PER_CPU.MAX.WARN}	CPU load per core is considered sustainable. No less than 0.
Threshold of the filesystem utilization	80	T	Macro: {VFS.FS.PUSED.MAX.WARN}	Warning threshold of the filesystem utilization. In the range from 0 to 100 inclusive.
Threshold of the filesystem utilization (critical)	90	T	Macro: {VFS.FS.PUSED.MAX.CRT}	Critical threshold of the filesystem utilization. In the range from 0 to 100 inclusive.
Threshold of the filesystem metadata utilization	20	T	Macro: {VFS.FS.INODE.PFREE.MIN.WARN}	Warning threshold of the filesystem metadata utilization. In the range from 0 to 100 inclusive.
Threshold of the filesystem metadata utilization (critical)	10	T	Macro: {VFS.FS.INODE.PFREE.MIN.CRT}	Critical threshold of the filesystem metadata utilization. In the range from 0 to 100 inclusive.

Navigation: Cancel, Back, Next

- Po dokončení sprievodcu je vytvorený host





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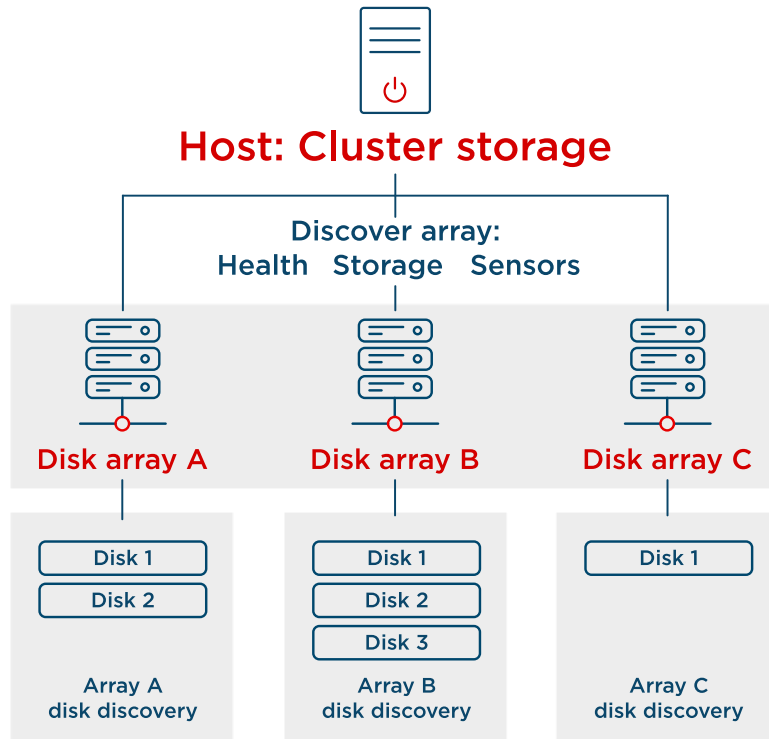
Vnorené low-level
discovery

Zabbix 7.4 prináša možnosť vytvárať prototypy LLD pravidiel

- Každý prototyp LLD pravidla má vlastné prototypy pre itemy, trigre, grafy, hosty a **discovery prototypy**
- Takto môžu byť jedným viacúrovňovým JSON poľom vykonávané viacúrovňové discovery
- Počet vnorení (úrovní) je neobmedzený

Vnorené low-level discovery je možné využiť na:

- Objavenie DB inštancií a potom cez vnorené LLD objavovať v inštanciách tabuľky
- Objavenie služby alebo aplikácie a potom cez vnorené LLD objavovať ich komponenty
- Objavenie hypervízorov a potom cez vnorené LLD objavovať virtuálne stroje a kontajnery



- Nový typ LLD pravidla - vnorené
- má vlastné prototypy vrátane discovery prototypov

Discovery rules

All hosts / Database Cluster Enabled ZBX Items 12 Triggers Graphs **Discovery rules 4** Web scenarios

Host groups Select

Hosts Select

Name

Key

Type All

Update interval

Delete lost resources All Never Immediately After

Disable lost resources All Never Immediately After

State All Normal Not supported

Status All Enabled Disabled

Apply Reset

	Host	Name	Items	Triggers	Graphs	Hosts	Discovery rules	Key	Interval	Type	Status	Info
☐	Database Cluster	Discover databases and tablespaces	Item prototypes 1	Trigger prototypes	Graph prototypes	Host prototypes	Discovery prototypes 1	dbcluster.discovery		Zabbix trapper	Enabled	
☐	Database Cluster	Discover databases and tablespaces; Discover tablespaces for db1	Item prototypes 1	Trigger prototypes	Graph prototypes	Host prototypes	Discovery prototypes	db.tablespace.discovery[db1]		Nested	Enabled	
☐	Database Cluster	Discover databases and tablespaces; Discover tablespaces for db2	Item prototypes 1	Trigger prototypes	Graph prototypes	Host prototypes	Discovery prototypes	db.tablespace.discovery[db2]		Nested	Enabled	
☐	Database Cluster	Discover databases and tablespaces; Discover tablespaces for db3	Item prototypes 1	Trigger prototypes	Graph prototypes	Host prototypes	Discovery prototypes	db.tablespace.discovery[db3]		Nested	Enabled	

Displaying 4 of 4 found

Discovery prototypes

All hosts / Database Cluster Enabled ZBX Discovery list / Discover databases and tablespaces Item prototypes 1 Trigger prototypes Graph prototypes Host prototypes **Discovery prototypes 1**

Discovery prototype Preprocessing 1 LLD macros 1 Filters Overrides

Name Discover tablespaces for (#DB)

Type Nested

Key db.tablespace.discovery[#{DB}]

Delete lost resources ? Never Immediately After 7d



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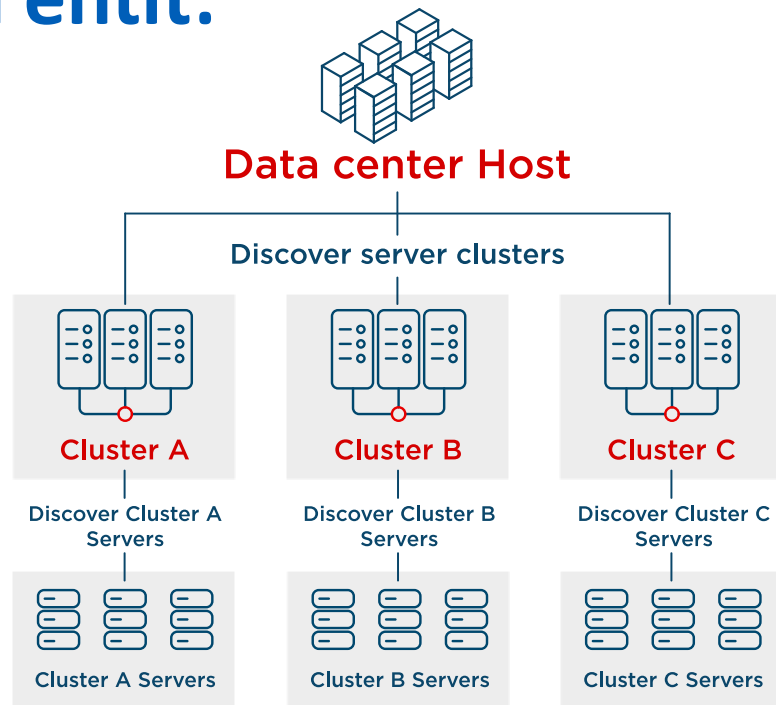
Vnorené prototypy
hostov

Vnorené prototypy hostov

- Hosty objavené cez prototypy hostov teraz môžu použiť LLD pravidlá na vytvorenie vlastných hostov
- Môžu byť definované na neobmedzenom počte úrovni
- Dajú sa použiť podobne ako vnorené LLD pravidlá
- Vnorené prototypy hostov a LLD pravidlá poskytujú nové možnosti pre automatizovanú detekciu hostov a itemov

Vnorené prototypy hostov sú užitočné k objavovaniu viacúrovňových entít:

- Objavovanie klastrových hostov, ktoré následne objavia hosty pre jednotlivé nody
- Objavovanie databázových hostov, ktoré následne objavia hosty pre jednotlivé databázové tabuľky
- Objavovanie hostov storage polí, ktoré následne objavia hosty pre jednotlivé zariadenia
- Objavovanie hostov pre hypervízory, ktoré následne objavia hosty pre jednotlivé virtuálky



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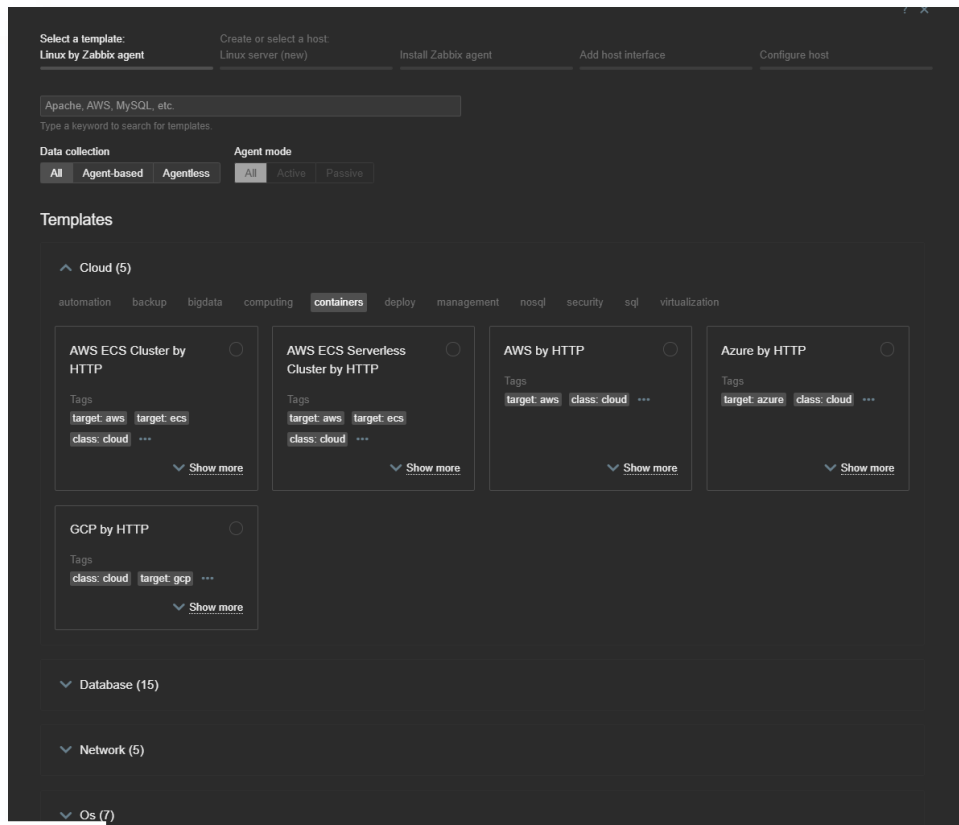
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Item card widget

Item card widget

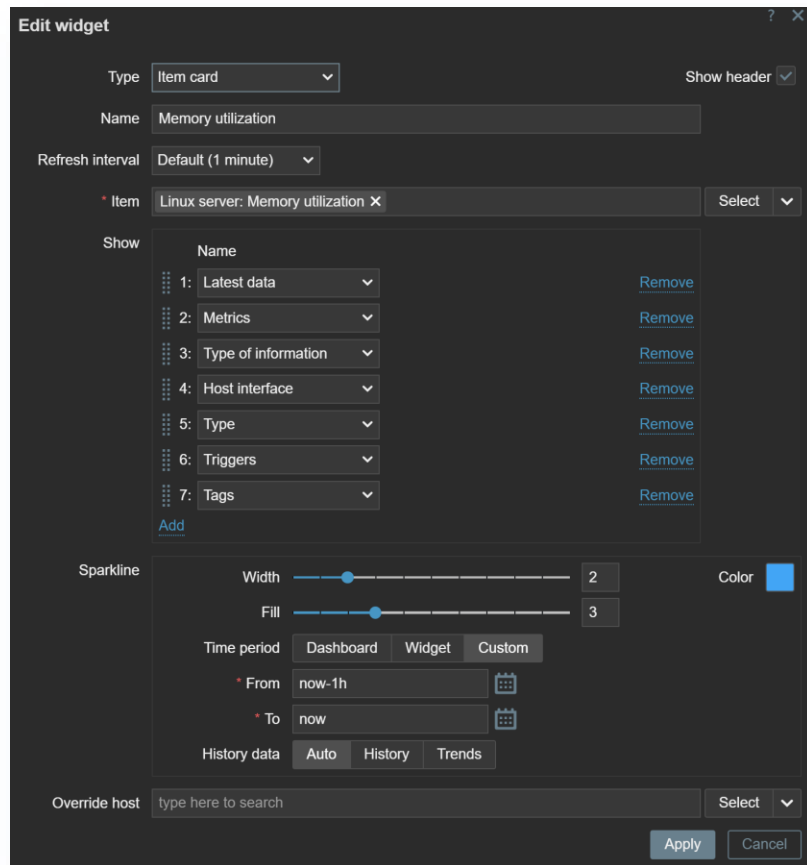
Konfigurovatelný pohľad na item a jeho atribúty:

- Výber zo zoznamu polí pre item
- Zobrazíť polia v ľubovoľnom poradí



The item card zobrazovať napríklad:

- Latest data
- Sparkline chart
- Item interface
- Tags
- Triggers
- Error messages
- Inventory information



The screenshot shows the 'Edit widget' configuration window in Zabbix. The 'Type' is set to 'Item card'. The 'Name' is 'Memory utilization'. The 'Refresh interval' is 'Default (1 minute)'. The 'Item' is 'Linux server: Memory utilization'. The 'Show' section lists seven items: '1: Latest data', '2: Metrics', '3: Type of information', '4: Host interface', '5: Type', '6: Triggers', and '7: Tags'. Each item has a 'Remove' link. The 'Sparkline' section shows 'Width' set to 2 and 'Fill' set to 3. The 'Time period' is set to 'Dashboard'. The 'From' date is 'now-1h' and the 'To' date is 'now'. The 'History data' is set to 'Auto'. The 'Override host' field is empty. The 'Apply' and 'Cancel' buttons are at the bottom right.

Edit widget

Type: Item card Show header: ☒

Name: Memory utilization

Refresh interval: Default (1 minute)

* Item: Linux server: Memory utilization X Select:

Show

Name	
1: Latest data	Remove
2: Metrics	Remove
3: Type of information	Remove
4: Host interface	Remove
5: Type	Remove
6: Triggers	Remove
7: Tags	Remove

[Add](#)

Sparkline

Width: 2 Color:

Fill: 3

Time period: Dashboard Widget Custom

* From: now-1h

* To: now

History data: Auto History Trends

Override host: type here to search Select:

The background features a complex network visualization with glowing blue and purple nodes and connecting lines, creating a sense of dynamic connectivity. Various circular icons are scattered throughout, representing different network components and services.

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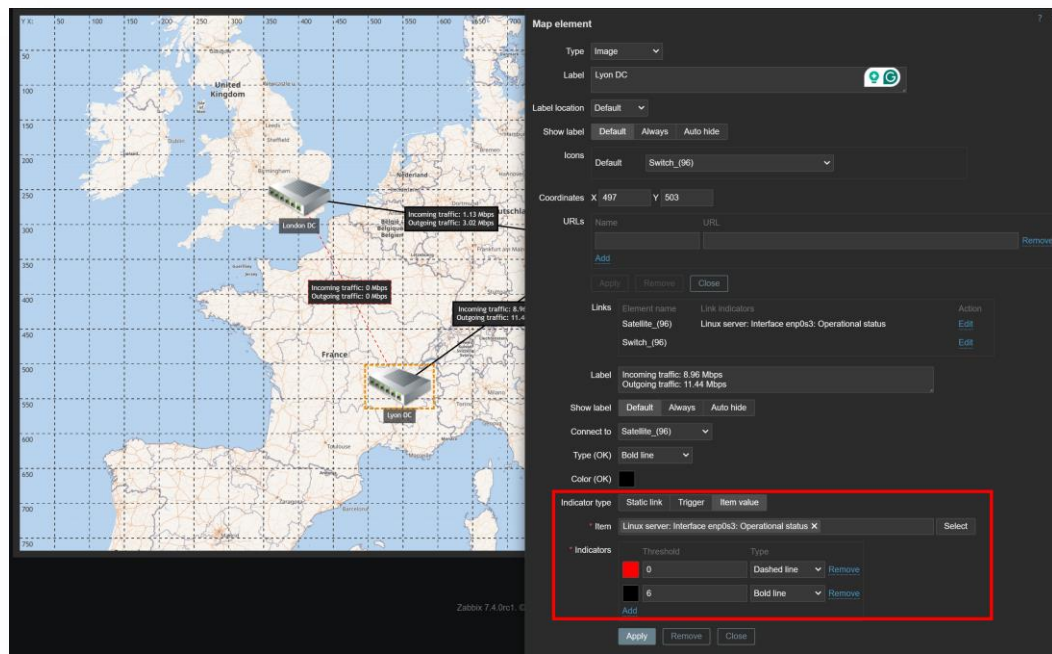
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Vylepšenia sieťových máp

Niekoľko vylepšení:

- Obrázky v pozadí máp sa dajú škálovať proporčne k veľkosti mapy
- Linky v mapách majú indikátory na základe prahových hodnôt



- Ikony elementov mapy teraz podporujú usporiadanie vpredu/vzadu (os Z)
- Elementy typu host group teraz vyhodnocujú vnorené skupiny pre príslušné údaje
- Linky a štítky teraz môžu byť skryté a objaviť sa iba pri prejdení myšou





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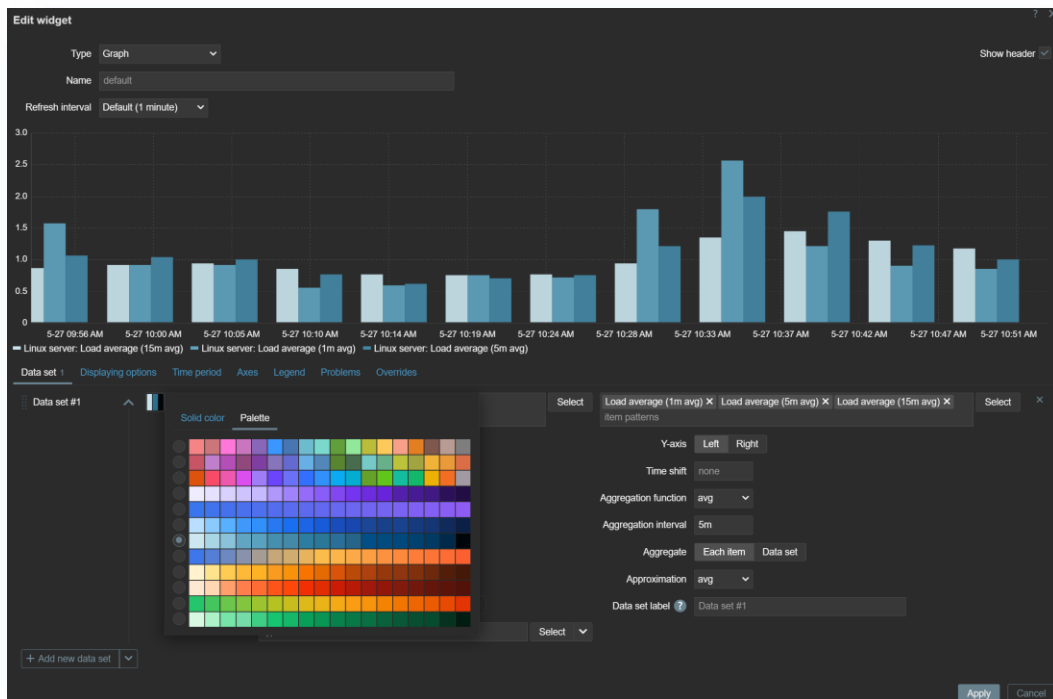
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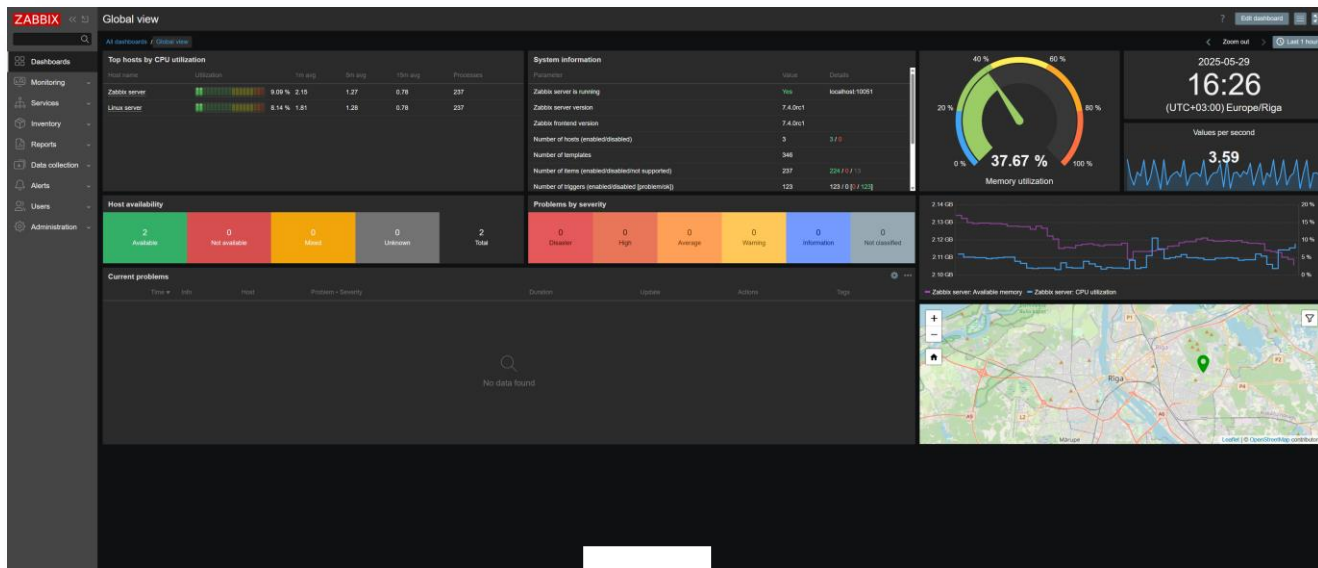
Vylepšenia dashboardov

Vylepšenia dashboardov pre rýchlejšiu a ľahšiu konfiguráciu:

- Nové farebné schémy/palety pre data sety v grafoch
- Zmeny v konfigurácii widgetov sa teraz prejavia okamžite



- Vylepšenia východzieho dashboardu Global View





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Okamžitá validácia
formulárov

- Host configuration
- Template configuration
- Item configuration
- Trigger configuration

Neskôr podpora aj pre ďalšie
sekcie UI v ďalších hlavných
releasoch

The screenshot shows the 'Host' configuration page in Zabbix. The page has a dark theme and a top navigation bar with tabs: Host, IPMI, Tags, Macros, Inventory, Encryption, and Value mapping. The 'Host' tab is active. The form contains the following fields and controls:

- Host name:** A text input field with a red border and an error message below it: "This field cannot be empty."
- Visible name:** A text input field.
- Templates:** A text input field with the placeholder "type here to search" and a "Select" button.
- Host groups:** A dropdown menu showing "Demo" with a close icon (X) and a "Select" button. Below it is a text input field with the placeholder "type here to search".
- Interfaces:** A section with the text "No interfaces are defined." and a blue "Add" link.
- Description:** A large text area.
- Monitored by:** A section with three buttons: "Server", "Proxy", and "Proxy group".
- Enabled:** A checkbox that is checked.

At the bottom right of the form are four buttons: "Update", "Clone", "Delete", and "Cancel".



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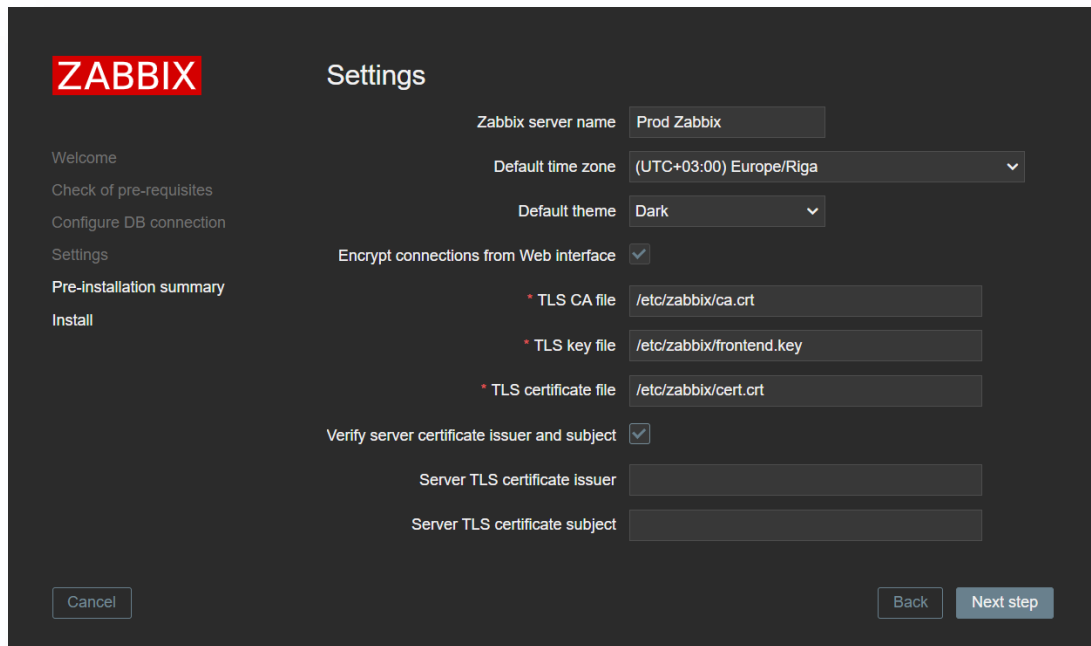
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Šifrovanie frontend -
server komunikácie

Podpora šifrovania frontend - server komunikácie pomocou certifikátov

- Nové parametre pre konfiguráciu Zabbix servera:
- TLSFrontendAccept – aké pripojenia akceptovať od frontendu
- TLSFrontendCertIssuer – povolený vydavateľ certifikátov pre frontend
- TLSFrontendCertSubject – povolený subjekt pre certifikáty frontendu
- FrontendAllowedIP – iba pripojenia z vymenovaných IP adries budú akceptované

Podpora šifrovania frontend - server komunikácie

A screenshot of the ZABBIX Settings interface. On the left is a sidebar with navigation links: Welcome, Check of pre-requisites, Configure DB connection, Settings (highlighted), Pre-installation summary, and Install. The main area is titled 'Settings' and contains several configuration options. 'Zabbix server name' is set to 'Prod Zabbix'. 'Default time zone' is set to '(UTC+03:00) Europe/Riga'. 'Default theme' is set to 'Dark'. 'Encrypt connections from Web interface' is checked. There are three fields for TLS configuration: 'TLS CA file' (set to '/etc/zabbix/ca.crt'), 'TLS key file' (set to '/etc/zabbix/frontend.key'), and 'TLS certificate file' (set to '/etc/zabbix/cert.crt'). 'Verify server certificate issuer and subject' is checked. Below these are empty input fields for 'Server TLS certificate issuer' and 'Server TLS certificate subject'. At the bottom are 'Cancel', 'Back', and 'Next step' buttons.

ZABBIX Settings

Welcome

Check of pre-requisites

Configure DB connection

Settings

Pre-installation summary

Install

Zabbix server name: Prod Zabbix

Default time zone: (UTC+03:00) Europe/Riga

Default theme: Dark

Encrypt connections from Web interface: ☒

* TLS CA file: /etc/zabbix/ca.crt

* TLS key file: /etc/zabbix/frontend.key

* TLS certificate file: /etc/zabbix/cert.crt

Verify server certificate issuer and subject: ☒

Server TLS certificate issuer:

Server TLS certificate subject:

Cancel Back Next step

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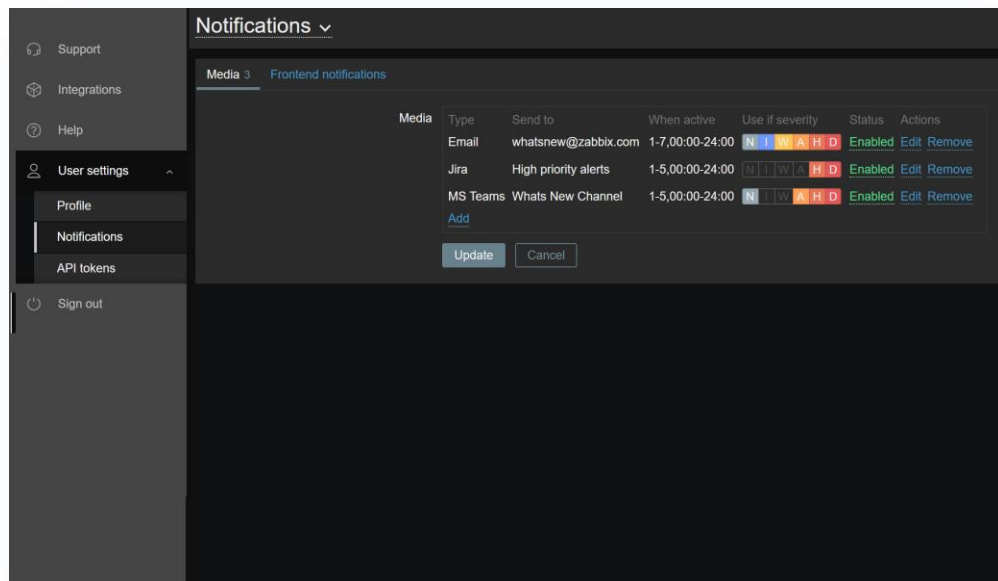
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Vylepšenia UX/UI

- Nová sekcia Notifications pridaná do User Settings pre úpravu užívateľových notifikácií
- By default si teraz všetci užívatelia môžu spravovať vlastné media. Tieto práva sa dajú zablokovat v nastaveniach užívateľských rôl.
- Pre pohodlné kopírovanie výsledkov preprocesingu bolo pridané tlačidlo Copy to clipboard



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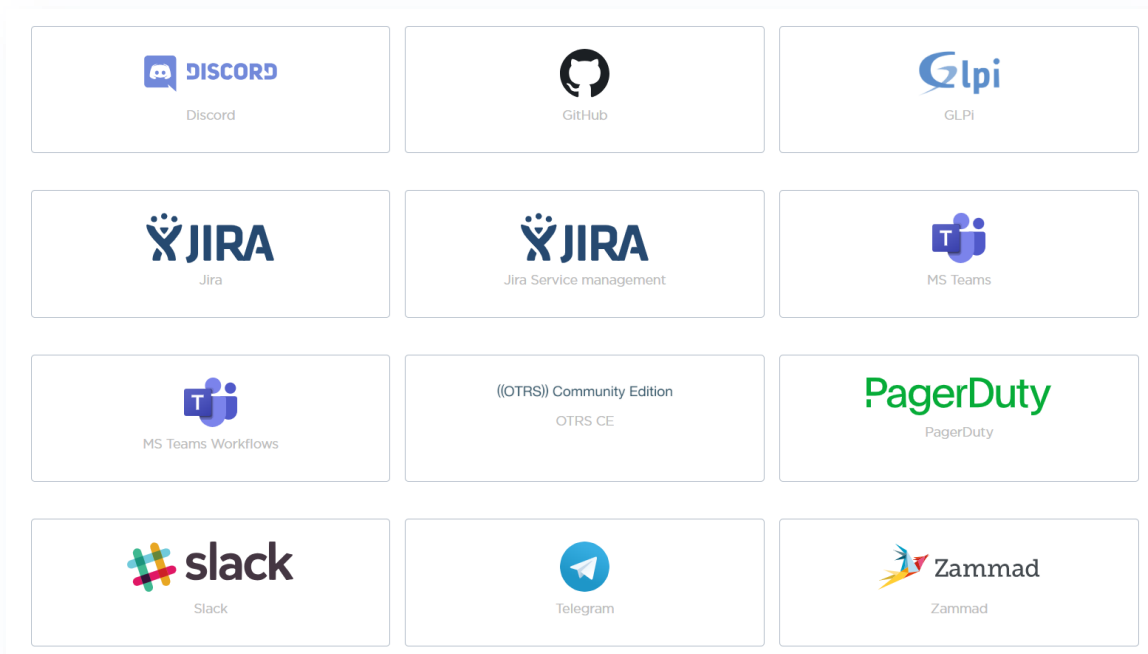
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Nové šablóny a
integrácie

Vylepšenia existujúcich webhookov



Nové šablóny



Pure Storage FlashArray by HTTP



Azure SQL Managed Instance by HTTP



Azure MSSQL DTU database by HTTP



Azure Backup Jobs by HTTP



Palo Alto PA-440 by HTTP



Juniper MX by NETCONF



Improvements and fixes for Dell by HTTP and SNMP



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Ďalšie zmeny a
vylepšenia

- Makrá uložené vo vault secret môžu byť vyhodnocované na Zabbix proxy
- Nový simple check **icmpingretry** pre sledovanie odoziev ICMP pingu s možnosťou modifikovať opakované pokusy
- Nové funkcie pre sledovanie časových pečiatok
- Niekoľko nových makier pre sledovanie časových pečiatok zberaných hodnôt

- Zabbix server/proxy automaticky loguje diagnostické informácie history cache keď je history cache plná
- Disablované itemy sú teraz okamžite odstránené z history cache
- Z history cache je možné manuálne vyčistiť dáta pre špecifický item podľa jeho ID (`history_cache_clear=target runtime command`)
- Podpora pre Gmail OAuth authentication (OAuth 2.0 for SMTP)



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Otázky ???



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