



WHAT'S NEW IN ZABBIX 6.4

ARTŪRS LONTONS
TECHNICAL MARKETING ENGINEER



ZABBIX 6.4

Zabbix 6.4 establishes the groundwork for many potential future improvements and new use cases by evolving multiple core aspects of Zabbix:

- ✓ User management and provisioning
- ✓ More streamlined upgrade procedure
- ✓ Simpler configuration and template management
- ✓ Performance improvements, especially for large environments
- ✓ Integrating Zabbix with 3rd party systems
- ✓ Improved problem and alert management

Zabbix 6.4 is currently in the beta testing stage. Multiple features discussed in this presentation will become available in the upcoming beta and release-candidate releases.



What's new in zabbix 6.4

JUST-IN-TIME USER PROVISIONING

JIT USER PROVISIONING

Zabbix 6.4 adds support of JIT user provisioning for LDAP and SAML authentication:

ZABBIX

<< < > >>

Search

Dashboards

Monitoring

Services

Inventory

Reports

Data collection

Alerts

Users

User groups

User roles

Users

API tokens

Authentication

Administration

Support

Authentication

LDAP Server

Enable LDAP

Enable LDAP

Description

LDAP server for internal company users

Configure JIT provisioning

☒

Group configuration

memberOf

groupOfNames

Group name attribute

cn

User group membership attribute

memberOf

User name attribute

name

User last name attribute

surname

* User group mapping

LDAP group pattern	User groups	User role	Action
*	NOC team	NOC team	Remove
Add			

Media type mapping

Name	Media type	Attribute	Action
O365	Office365	userEmail	Remove
Add			

Advanced configuration

☐

Update

Test

Cancel

JIT USER PROVISIONING

Zabbix 6.4 adds support of JIT user provisioning for LDAP and SAML authentication:

- ✓ It is not required for the user to already exist in Zabbix
- ✓ JIT provisioning also allows updating provisioned user accounts based on changes in LDAP
- ✓ Users are mapped to user groups and user roles
- ✓ LDAP media attributes can be mapped to a Zabbix media type

User group mapping ✕

* LDAP group pattern ?

* User groups

NOC team ✕

type here to search

Select

* User role

NOC team ✕

Select

Update

Cancel

Media type mapping ✕

* Name

O365

* Media type

Office365 ▼

* Attribute

userEmail

Update

Cancel

JIT USER PROVISIONING - NOTES

- ✓ The user account is created in Zabbix once the user logs in for the first time
- ✓ Provisioned users will be marked in the user list by a date entry
- ✓ The *Provision now* button can be used to update the user information from LDAP



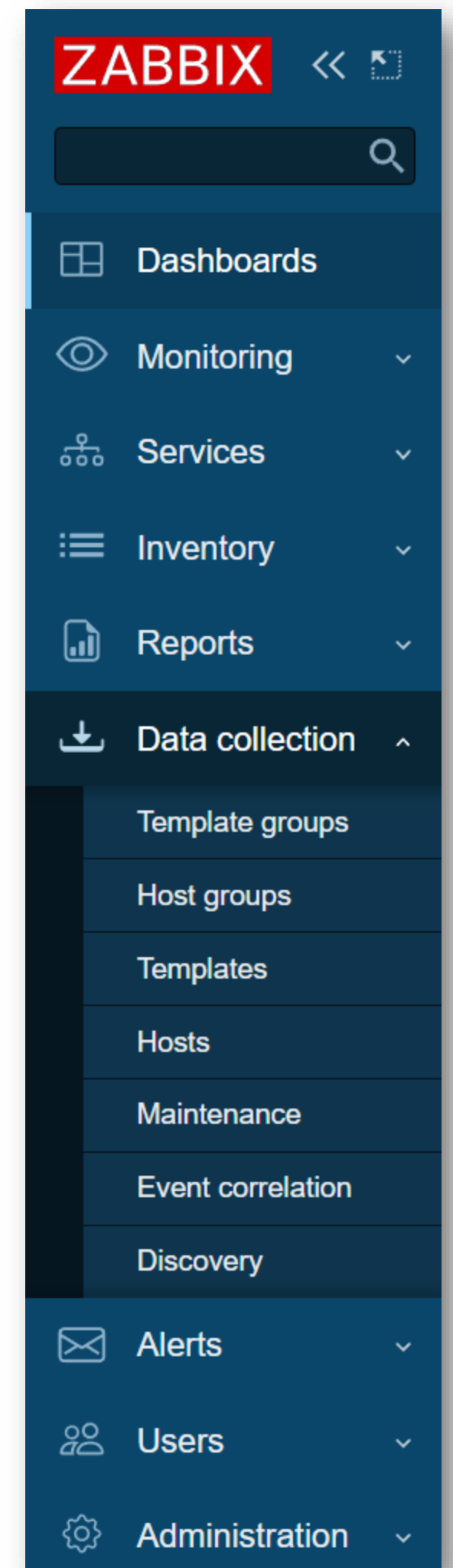
What's new in zabbix 6.4

NEW MENU STRUCTURE

NEW MENU STRUCTURE

The navigation menu first level sections have been redesigned:

- ✓ 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





What's new in zabbix 6.4

INSTANT PROXY CONFIGURATION SYNC

PROXY CONFIGURATION SYNC CHANGES

In Zabbix 6.2 we introduced the ability to synchronize the latest configuration changes with Zabbix proxies from the Zabbix frontend, but there was still some room for improvement:

The screenshot shows the Zabbix web interface for configuring a proxy. At the top, the 'ZABBIX' logo and a breadcrumb trail 'Proxies' are visible. A green notification bar at the top of the form states 'Request created successfully'. The form has two tabs: 'Proxy' (selected) and 'Encryption'. Under the 'Proxy' tab, the following fields are present:

- * Proxy name:** New York proxy
- Proxy mode:** Active (selected) / Passive
- Proxy address:** 192.168.50.144
- Description:** New York primary DC proxy

At the bottom of the form, there are five buttons: 'Update', 'Refresh configuration' (highlighted with a red border), 'Clone', 'Delete', and 'Cancel'.

PROXY CONFIGURATION SYNC IN ZABBIX 6.4

In Zabbix 6.4 we further improved the Zabbix proxy configuration sync workflow:

- ✓ The *ProxyConfigFrequency* parameter is now used in both Zabbix server (for passive mode) and Zabbix proxy (for active mode) configuration files
- ✓ *ConfigFrequency* parameter in Zabbix proxy configuration is now deprecated
- ✓ Default *ProxyConfigFrequency* parameter is 10 seconds (down from 1 hour)

PROXY CONFIGURATION SYNC PERFORMANCE

«But my proxies are quite large and such rapid configuration sync will affect my performance...or will it?»

INCREMENTAL CONFIGURATION SYNC

In Zabbix 6.2 we introduced incremental configuration updates

- ✓ Instead of reloading the whole configuration data set, only changes will be picked up by the Zabbix server
- ✓ This greatly improves performance during configuration updates
- ✓ The same logic has now been applied for proxies in Zabbix 6.4
- ✓ This allows us to use very rapid *ProxyConfigFrequency* values
- ✓ This also applies to manual proxy configuration updates by using *config_cache_reload* runtime command

Full configuration sync is performed in the following scenarios:

- ✓ On Zabbix proxy start/restart
- ✓ On Zabbix server HA failover
- ✓ If the current proxy session token is changed

INCREMENTAL CONFIGURATION SYNC

Full configuration sync is performed in the following scenarios:

- ✓ On Zabbix proxy start/restart
- ✓ On Zabbix server HA failover
- ✓ If the current proxy session token is changed (shouldn't happen during regular workflow)



What's new in zabbix 6.4

IMPROVED SNMP BULK DATA COLLECTION

COMBINED REQUESTS

The legacy style bulk requests present before Zabbix 6.4 have been renamed to *Combined requests*:

- ✓ Combined requests can cause issues on large or old SNMP devices, since they don't utilize *getnext* requests
- ✓ Therefore, a proper bulk request collection method has been implemented to resolve this

SNMP

192.168.50.29

IP

DNS

161

☒ [Remove](#)

* SNMP version

SNMPv2

▼

* SNMP community

{ \$SNMP_COMMUNITY }

Max repetition count ?

10

☒ Use combined requests

NEW SNMP.WALK ITEM

A new ***walk[OID1,OID2,...]*** item has been introduced:

- ✓ Polls the SNMP indexes in bulk by using *GetBulk* request, which executes *getnext* requests and returns the data in plain text
- ✓ Performs many times better on large devices

Example:

walk[1.3.6.1.2.1]

Result:

```
1.3.6.1.2.1.1 = STRING: "<value1>"  
1.3.6.1.2.1.2 = STRING: "<value2>"  
1.3.6.1.2.1.3 = STRING: "<value3>"
```

NEW SNMP.WALK ITEM

Data from multiple OIDs can also be collected:

Example:

walk[1.3.6.1.1,1.3.6.2]

Result:

```
1.3.6.1.2.1.1 = STRING: "<value1>"
1.3.6.1.2.1.2 = STRING: "<value2>"
1.3.6.1.2.1.3 = STRING: "<value3«
1.3.6.2.1 = INTEGER: 10
1.3.6.2.2 = INTEGER: 20
```

SNMP PREPROCESSING

Text values won't suffice in most situations. What can we do next?

- ✓ New SNMP preprocessing steps have been introduced
- ✓ The goal is to transform this data into JSON usable with low-level discovery

Item

Tags

Preprocessing 1

Preprocessing steps	Name	Parameters	Custom on fail																
<div><div></div><div>1:</div></div>	<div>SNMP walk to JSON</div>	<table><thead><tr><th>Field name</th><th>OID prefix</th><th>Format</th><th>Action</th></tr></thead><tbody><tr><td>{#IFALIAS}</td><td>1.3.6.1.1</td><td>Unchanged</td><td><div>Remove</div></td></tr><tr><td>{#IFTYPE}</td><td>1.3.6.2</td><td>Unchanged</td><td><div>Remove</div></td></tr><tr><td colspan="4"><div>Add</div></td></tr></tbody></table>	Field name	OID prefix	Format	Action	{#IFALIAS}	1.3.6.1.1	Unchanged	<div>Remove</div>	{#IFTYPE}	1.3.6.2	Unchanged	<div>Remove</div>	<div>Add</div>				<div></div>
Field name	OID prefix	Format	Action																
{#IFALIAS}	1.3.6.1.1	Unchanged	<div>Remove</div>																
{#IFTYPE}	1.3.6.2	Unchanged	<div>Remove</div>																
<div>Add</div>																			

SNMP PREPROCESSING

Resulting values:

```
[
  {
    "{#SNMPINDEX}": "1.1",
    "{#IFALIAS}": «Uplink PT"
  },
  {
    "{#SNMPINDEX}": "1.2",
    "{#IFALIAS}": «Uplink FB"
  },
  {
    "{#SNMPINDEX}": "1.3",
    "{#IFALIAS}": «FE2"
  },
  {
    "{#SNMPINDEX}": "1",
    "{#IFTYPE}": «6"
  },
  {
    "{#SNMPINDEX}": "2",
    "{#IFTYPE}": «6"
  }
]
```

IMPROVED BULK DATA COLLECTION - NOTES

- ✓ *SNMP walk value* preprocessing step can be used to transform values to UTF-8 or MAC from Hex-STRING
- ✓ Custom on fail can be used to react on data collection failure
- ✓ Zabbix official templates will be reworked to use the new SNMP bulk collection approaches
- ✓ Max repetition count can be defined for *walk* requests – defines, how many values are gathered in a single bulk request
- ✓ Presentations and articles covering this feature in more detail will be available after the release of Zabbix 6.4



What's new in zabbix 6.4

STREAMING METRICS AND EVENTS OVER HTTP

STREAMING METRICS AND EVENTS TO EXTERNAL SYSTEMS

Zabbix currently supports real-time exporting of item values, trigger events and trends to files. This is not sufficient – Zabbix users require the ability to stream item values and events directly to an external endpoint via HTTP

STREAMING METRICS AND EVENTS TO EXTERNAL SYSTEMS

A new *Connectors* section has been introduced under *Administration – General*. Here users can define an external system where item values and events should be pushed to:

- ✓ Zabbix server acts as a client and pushes data to the remote endpoint
- ✓ Streaming is done over HTTP via REST API
- ✓ New configuration parameter responsible for connector workers: *StartConnectors* (0-100)

Example POST request:

```
POST /v1/history HTTP/1.1
Host: localhost:8080
Accept: */*
Accept-Encoding: deflate, gzip, br, zstd
Content-Length: 628
Content-Type: application/x-ndjson
```

```
{"host":{"host":"Zabbix server","name":"Zabbix server"},"groups":["Zabbix servers"],"item_tags":[{"tag":"foo","value":"test"}],"itemid":44457,"name":"foo","clock":1673454303,"ns":800155804,"value":0,"type":3}
{"host":{"host":"Zabbix server","name":"Zabbix server"},"groups":["Zabbix servers"],"item_tags":[{"tag":"foo","value":"test"}],"itemid":44457,"name":"foo","clock":1673454303,"ns":832290669,"value":1,"type":3}
{"host":{"host":"Zabbix server","name":"Zabbix server"},"groups":["Zabbix servers"],"item_tags":[{"tag":"bar","value":"test"}],"itemid":44458,"name":"bar","clock":1673454303,"ns":867770366,"value":123,"type":3}
```

DEFINING A CONNECTOR

Multiple connectors can be specified in the *Connectors* section:

- ✓ Select between streaming item values or trigger events
- ✓ Stream only the data matching the tag filter

New connector

*

Name

Protocol Zabbix Streaming Protocol v1.0

Data type

Item values

Trigger events

*

URL

Tag filter

And/Or

Or

tag

Equals

value

Remove

Add

CUSTOMIZING THE CONNECTOR

Each connector can be further customized:

- ✓ Maximum number of events or item values that can be sent over one HTTP connection
- ✓ Number of processes to run for this connector (1-100)
- ✓ Number of attempts (1-5)
- ✓ Timeout (1-60 seconds)
- ✓ Optional bearer token

* Max records per message **Unlimited** Custom

* Processes

* Attempts

* Timeout

Bearer

ADVANCED CONFIGURATION

HTTP proxy and authentication settings can also be provided for each connector:

- ✓ Provide HTTP proxy settings
- ✓ Select from None, Basic, NTLM, Kerberos and Digest HTTP authentication
- ✓ Customize SSL certificate settings

Advanced configuration

☒

HTTP proxy

HTTP authentication

None

▼

SSL verify peer

☐

SSL verify host

☐

SSL certificate file

SSL key file

SSL key password



What's new in zabbix 6.4

CAUSE AND SYMPTOM EVENTS

CAUSE AND SYMPTOM EVENTS

Zabbix 6.4 adds the ability to mark events as *Cause* or *Symptom* events. This allows us to filter events in way, where we can see only root cause problems, instead of being overwhelmed by symptom events.

<input type="checkbox"/>	Time ▼	Severity	Recovery time	Status	Info	Host	Problem
<input type="checkbox"/>	2022-09-09 07:44:56	Warning		PROBLEM		Zabbix server	↓ High swap space usage (less than 50% free) ?
<input type="checkbox"/> 2 ^	2022-09-07 15:26:10	Average		PROBLEM		Apache	Interface eno1: Link down
<input type="checkbox"/> ↗	2022-09-07 15:26:06	Average		PROBLEM		Apache	Service is down
<input type="checkbox"/> ↗	2022-09-07 15:26:06	Average		PROBLEM		Apache	Failed to fetch status page
<input type="checkbox"/> ↗	2022-09-07 15:26:06	Average		PROBLEM		Apache	Service is down
<input type="checkbox"/> ↗	2022-09-07 15:26:06	Average		PROBLEM		Apache	Failed to fetch status page
<input type="checkbox"/> Symptom	2022-09-09 07:44:56	Information		PROBLEM		Zabbix server	System name has changed

CAUSE AND SYMPTOM EVENTS

- ✓ Events can now be marked as cause or symptom events
- ✓ By default, all new problems are considered as cause events

The screenshot shows a Zabbix problem list interface. A table displays five problem entries. The first two are selected with checkboxes. A context menu is open over the second entry, showing options like 'VIEW', 'CONFIGURATION', 'PROBLEM', and 'LINKS'. The 'Mark selected as symptoms' option is highlighted with a red rectangle. Below the table, a 'Mass update' button is visible.

Selected	Time	Severity	Problem Type	Host	Problem Description	Duration	Resolved	Tags
<input type="checkbox"/>	2022-09-07 15:26:10	Average	PROBLEM	Apache	Interface eno1: Link down	12d 21h 12m	No	
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average	PROBLEM	Apache	Service is down	12m	No	
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average	PROBLEM	Apache	Failed to fetch status page	12m	No	
<input type="checkbox"/>	2022-09-09 07:44:50	Information	PROBLEM	Zabbix server	System name has changed	3m	No	class: os component: memory component: storage ...

2 selected Mass update

Displaying 5 of 5 found

CAUSE AND SYMPTOM EVENTS

Multiple new macros have been introduced to present cause events:

- ✓ Cause event name - `{EVENT.CAUSE.NAME}`
- ✓ Cause event tags - `{EVENT.CAUSE.Tags}`
- ✓ Cause event severity - `{EVENT.CAUSE.SEVERITY}`
- ✓ Cause event status - `{EVENT.CAUSE.STATUS}`
- ✓ Cause event value - `{EVENT.CAUSE.VALUE}`
- ✓ ...And many others

These macros can be used in:

- ✓ Trigger-based notifications and commants
- ✓ Problem update notifications and commands
- ✓ Manual event action scripts

CAUSE AND SYMPTOM EVENTS – API CHANGES

Multiple event related API calls now support filtering by cause and symptom events:

- ✓ *event.get* and *problem.get* – new *symptom* parameter (true – symptom, false – cause)
- ✓ Cause event ID can also be returned in the request response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "eventid": "9695",
      "source": "0",
      "object": "0",
      "objectid": "13926",
      "clock": "1347970410",
      "value": "1",
      "acknowledged": "1",
      "ns": "413316245",
      "name": "MySQL is down",
      "severity": "5",
      "r_eventid": "0",
      "c_eventid": "0",
      "correlationid": "0",
      "userid": "0",
      "cause_eventid": "0",
      "opdata": "",
      "acknowledges": [
        {
```



What's new in zabbix 6.4

BACKWARD COMPATIBLE ZABBIX PROXIES

BACKWARD COMPATIBLE ZABBIX PROXIES

To improve the Zabbix component upgrade workflows (especially for large environments) proxies are now backward compatible within the same LTS release cycle:

- ✓ Proxy is fully supported if it has the same major version as the Zabbix server
- ✓ For non-LTS versions (e.g.: Zabbix server 6.4), proxy is marked as ***outdated*** if its major version is older than the Zabbix server, but within the same LTS release (e.g.: Zabbix proxy 6.0/6.2)
- ✓ For LTS versions (e.g.: Zabbix server 7.0), proxy is marked as *outdated* if its major version is older than the Zabbix server, but not older than the previous LTS release (e.g.: Zabbix proxy 6.0)
- ✓ Outdated proxies still support data collection and remote command execution
- ✓ In other scenarios, the proxy becomes ***not supported***

EXAMPLES

Server version	Current proxy version	Outdated proxy version	Unsupported proxy version
6.4	6.4	6.0, 6.2	Older than 6.0; newer than 6.4
7.0	7.0	6.0, 6.2, 6.4	Older than 6.0; newer than 7.0
7.2	7.2	7.0	Older than 7.0; newer than 7.2

BACKWARD COMPATIBLE ZABBIX 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



What's new in zabbix 6.4

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

SIMPLIFY TEMPLATES BY REMOVING NESTING

Starting from Zabbix 6.4, template nesting has been removed to have the ability to properly implement template versioning:

- ✓ During the upgrade all the nested templates will be moved to the highest-level parent template
- ✓ Importing templates that contain nested templates will import every template contained in the import file, but the template linkages will not be preserved

We are currently working on a solution that will enable users to modify similar elements on multiple templates in one go (Expected in Zabbix 7.0)



What's new in zabbix 6.4

SIMPLIFY CREATION OF DASHBOARD WIDGETS

SIMPLIFY CUSTOM WIDGET CREATION

Many community members have created their own custom frontend modules and widgets. Our goal was to endorse this further by streamlining the widget creation process.

To achieve this, we had to implement the following in Zabbix 6.4:

- ✓ Make existing official widgets simpler to understand and use as examples
- ✓ Widget metadata should be available as a single "data pack"
- ✓ Adding new widgets should be as simple as adding new files, without changing the existing files
- ✓ Ideally, widgets should also be modular
- ✓ Widget list should be easy to list and understand in the Zabbix frontend
- ✓ Provide information to our community on how to create a custom widget

WIDGETS CONVERTED TO FRONTEND MODULES

All of the official Zabbix widgets have been converted to modules and are available in the *Modules* section

Z

Modules ▾

?

Scan directory

Filter

Name

Status

Any

Enabled

Disabled

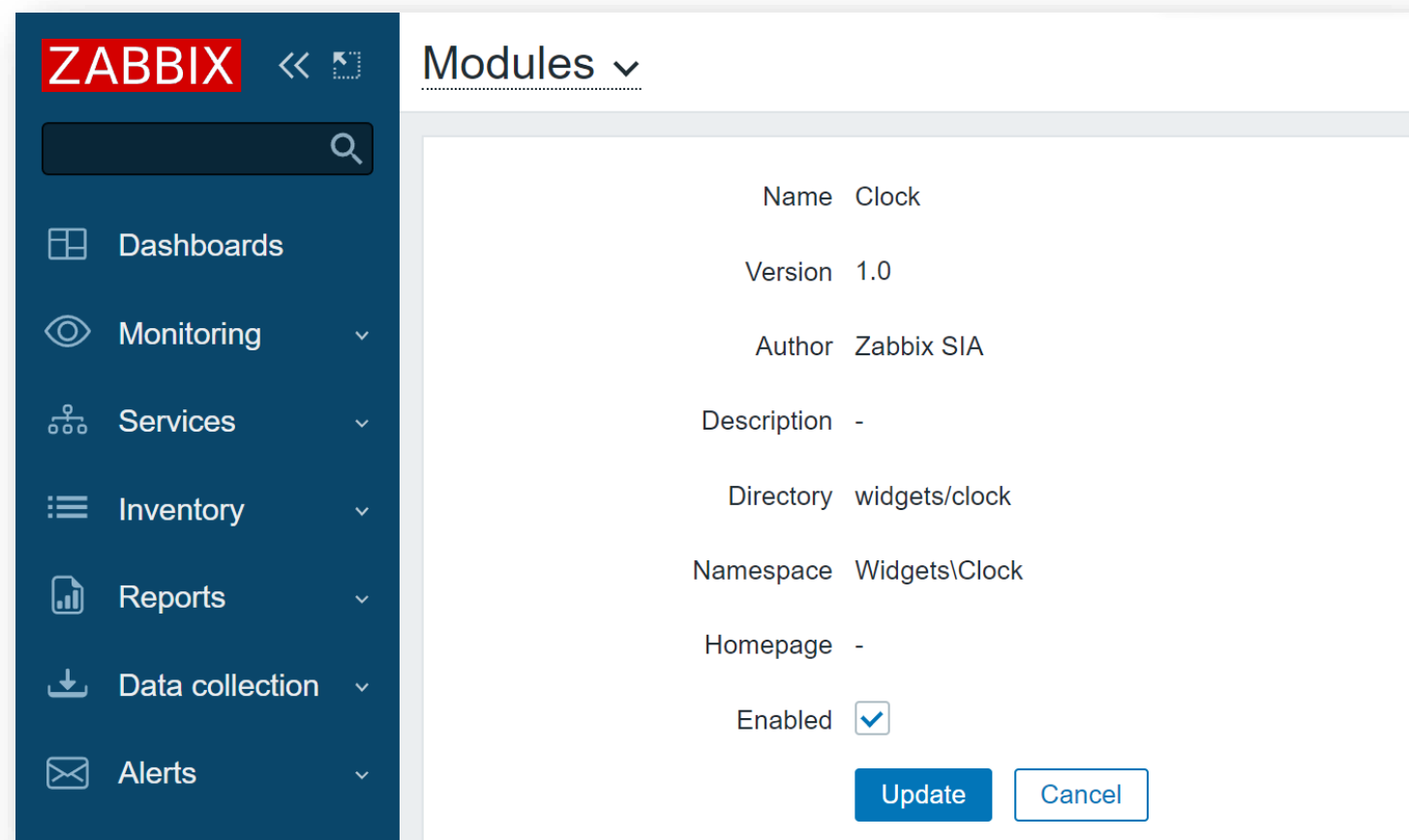
Apply

Reset

<input type="checkbox"/> Name ▲	Version	Author	Description	Status
<input type="checkbox"/> Action log	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Clock	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Data overview	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Discovery status	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Favorite graphs	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Favorite maps	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Geomap	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Graph	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Graph (classic)	1.0	Zabbix SIA		Enabled
<input type="checkbox"/> Graph prototype	1.0	Zabbix SIA		Enabled

SIMPLIFY CREATION OF DASHBOARD WIDGETS

- ✓ Built in widgets are moved to *ui/widgets directory*
- ✓ Custom widgets should reside in *ui/modules/<widget>*
- ✓ To support widgets, modules can load custom JavaScript/CSS/Images
- ✓ As soon as the widget is placed, clicking the *Scan directory* button in the *Modules* section will detect the new widget
- ✓ Additional information about the widget can be seen in the widget properties in the frontend



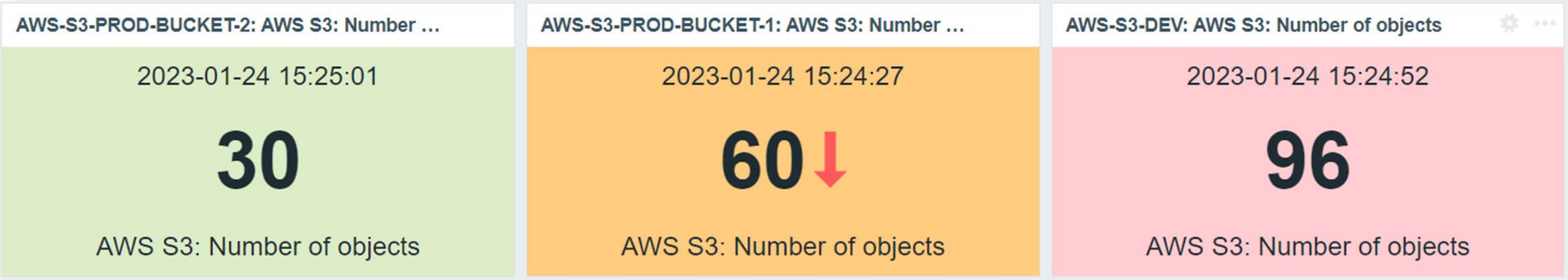


What's new in zabbix 6.4

OTHER CHANGES AND IMPROVEMENTS

DYNAMIC ITEM VALUE THRESHOLDS

The item value widget now provides the option to define different thresholds and change the background color accordingly:



The configuration panel allows users to customize the dynamic item value widget. It includes options for changing the indicator, background color, and defining thresholds.

Change indicator: Three options are available: a green up arrow (selected), a red down arrow, and a green double arrow. Each option has a 'D' button next to it.

Background color: A color selection box is shown, currently set to light green.

Thresholds: A table lists defined thresholds with their corresponding background colors and actions.

Threshold	Action
50	Remove
90	Remove

[Add](#)

TRIGGER URL NAMES

Zabbix 6.4 contains an additional way of adding URLs to trigger events

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

The screenshot displays the Zabbix 6.4 interface. A context menu is open over a trigger event, showing options like VIEW, CONFIGURATION, and LINKS. The 'Internal' link is selected, and the 'Open incident' option is highlighted with a red box. The background shows a table of trigger events with columns for Time, Severity, Recovery time, Status, Info, Host, Problem, Duration, Ack, Actions, and Tags.

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 enviro...
09:00										
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...

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>

CUSTOM LINKS

Custom labeled URLs can be mapped to Host and Event context menus

- ✓ Same selection of settings as for other scripts

ZABBIX

Dashboards

Monitoring

Services

Inventory

Reports

Data collection

Alerts

Actions

Media types

Scripts

Users

Administration

* Name

Open incident

Scope

Action operation

Manual host action

Manual event action

Menu path

Internal/Incidents

Type

URL

Webhook

Script

SSH

Telnet

IPMI

* URL

http://<my URL>

Open in a new window

☒

Description

Open the incidents page

Host group

All

User group

All

Required host permissions

Read

Write

Enable confirmation

☐

Confirmation text

Test confirmation

Update

Clone

Delete

Cancel

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

▼

INSTANT REFRESH OF ACTIVE CHECKS

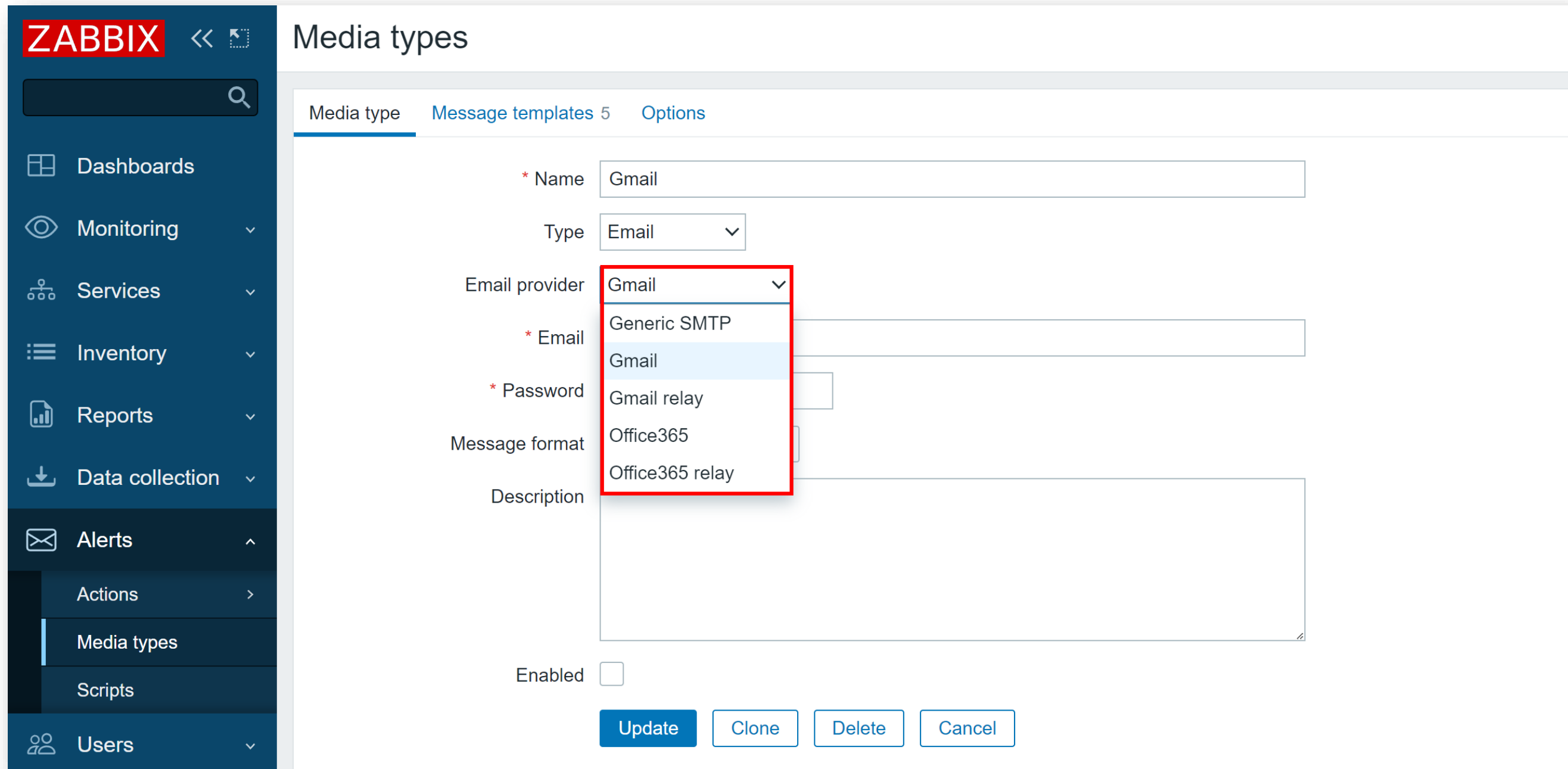
Instead of receiving the full configuration copy every 2 minutes (old behavior), in Zabbix 6.4 active agent receives configuration copy only when changes have been performed

- ✓ *RefreshActiveChecks* parameter now supports a range 1-86400 (old range: 60-3600)
- ✓ This behavior is supported both by Zabbix agent and Zabbix agent2
- ✓ We have introduced an underlying *config_revision* comparison logic, which is used to check for configuration changes

IMPROVE 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 a media type named 'Gmail'. The form includes fields for Name, Type (set to 'Email'), Email provider (set to '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 << [icon] 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

NEW TEMPLATES

Zabbix 6.4 comes with a multiple new templates as well as updates for existing templates:

- ✓ AWS RDS instance By HTTP
- ✓ AWS S3 bucket by HTTP
- ✓ Azure by HTTP
- ✓ OPNsense by SNMP

The templates Windows by Zabbix agent and Windows by Zabbix agent active have been updated and now include the *system.sw.os* item and a new trigger for monitoring system version changes.

OTHER CHANGES

Multiple other changes have been introduced

- ✔ SQLite3 Zabbix proxies now automatically recreate the SQLite3 databases file during an upgrade
- ✔ A host status filter (enabled/disabled) has been added under *Data collection – Hosts*
- ✔ Additional filtering options have been added to the Action log
- ✔ Action log now supports import to CSV
- ✔ Multiple context menu improvements to Host, Item and Event context menus
- ✔ Old password verification is now required when changing your internal Zabbix user password
- ✔ When configuring a Graph widget, it is now possible to rename data sets by customizing the Data set label
- ✔ Value cache optimizations
- ✔ Added commands to enable profiling of rwlocks/mutexes (for debugging)



QUESTIONS?

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