



What's new in

ZABBIX 6.2

all our microphones are muted

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

use Chat for discussion, networking or applause

Zabbix 6.2

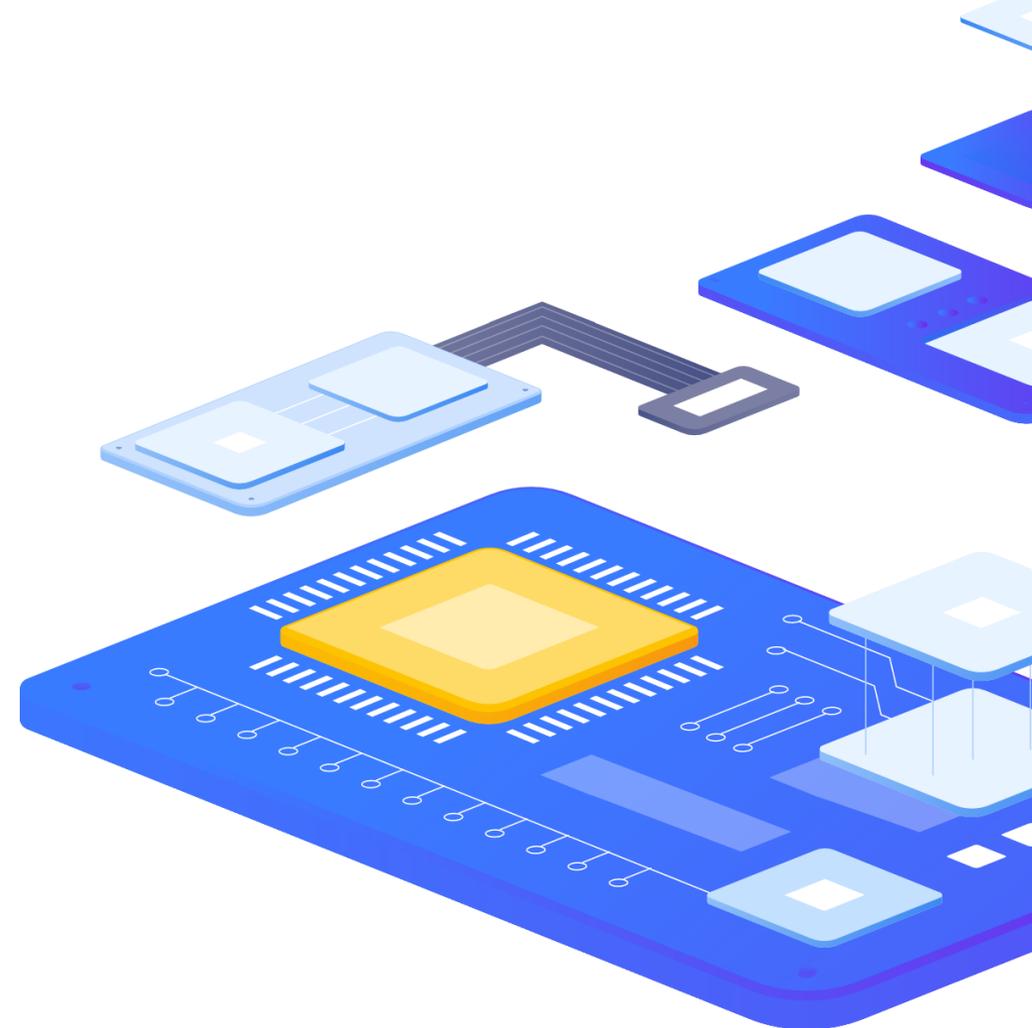
Zabbix 6.2

Zabbix 6.2 provides features that can greatly improve configuration management and performance on large Zabbix instances.

- › In addition, Zabbix 6.2 improves the flexibility of multiple existing features, thus supporting many new use cases.

Zabbix 6.2 focuses on:

- › Improving configuration management and performance
- › Improving UX and ease of use of Zabbix features
- › Providing additional security and authentication features
- › Greatly improving the flexibility for hosts discovered from prototypes
- › Delivering new highly requested templates and integrations



1

Suppress problems indefinitely or
until a specific point in time

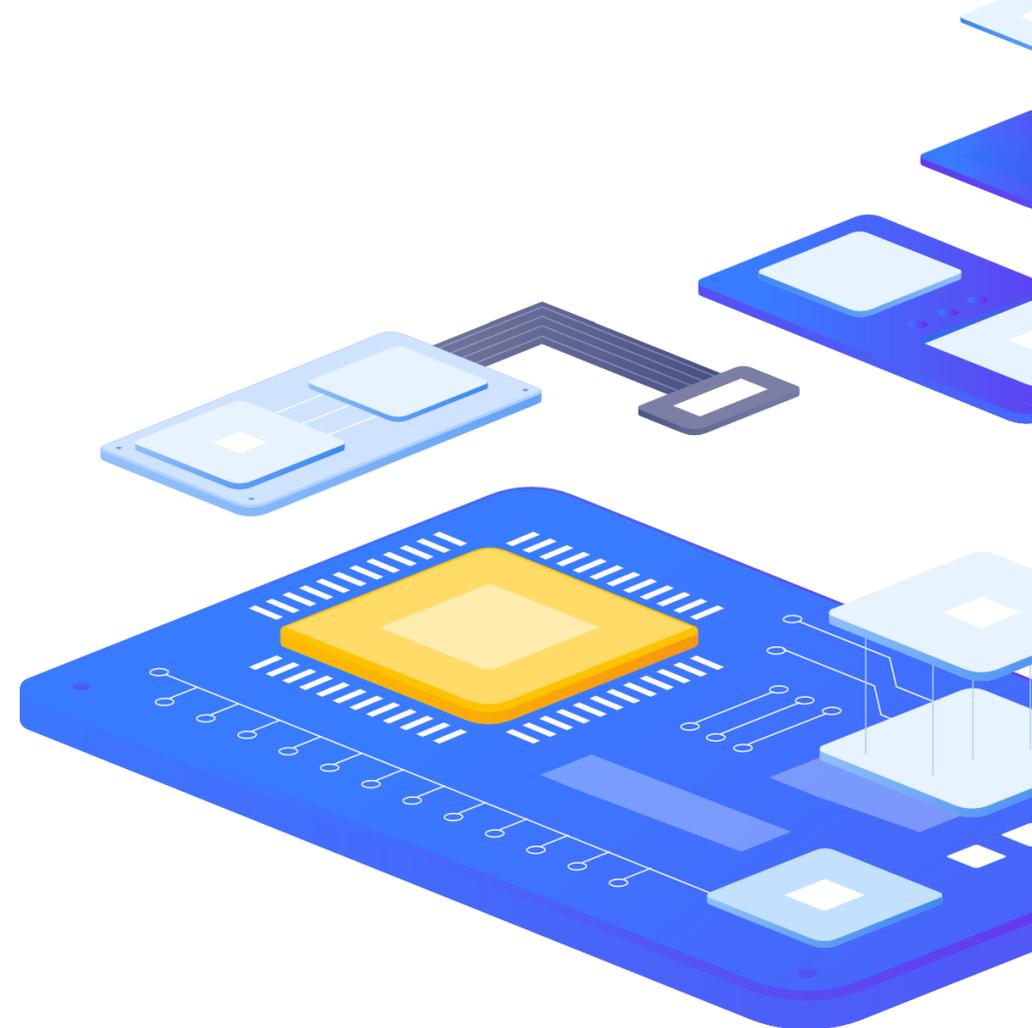


Zabbix 6.2

Suppress unwanted problems

Zabbix users can now manually suppress unwanted or expected problems:

- › Suppress problems until a specific point in time
- › Suppress problems indefinitely, until the suppression is removed
- › Suppress a single problem or together with the related problems
- › The action operations related to the suppressed problems will be paused until the problems are unsuppressed
- › Choose to hide or display suppressed problems in the Problems section

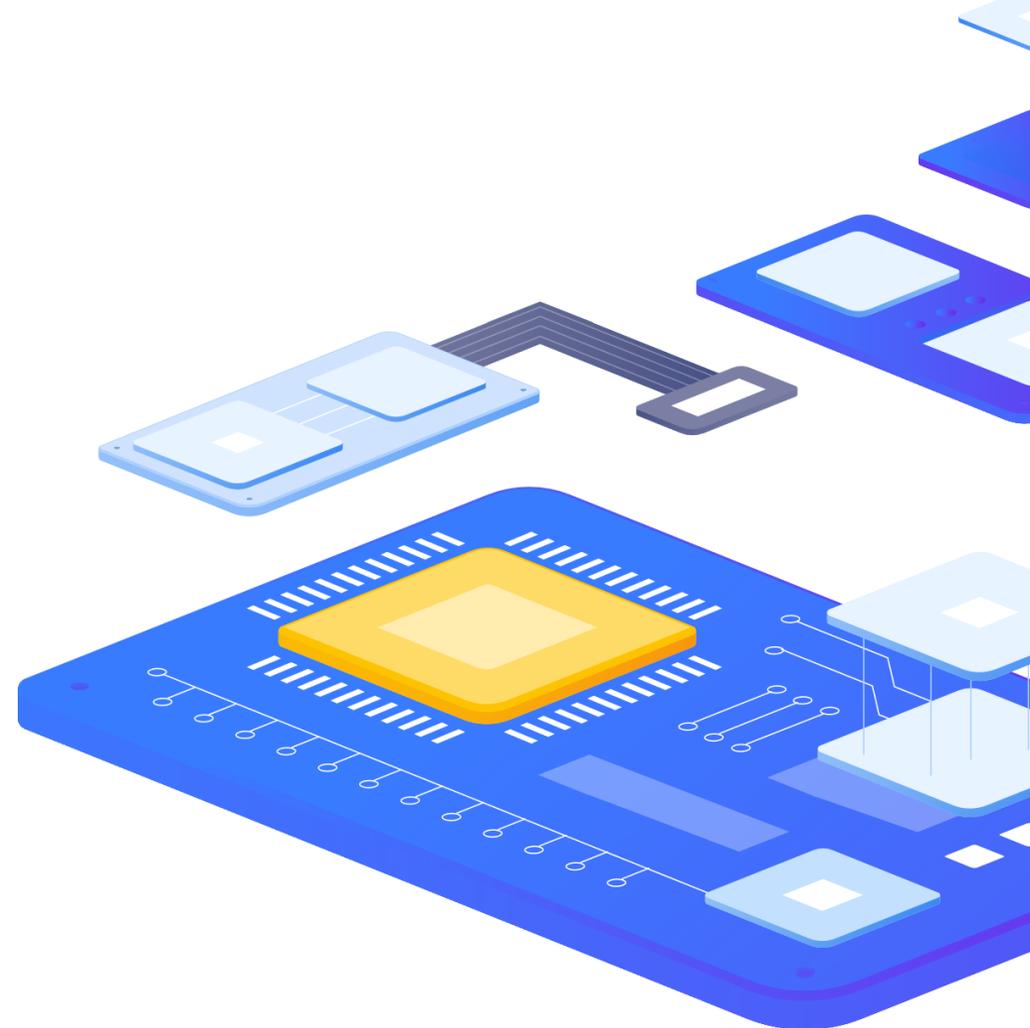


Zabbix 6.2

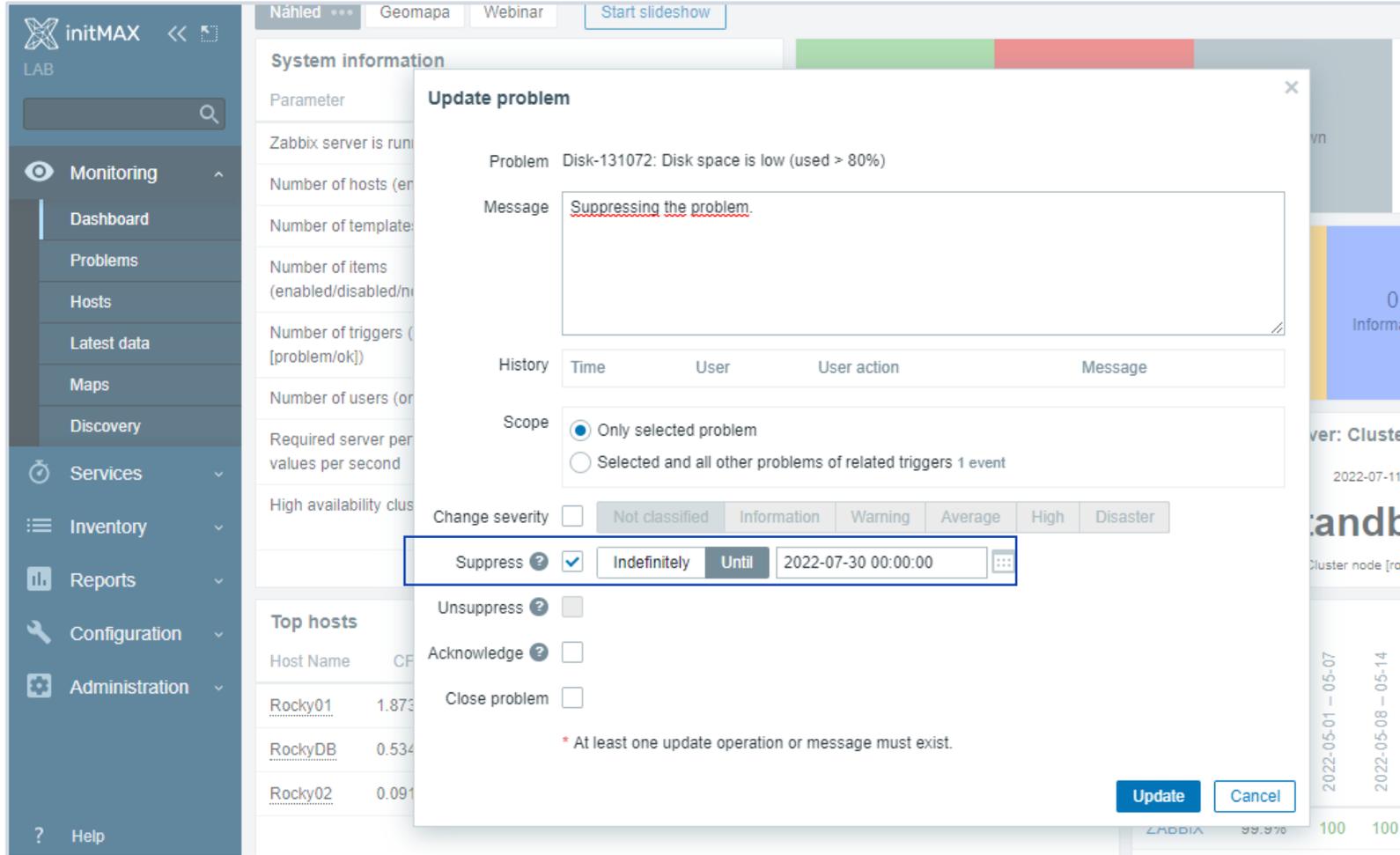
Suppress unwanted problems

Problem suppression can be configured until a specific date or by using the relative time format:

- › Suppress problem until a specific date
- › Suppress problem until some time from now has passed
- › Suppress problem until the end of the current time period (day/week/month)



Suppress until a specific date



The screenshot shows the Zabbix 6.2 interface with the 'Update problem' dialog box open. The dialog is titled 'Update problem' and contains the following fields and options:

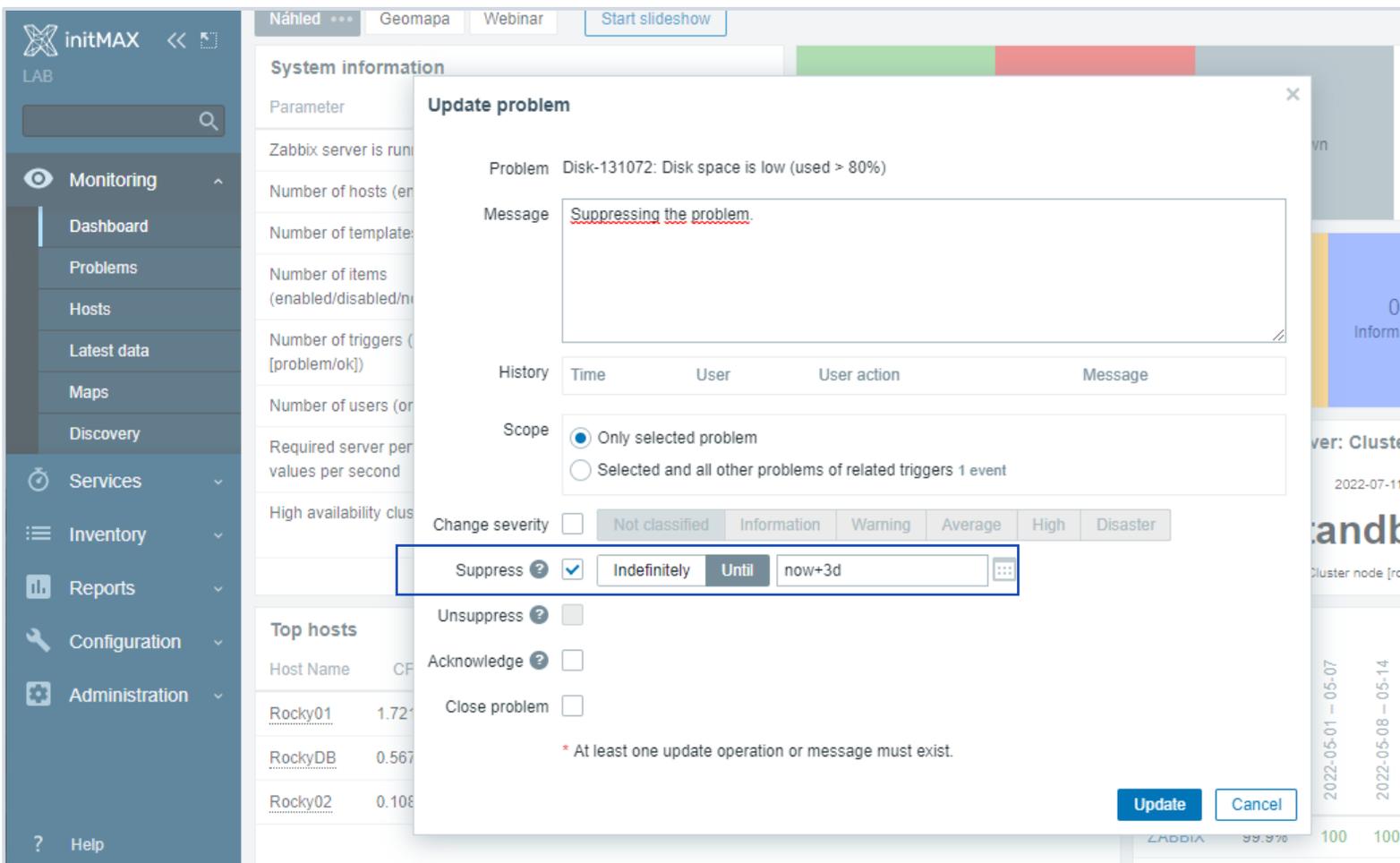
- Problem:** Disk-131072: Disk space is low (used > 80%)
- Message:** Suppressing the problem.
- History:** A table with columns: Time, User, User action, Message.
- Scope:** Only selected problem, Selected and all other problems of related triggers 1 event
- Change severity:** Not classified, Information, Warning, Average, High, Disaster
- Suppress:** Indefinitely, **Until**, 2022-07-30 00:00:00
- Unsuppress:**
- Acknowledge:**
- Close problem:**

* At least one update operation or message must exist.

Buttons: Update, Cancel

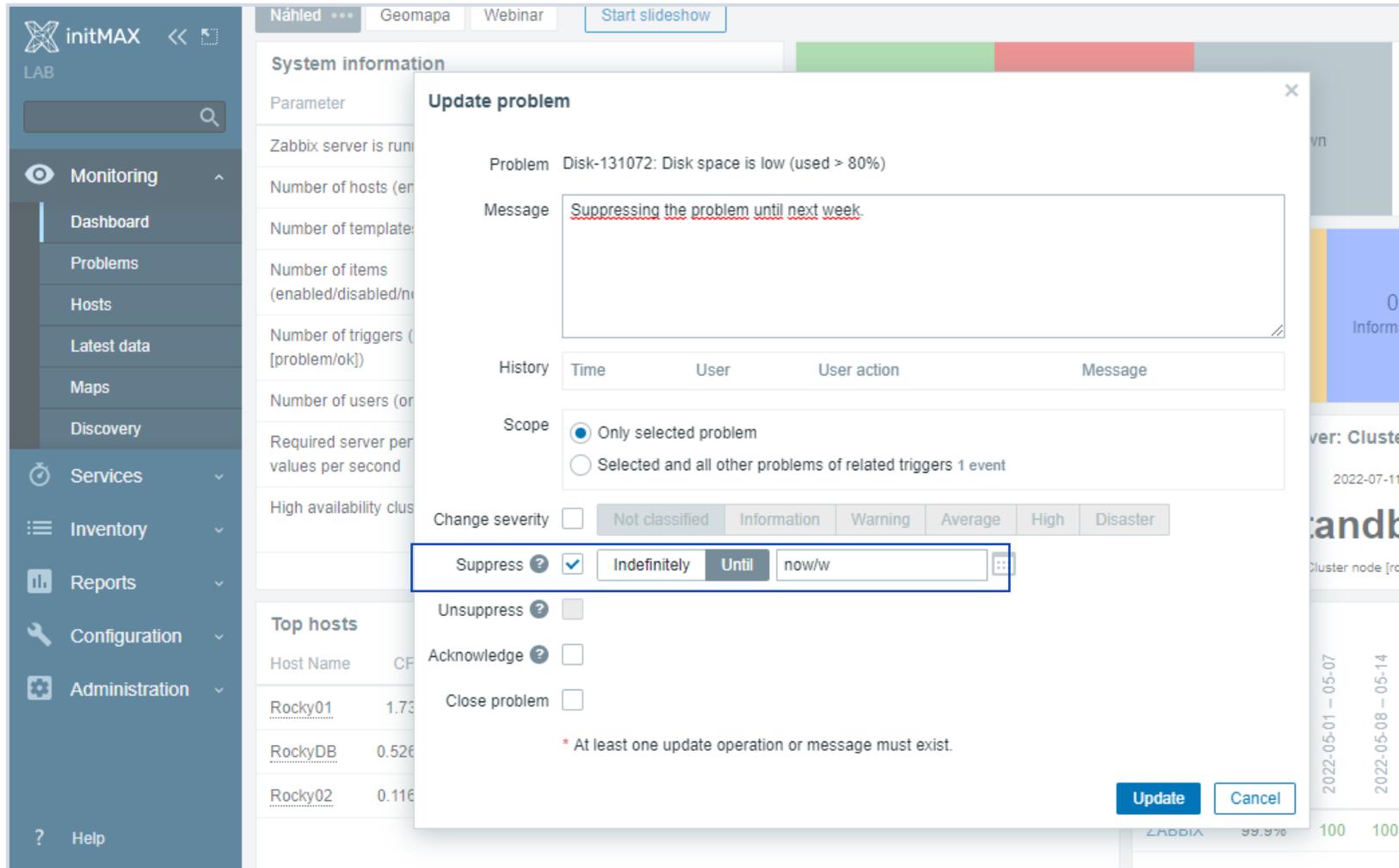
Zabbix 6.2

Suppress until some time from now



The screenshot displays the Zabbix 6.2 web interface. On the left is a navigation sidebar with sections like Monitoring, Services, Inventory, Reports, Configuration, and Administration. The main content area shows system information and a list of top hosts. A modal dialog titled "Update problem" is open, showing details for a problem: "Disk-131072: Disk space is low (used > 80%)". The "Message" field contains the text "Suppressing the problem.". Below this, there are options for "History" and "Scope". The "Scope" section has two radio buttons: "Only selected problem" (which is selected) and "Selected and all other problems of related triggers 1 event". Under "Change severity", there are several buttons: "Not classified", "Information", "Warning", "Average", "High", and "Disaster". A "Suppress" checkbox is checked, and next to it is a dropdown menu set to "Indefinitely" with "Until" selected and "now+3d" entered in the adjacent input field. Below these are "Unsuppress", "Acknowledge", and "Close problem" checkboxes. At the bottom of the dialog, there is a note: "* At least one update operation or message must exist." and two buttons: "Update" and "Cancel".

Suppress until the end of the current period



The screenshot shows the Zabbix 6.2 interface with the 'Update problem' dialog box open. The dialog is for a problem titled 'Disk-131072: Disk space is low (used > 80%)'. The 'Message' field contains the text 'Suppressing the problem until next week.'. The 'Suppress' checkbox is checked, and the 'Until' option is selected in the suppression duration dropdown. The 'Update' button is highlighted.

Update problem

Problem: Disk-131072: Disk space is low (used > 80%)

Message: Suppressing the problem until next week.

History:

Time	User	User action	Message
------	------	-------------	---------

Scope:

- Only selected problem
- Selected and all other problems of related triggers 1 event

Change severity: Not classified Information Warning Average High Disaster

Suppress Indefinitely **Until** now/w

Unsuppress

Acknowledge

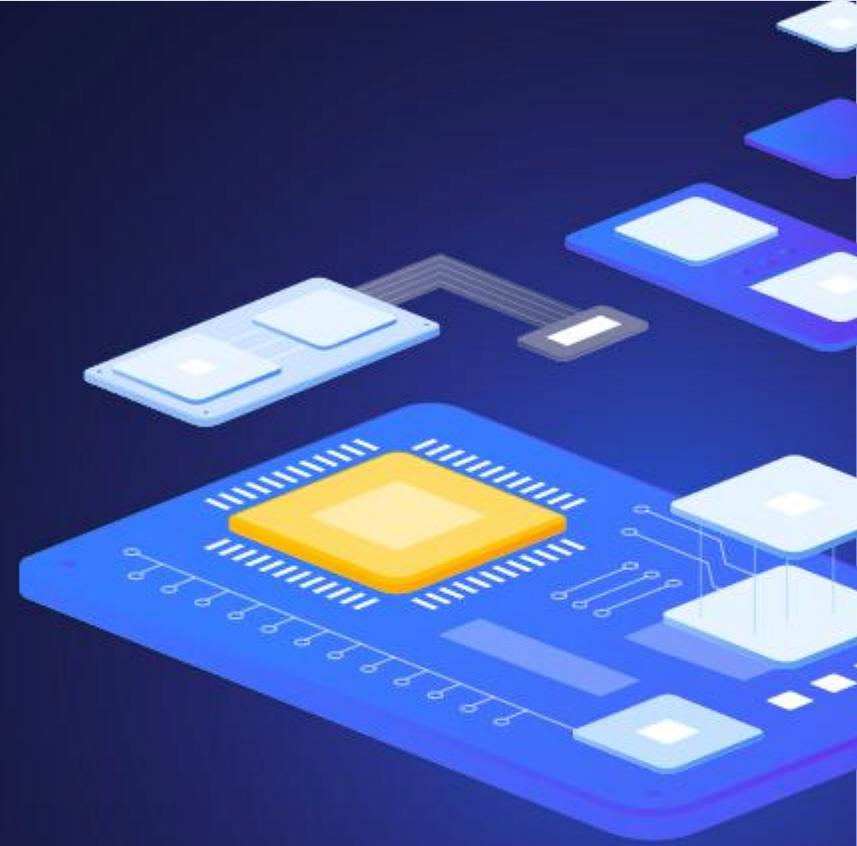
Close problem

* At least one update operation or message must exist.

Update Cancel

2

Security improvements

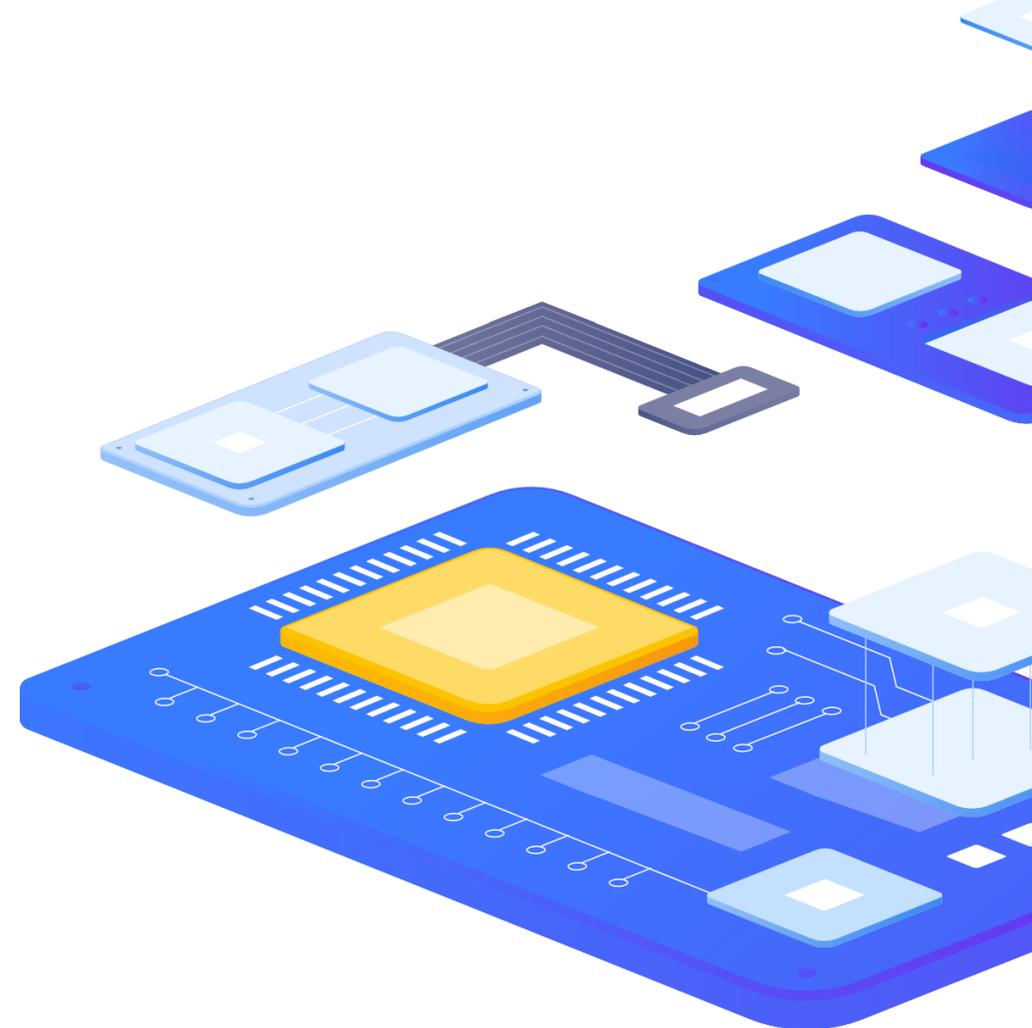


Zabbix 6.2

Cyberark vault Support

In addition to the previously supported HashiCorp vault, Zabbix 6.2 adds official support for secret storage in the CyberArk vault:

- › Select between CyberArk and HashiCorp vaults
- › Encrypt connections to the CyberArk vault with vault certificates
- › Secure your database credentials and user macros
- › It is possible to configure and retrieve the Zabbix vault provider via Zabbix API
- › Configurable in the Zabbix server or Zabbix proxy configuration file



Zabbix 6.2

Openssl 3.0 support

OpenSSL 3.0.x support has been added to Zabbix 6.2 and Zabbix 6.0.4:

- ▶ Supported by Zabbix server, Zabbix proxy, Zabbix agent and Zabbix agent2
- ▶ The change does not affect the frontend encryption, which uses its own openssl-php package
- ▶ The change does not affect Zabbix Java gateway JMX encrypted connections

Zabbix 6.2

MD5 cryptography has been dropped

Support of MD5 cryptography has been dropped completely

- ▶ Zabbix 5.0 was using bcrypt, but still supporting old md5 passwords
- ▶ Passwords were converted upon the first user login
- ▶ If you're upgrading from Zabbix versions before 5.0, users with passwords hashed by MD5 won't be able to log in

3

AWS EC2 monitoring

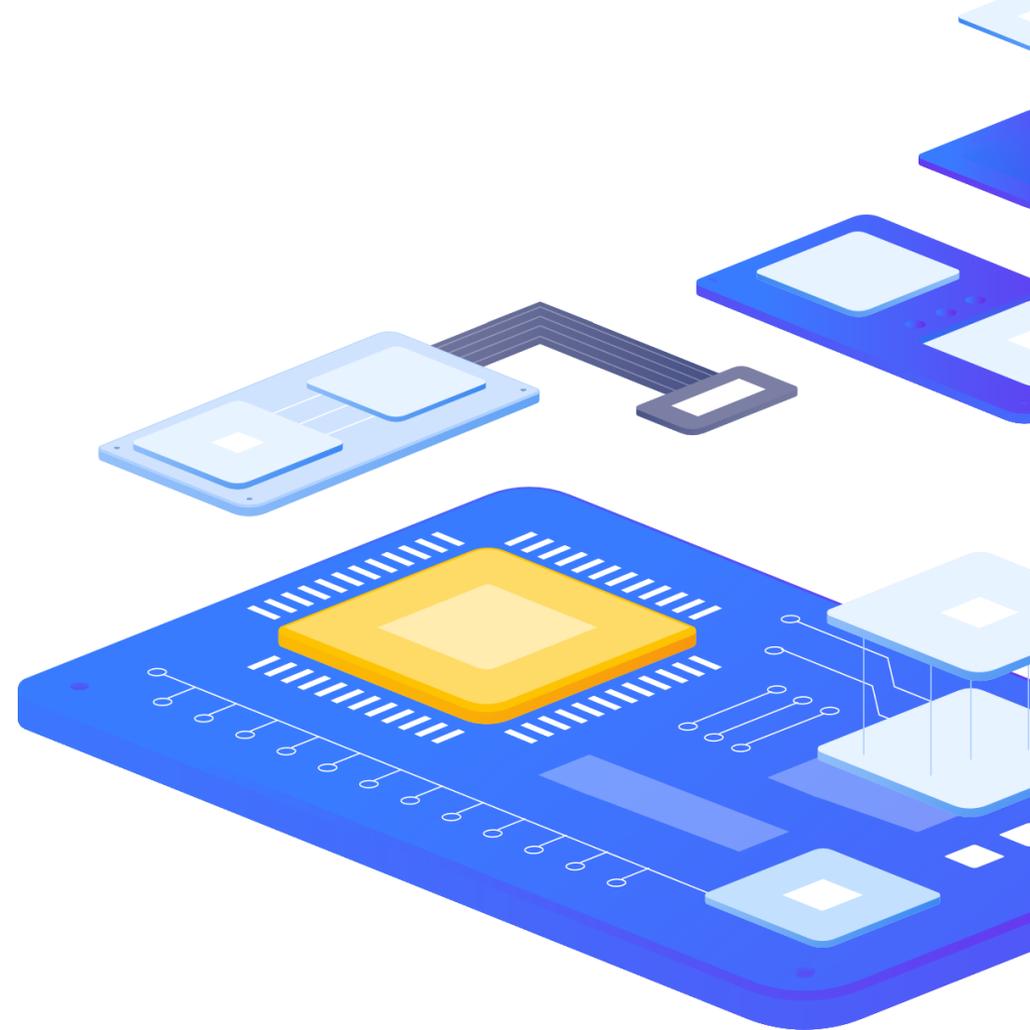


Zabbix 6.2

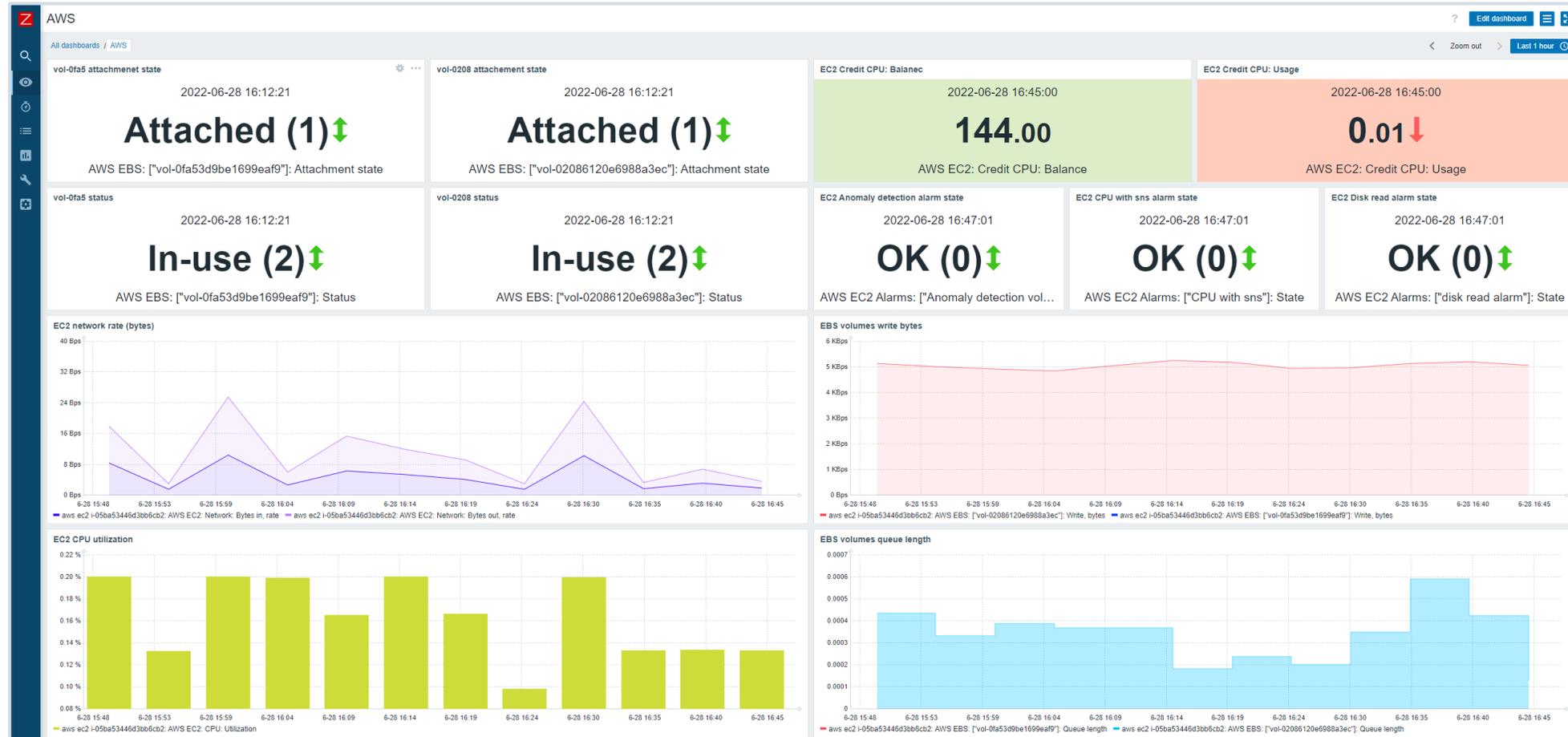
Official AWS EC2 Template

Monitor your AWS EC2 instance and the attached AWS EBS volumes with the official Zabbix AWS EC2 template:

- › Monitor AWS EC2 CPU, network, Disk, status and many other metrics
- › Discover and monitor AWS EBS volumes
- › Discover and monitor AWS EC2 alarms and react to alarm status changes



Official AWS EC2 Template



Zabbix 6.2

Official AWS EC2 Template

All templates / AWS EC2 by HTTP Items 29 Triggers 10 Graphs 4 Dashboards Discovery rules 2 Web scenarios Filter

<input type="checkbox"/>	Name ▲	Triggers	Key	Interval	History	Trends	Type	Status	Tags
<input type="checkbox"/>	... AWS CloudWatch: Get instance alarms data		aws.ec2.get_alarms	0s	0		Script	Enabled	component: raw
<input type="checkbox"/>	... AWS EBS: Get volumes data		aws.ec2.get_volumes	5m	0		Script	Enabled	component: raw
<input type="checkbox"/>	... AWS EC2: Get metrics data: AWS EC2: CPU: Utilization	Triggers 1	aws.ec2.cpu_utilization		7d	365d	Dependent item	Enabled	component: cpu
<input type="checkbox"/>	... AWS EC2: Get metrics data: AWS EC2: Credit CPU: Balance	Triggers 1	aws.ec2.cpu.credit_balance		7d	365d	Dependent item	Enabled	component: cpu component: credit
<input type="checkbox"/>	... AWS EC2: Get metrics data: AWS EC2: Credit CPU: Surplus balance		aws.ec2.cpu.surplus_credit_balance		7d	365d	Dependent item	Enabled	component: cpu component: credit
<input type="checkbox"/>	... AWS EC2: Get metrics data: AWS EC2: Credit CPU: Surplus charged	Triggers 1	aws.ec2.cpu.surplus_credit_charged		7d	365d	Dependent item	Enabled	component: cpu component: credit
<input type="checkbox"/>	... AWS EC2: Get metrics data: AWS EC2: Credit CPU: Usage		aws.ec2.cpu.credit_usage		7d	365d	Dependent item	Enabled	component: cpu component: credit
<input type="checkbox"/>	... AWS EC2: Get metrics data: AWS EC2: Disk: Read, rate		aws.ec2.disk.read_ops.rate		7d	365d	Dependent item	Enabled	component: disk
<input type="checkbox"/>	... AWS EC2: Get metrics data: AWS EC2: Disk: Read bytes, rate		aws.ec2.disk.read_bytes.rate		7d	365d	Dependent item	Enabled	component: disk

4

Synchronize Zabbix proxy configuration from the Zabbix frontend



Zabbix 6.2

Synchronize proxy Configuration

Configuration for your proxies can be instantly reloaded from Zabbix frontend:

- ▶ Zabbix proxy configuration can now be refreshed from the Administration - Proxies section
- ▶ Zabbix proxy configuration can be refreshed from the command line directly on the Zabbix server
- ▶ Zabbix proxy configuration can be refreshed by using Zabbix API
- ▶ Central configuration refresh is supported by both active and passive proxies

From command-line using command `zabbix_server -R proxy_config_cache_reload`

- ▶ Without arguments for all proxies (using appropriate way for each type of proxy)

```
zabbix_server -R proxy_config_cache_reload
```

- ▶ For a single proxy

```
zabbix_server -R proxy_config_cache_reload="Passive proxy"
```

- ▶ With proxy names as arguments

```
zabbix_server -R proxy_config_cache_reload="Active proxy,Passive proxy"
```

Zabbix 6.2

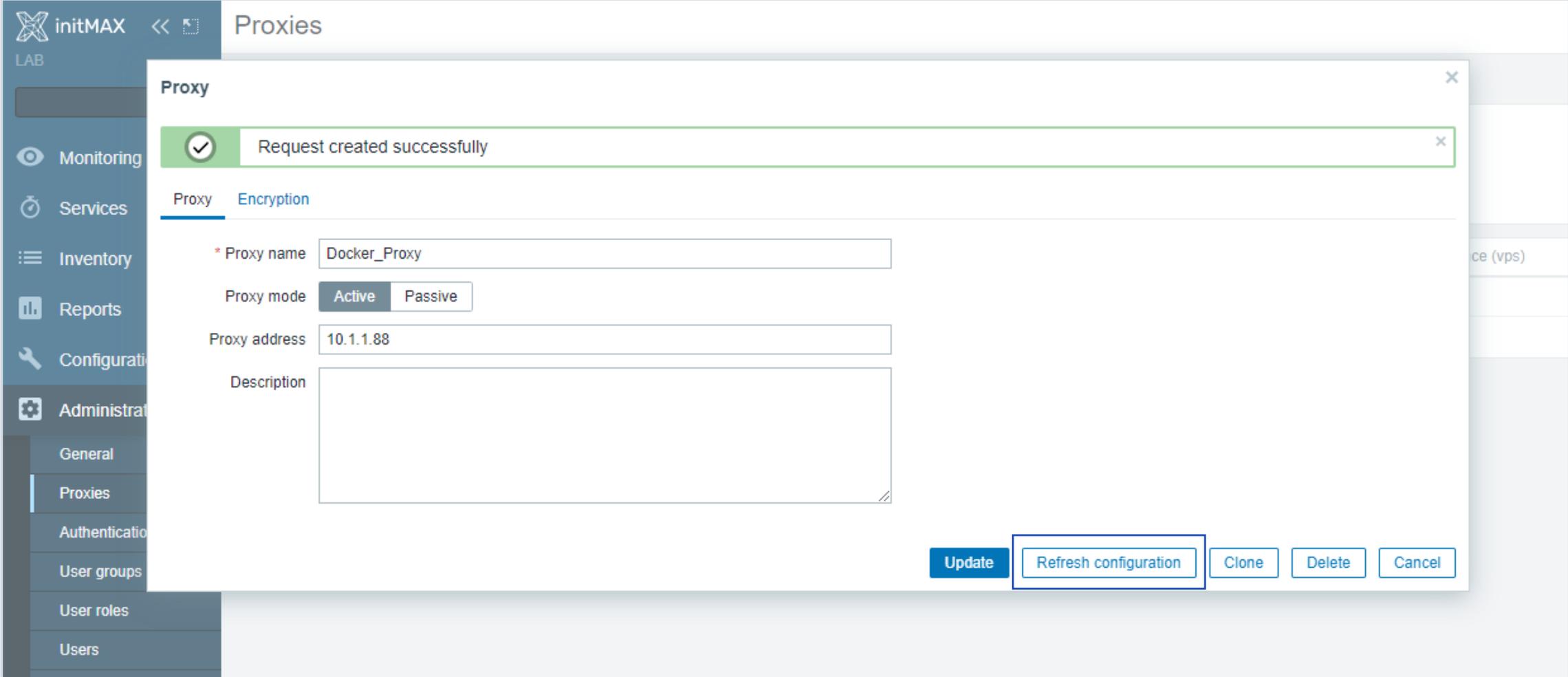
Synchronize proxy Configuration

Proxy configuration reload is realized using tasks:

- ▶ New task is created for each proxy
 - ▶ If proxy doesn't exist failed to reload configuration cache on proxy is reported
 - ▶ If proxy type is passive server will use proxy pollers to process the task
 - ▶ If proxy type is active a new task is created for this proxy
- ▶ Proxy configuration update tasks are logged in the audit log

Time	User	IP	Resource	ID	Action	Recordset ID	Details
2022-07-07 16:09:40	System		Proxy	10531	Configuration refresh	cl5b1q1c8000f7z5g31x5uida	Description: Passive proxy
2022-07-07 16:09:40	System		Proxy	10530	Configuration refresh	cl5b1q1c8000f7z5g31x5uida	Description: Active proxy

Synchronize proxy Configuration



The screenshot shows the Zabbix 6.2 web interface for configuring a proxy. The left sidebar contains navigation options: Monitoring, Services, Inventory, Reports, Configuration, Administration, General, Proxies, Authentication, User groups, User roles, and Users. The main content area is titled "Proxies" and displays a "Proxy" configuration form. A green notification bar at the top of the form indicates "Request created successfully". The form has two tabs: "Proxy" (selected) and "Encryption". The "Proxy" tab contains the following fields:

- * Proxy name:** Docker_Proxy
- Proxy mode:** Active (selected), Passive
- Proxy address:** 10.1.1.88
- Description:** (empty text area)

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

5

More control over
your discovered hosts



Zabbix 6.2

Control hosts created from prototypes

Hosts discovered from host prototypes now support manual editing of templates, tags and user macros:

- › Link additional templates to hosts discovered from host prototypes
- › Create and modify user macros on hosts created from host prototypes
- › Additional tags can now be created on hosts created from host prototypes
- › API host methods have been extended to support manual linkage of templates to hosts created from host prototypes
- › API host methods have been extended to support adding or modifying tags and user macros to hosts created from host prototypes

This set of features greatly improves already existing features that utilize host prototypes, for example VMware monitoring.



Zabbix 6.2

Control hosts created from prototypes

- ▶ Monitor your discovered VMware hosts with Zabbix agent:

Host

Host IPMI Tags Macros 4 Inventory Encryption

Discovered by [Discover VMware VMs](#)

* Host name

Visible name

Templates ?

Name	Action
VMware Guest (linked by host discovery)	
VMware Guest VM state	Unlink Unlink and clear

* Host groups

<input type="text" value="Applications"/>	<input type="text" value="Datacenter/vSAN VMS (vm)"/>	<input type="button" value="Select"/>
<input type="text" value="esx7-02-host.zabbix.sandbox"/>	<input type="text" value="vSAN (vm)"/>	

Interfaces	Type	IP address	DNS name	Connect to	Port	Default
Agent		<input type="text" value="192.168.13.77"/>	<input type="text"/>	<input type="radio"/> IP <input type="radio"/> DNS	<input type="text" value="10050"/>	<input checked="" type="radio"/>

Zabbix 6.2

Control hosts created from prototypes

Host ? ×

Host IPMI Tags **Macros 5** Inventory Encryption

Host macros Inherited and host macros

Macro	Value		Description	
{VMWARE.PASSWORD}	Zabbix#33	T	description	Change Remove (created by host discovery)
{VMWARE.URL}	https://192.168.13.67/s	T	description	Change Remove (created by host discovery)
{VMWARE.USERNAME}	administrator@zabbix.sandbox	T	description	Change Remove (created by host discovery)
{VMWARE.VM.UUID}	52abf48f-05f4-8924-89b4-4fb7a3efd051	T	UUID of guest virtual machine.	Change Remove (created by host discovery)
{CPU.THRESHOLD}	10	T	CPU load threshold	Remove

[Add](#)

Host ? ×

Host IPMI **Tags 1** Macros 4 Inventory Encryption

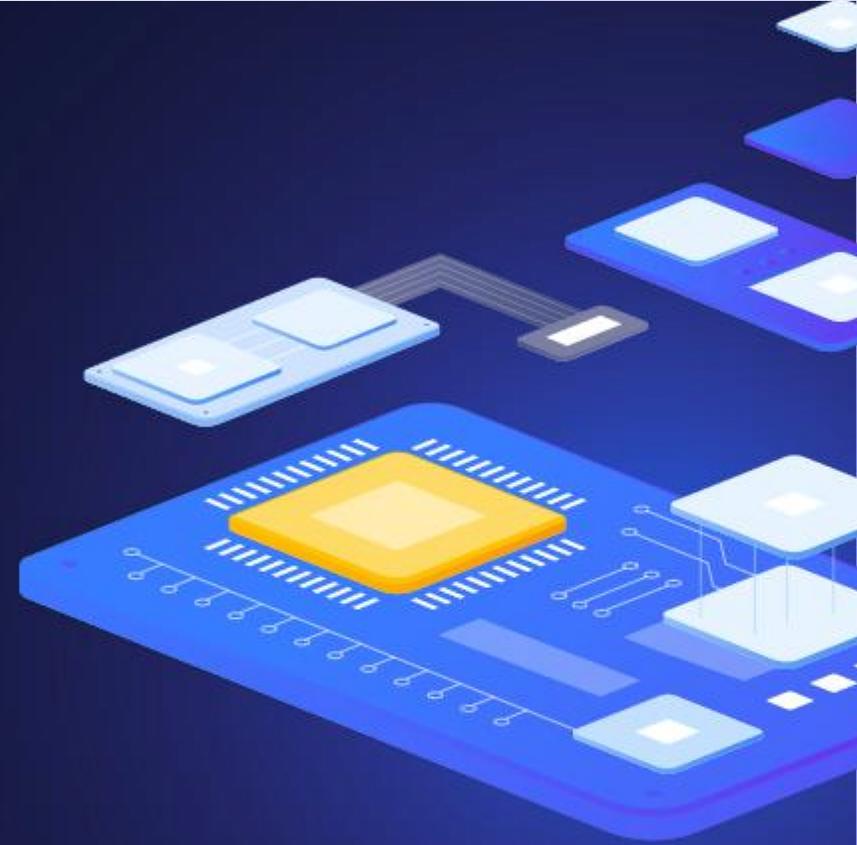
Name	Value	
DC	Brazil	(created by host discovery)
Environment	QA	Remove

[Add](#)

[Update](#) [Clone](#) [Full clone](#) [Delete](#) [Cancel](#)

6

Extended VMware monitoring



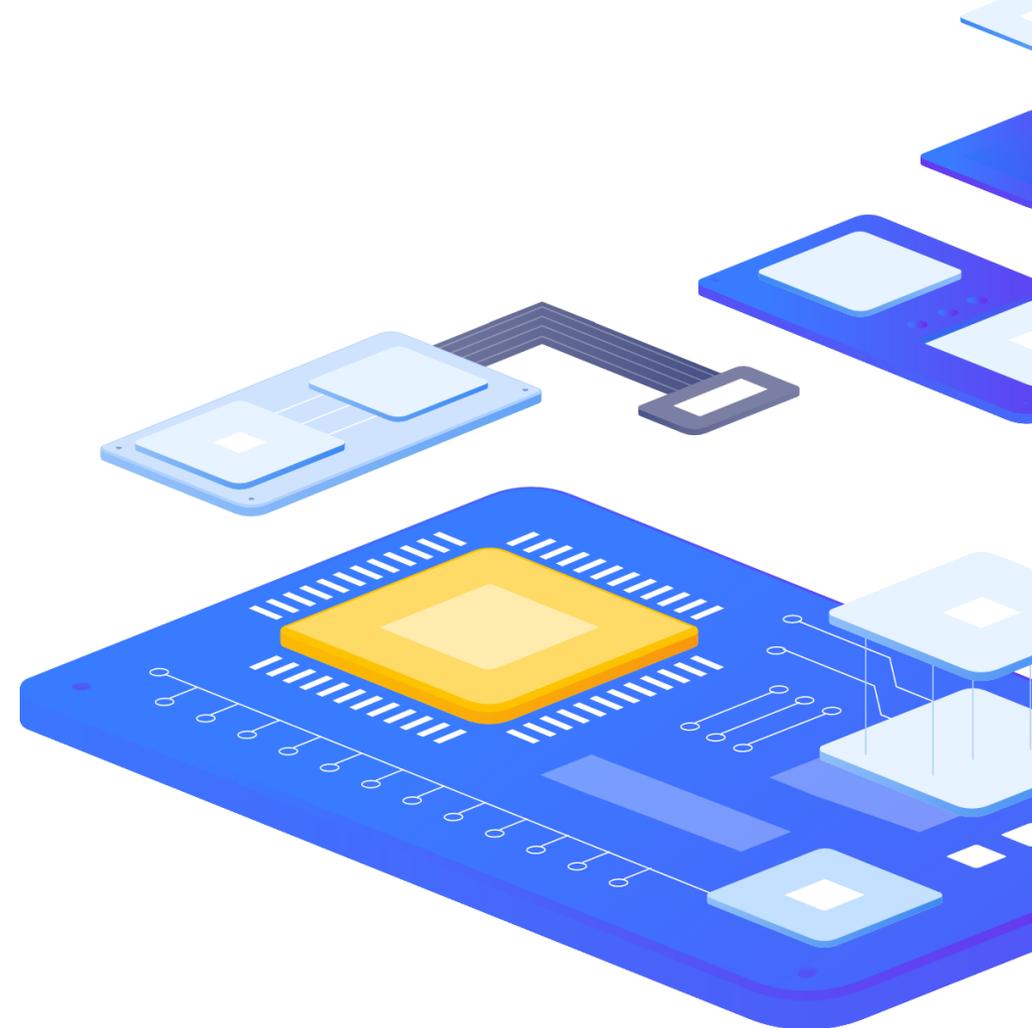
Zabbix 6.2

Extended Vmware monitoring

Hosts created by using the Zabbix VMware monitoring features can now be further modified.

This is based on the changes provided as a part of the improved host discovery feature:

- › Manually assign additional templates to the discovered VMware hosts
- › Create and modify user macros on the discovered VMware hosts
- › Create additional tags on the discovered VMware hosts



Zabbix 6.2

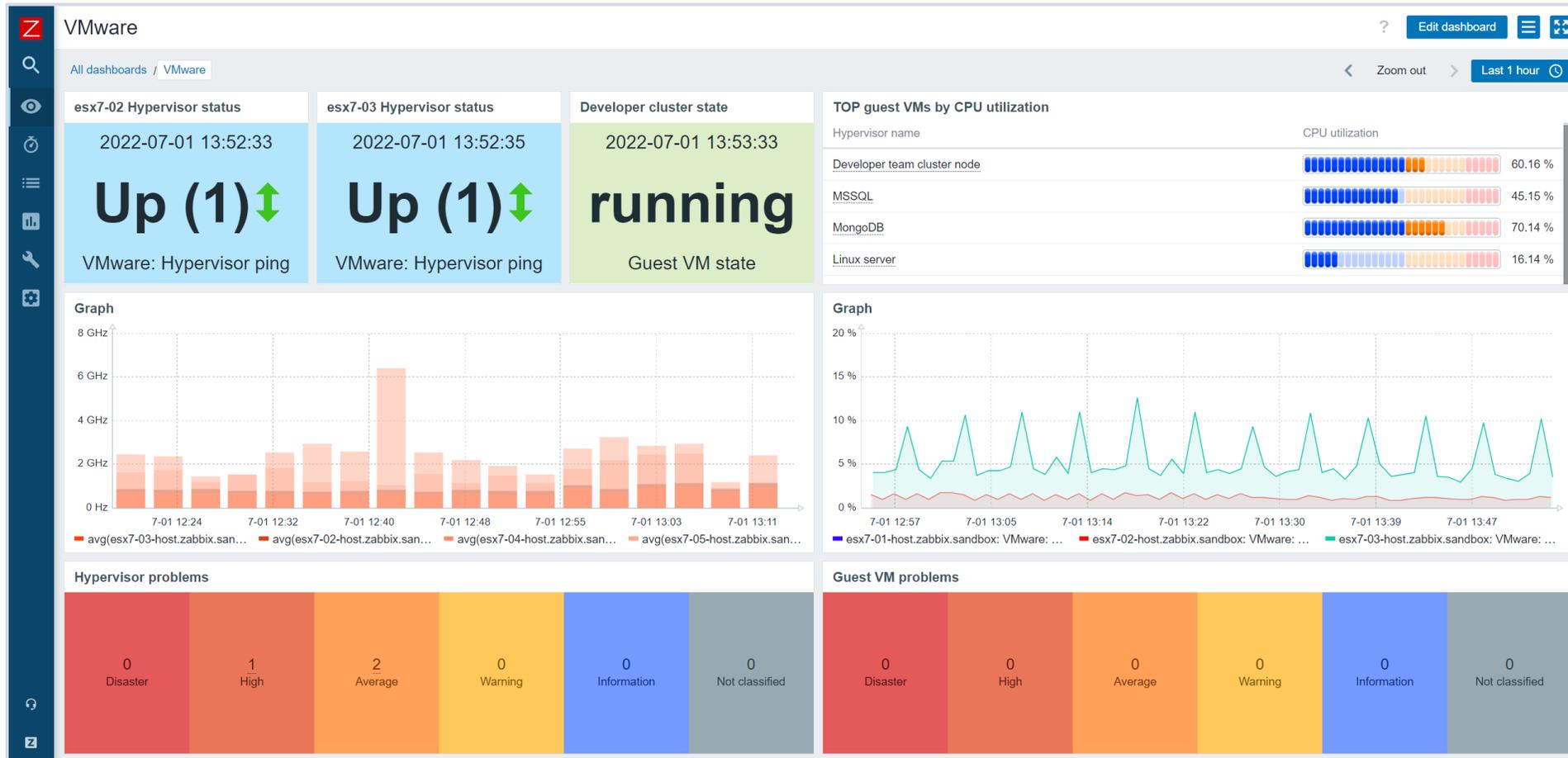
New VMware items and llds

VMware monitoring now supports many new items and LLDs:

- ▶ VMware alarm status
- ▶ Number and timestamp of VMware snapshots
- ▶ Hypervisor network interface metrics
- ▶ VMware vSphere Distributed Switch port metrics
- ▶ Datastore IOPS read/write metrics
- ▶ Datastore performance counters
- ▶ VMware guest state
- ▶ And more

Currently the new items are not a part of the VMware templates. Refer to the official documentation to implement these items in custom templates.

New Vmware items and Iids



7

Track your active check status

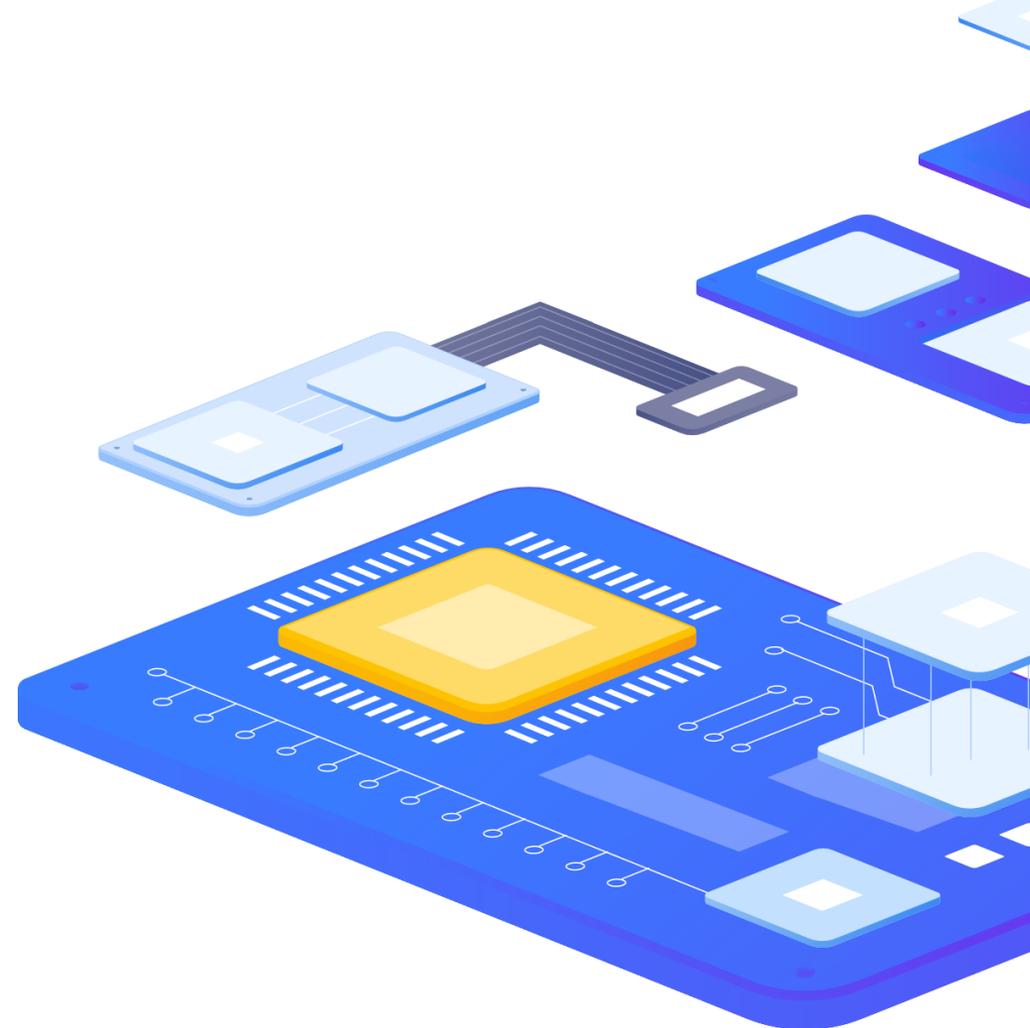


Zabbix 6.2

Active agent check status icon

Zabbix active agent check status can now be observed when hovering over the Zabbix agent interface icon:

- › Track the availability of your passive and active agent checks directly from Zabbix frontend
- › Customizable Zabbix agent heartbeat period is available in the agent configuration file
- › A new internal item is available for active agent check status monitoring
- › The Zabbix active agent check status can also be retrieved by Zabbix API



INTRODUCTION

Active check availability is based on heartbeat only

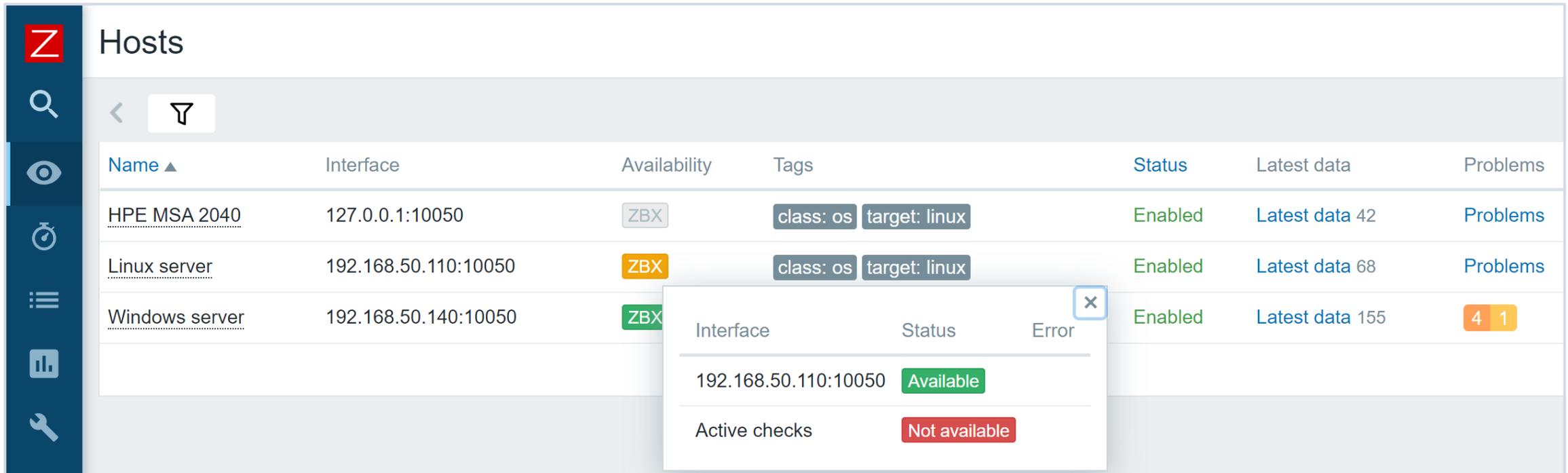
- ▶ Zabbix agent since 6.2 has a new HeartbeatFrequency configuration option

```
### Option: HeartbeatFrequency
# Frequency of heartbeat messages in seconds.
# Used for monitoring availability of active checks.
# 0 - heartbeat messages disabled.
# Mandatory: no
# Range: 0-3600
# Default: 60
HeartbeatFrequency=30
```

- ▶ Active check updates and data sent to Zabbix server is not used for availability calculation
- ▶ Older agents (pre 6.2) are not sending heartbeats and will have unknown (gray) status
- ▶ Server is calculating status based on next expected heartbeat

```
{
  "request": "active check heartbeat",
  "host": "hostname",
  "heartbeat_freq": 30
}
```

Active agent check status icon



The screenshot shows the Zabbix Hosts page. A table lists three hosts: HPE MSA 2040, Linux server, and Windows server. The Linux server row is highlighted, and a tooltip is open over it. The tooltip displays the interface address (192.168.50.110:10050) with a green 'Available' status and 'Active checks' with a red 'Not available' status. The main table shows the 'Availability' column with 'ZBX' icons and the 'Status' column with 'Enabled' text. The 'Problems' column for the Linux server shows a count of 4 (orange) and 1 (yellow).

Name ▲	Interface	Availability	Tags	Status	Latest data	Problems
HPE MSA 2040	127.0.0.1:10050	ZBX	class: os target: linux	Enabled	Latest data 42	Problems
Linux server	192.168.50.110:10050	ZBX	class: os target: linux	Enabled	Latest data 68	Problems
Windows server	192.168.50.140:10050	ZBX		Enabled	Latest data 155	4 1

Interface: 192.168.50.110:10050 Status: Available

Active checks: Not available

Active agent check status icon

The Zabbix agent host availability icon is now calculated as a combination of passive and active checks.

If a host contains both active and passive agent items:

- ▶ The icon will be green if both passive and active checks are available
- ▶ The icon will be gray if one type of check is unknown, and the other type is available
- ▶ The icon will be yellow if one type of check is unavailable, and the other type is available

As agents of older versions are not sending any heartbeats, availability of their hosts will remain unknown.

Active agent check status icon

Status Icon	Status message									
	<table border="1"><thead><tr><th>Interface</th><th>Status</th><th>Error</th></tr></thead><tbody><tr><td>192.168.50.110:10050</td><td>Available</td><td></td></tr><tr><td>Active checks</td><td>Available</td><td></td></tr></tbody></table>	Interface	Status	Error	192.168.50.110:10050	Available		Active checks	Available	
Interface	Status	Error								
192.168.50.110:10050	Available									
Active checks	Available									
	<table border="1"><thead><tr><th>Interface</th><th>Status</th><th>Error</th></tr></thead><tbody><tr><td>192.168.50.110:10050</td><td>Available</td><td></td></tr><tr><td>Active checks</td><td>Not available</td><td></td></tr></tbody></table>	Interface	Status	Error	192.168.50.110:10050	Available		Active checks	Not available	
Interface	Status	Error								
192.168.50.110:10050	Available									
Active checks	Not available									
	<table border="1"><thead><tr><th>Interface</th><th>Status</th><th>Error</th></tr></thead><tbody><tr><td>192.168.50.110:10050</td><td>Not available</td><td>Received empty response from Zabbix Agent at [192.168.50.110]. Assuming that agent dropped connection because of access permissions.</td></tr><tr><td>Active checks</td><td>Not available</td><td></td></tr></tbody></table>	Interface	Status	Error	192.168.50.110:10050	Not available	Received empty response from Zabbix Agent at [192.168.50.110]. Assuming that agent dropped connection because of access permissions.	Active checks	Not available	
Interface	Status	Error								
192.168.50.110:10050	Not available	Received empty response from Zabbix Agent at [192.168.50.110]. Assuming that agent dropped connection because of access permissions.								
Active checks	Not available									

8

Zabbix performance improvements
and internal changes



Zabbix 6.2

Incremental configuration synchronization

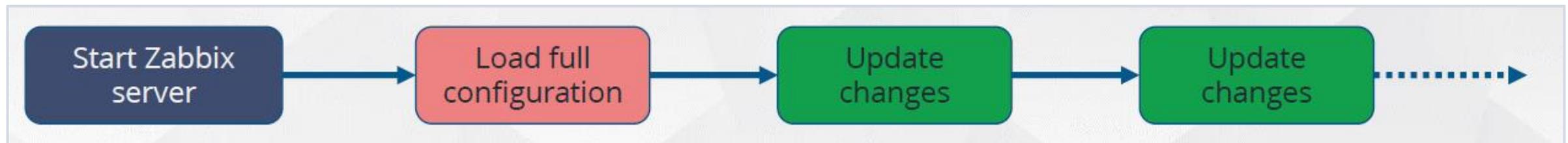
Instead of periodically reloading the full Zabbix configuration data, Zabbix server now receives only the latest configuration changes:

- › Configuration cache now supports incremental updates
- › Zabbix server now receives only the latest configuration changes
- › The new configuration synchronization logic greatly improves performance on large Zabbix instances

Database triggers and table "changelog" is used to track changes:

- › Records older than 1 hour are removed from the table automatically **after config sync**
- › **Additional privileges are required** when upgrading Zabbix database

On Zabbix server start full configuration cache is loaded from database



Immediate initial item check

The initial item check logic has been improved and newly created items now receive their first metrics within a minute after their creation:

- ▶ In previous versions, the items were checked at a random point in time within the item's update interval
- ▶ This ensures that you can receive your first metric and check the item status shortly after the item has been created

New User macro cache

As a part of the incremental configuration synchronization design, a new user macro cache has been created:

- › Resolves issues with configuration cache locking, which was required during user macro resolution
- › Cache is maintained by configuration syncer
- › This in turn improves the overall Zabbix performance
- › The cache scales dynamically and does not have a dedicated configuration parameter

In previous versions user macros were kept in configuration cache:

- › User macro resolving required configuration cache lock for each macro
- › This approach was not compatible with incremental updates

9

Improved execute now usability and behavior

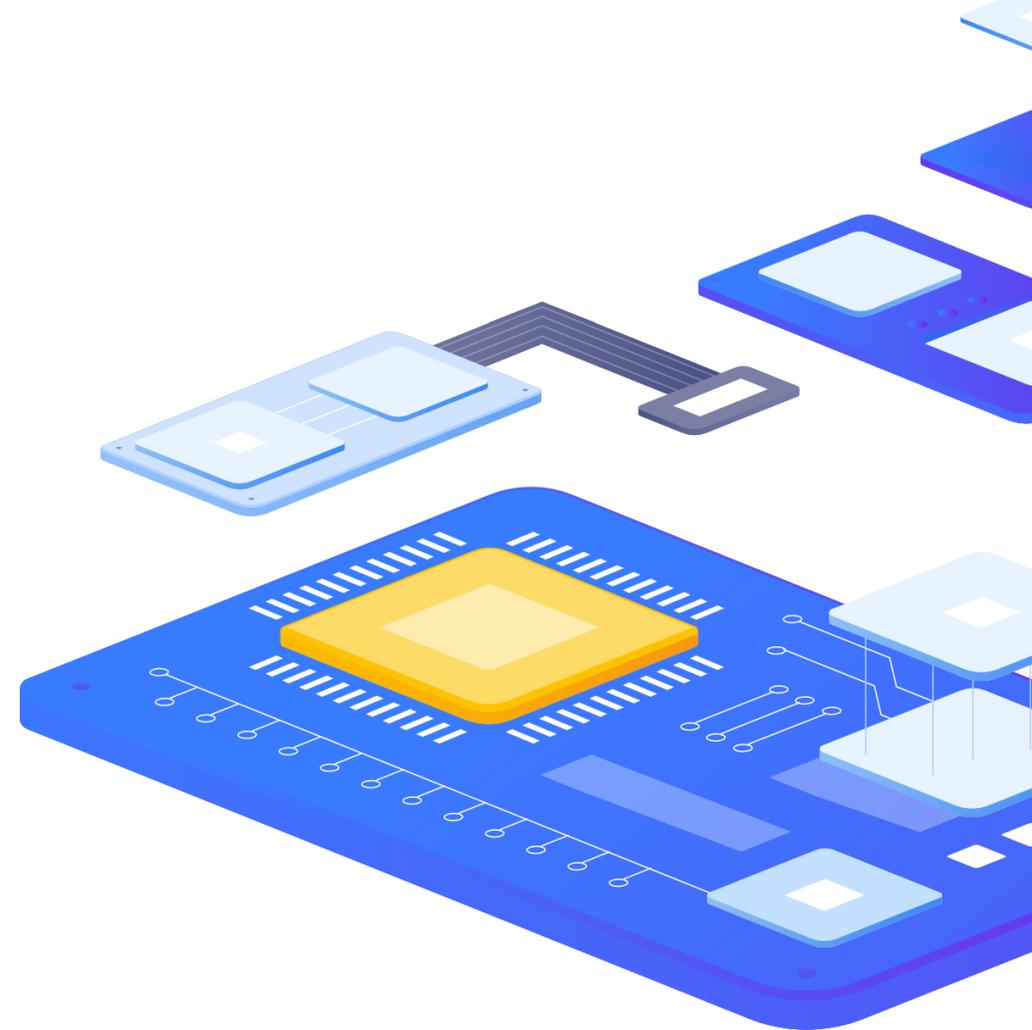


Zabbix 6.2

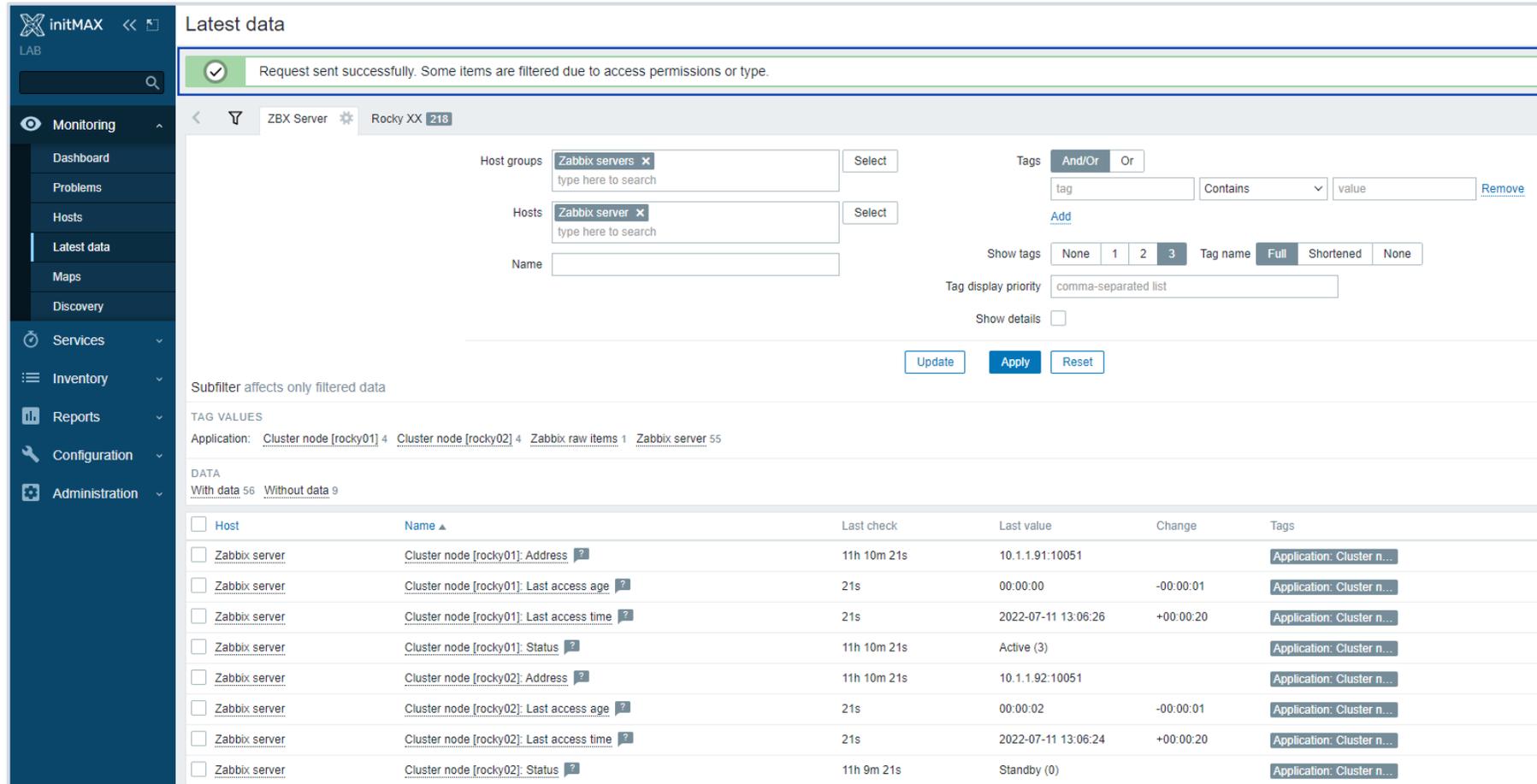
Execute now in latest data

The Execute now button, used to immediately retrieve a metric, is now available from the Latest data section:

- › Items that do not support Execute now will be ignored, instead of displaying an error message
- › A warning will be displayed if a user attempts to use the Execute now feature on an item that does not support it
- › The Execute now permission has been added to the list of permissions available when customizing a Zabbix role



Execute now in latest data



The screenshot shows the Zabbix 6.2 'Latest data' interface. At the top, a green notification bar states: 'Request sent successfully. Some items are filtered due to access permissions or type.' Below this, the breadcrumb path is 'ZBX Server > Rocky XX [218]'. The interface includes filter fields for 'Host groups' (set to 'Zabbix servers'), 'Hosts' (set to 'Zabbix server'), and 'Name'. On the right, there are 'Tags' filters with 'And/Or' and 'Or' options, a 'tag' input field, a 'Contains' dropdown, and a 'value' input field. Below these are 'Show tags' (None, 1, 2, 3), 'Tag name' (Full, Shortened, None), and 'Tag display priority' (comma-separated list). 'Show details' is unchecked. 'Update', 'Apply', and 'Reset' buttons are at the bottom right of the filter section.

Subfilter affects only filtered data

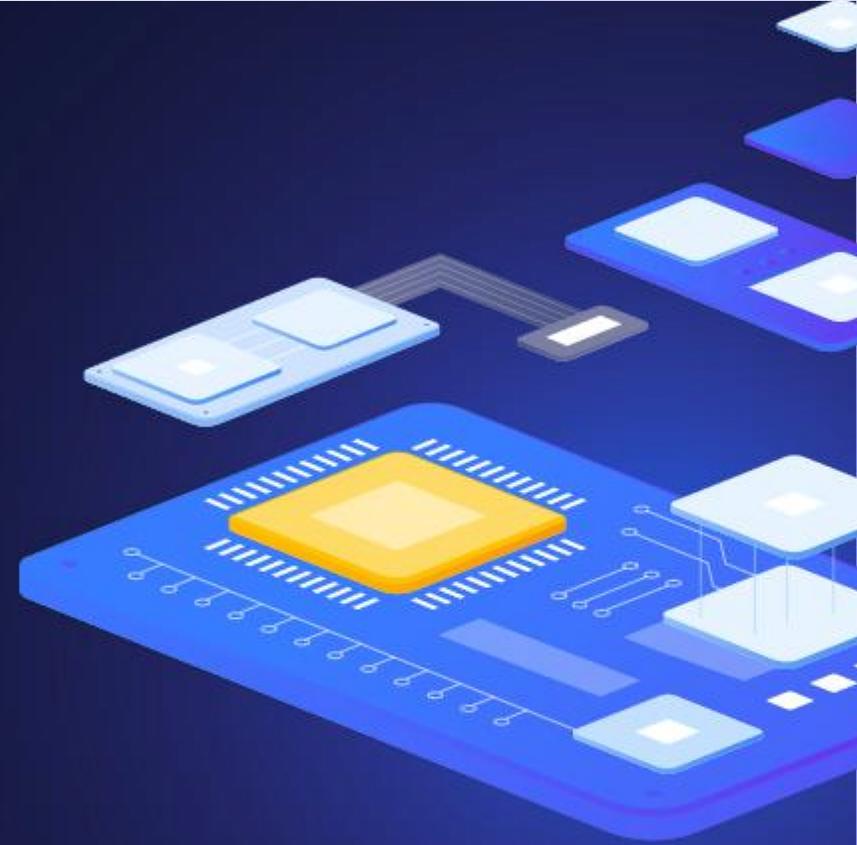
TAG VALUES
 Application: [Cluster node \[rocky01\]](#) 4 [Cluster node \[rocky02\]](#) 4 [Zabbix raw items](#) 1 [Zabbix server](#) 55

DATA
 With data 56 Without data 9

<input type="checkbox"/>	Host	Name ▲	Last check	Last value	Change	Tags
<input type="checkbox"/>	Zabbix server	Cluster node [rocky01]: Address ?	11h 10m 21s	10.1.1.91:10051		Application: Cluster n...
<input type="checkbox"/>	Zabbix server	Cluster node [rocky01]: Last access age ?	21s	00:00:00	-00:00:01	Application: Cluster n...
<input type="checkbox"/>	Zabbix server	Cluster node [rocky01]: Last access time ?	21s	2022-07-11 13:06:26	+00:00:20	Application: Cluster n...
<input type="checkbox"/>	Zabbix server	Cluster node [rocky01]: Status ?	11h 10m 21s	Active (3)		Application: Cluster n...
<input type="checkbox"/>	Zabbix server	Cluster node [rocky02]: Address ?	11h 10m 21s	10.1.1.92:10051		Application: Cluster n...
<input type="checkbox"/>	Zabbix server	Cluster node [rocky02]: Last access age ?	21s	00:00:02	-00:00:01	Application: Cluster n...
<input type="checkbox"/>	Zabbix server	Cluster node [rocky02]: Last access time ?	21s	2022-07-11 13:06:24	+00:00:20	Application: Cluster n...
<input type="checkbox"/>	Zabbix server	Cluster node [rocky02]: Status ?	11h 9m 21s	Standby (0)		Application: Cluster n...

10

Separate host and template groups

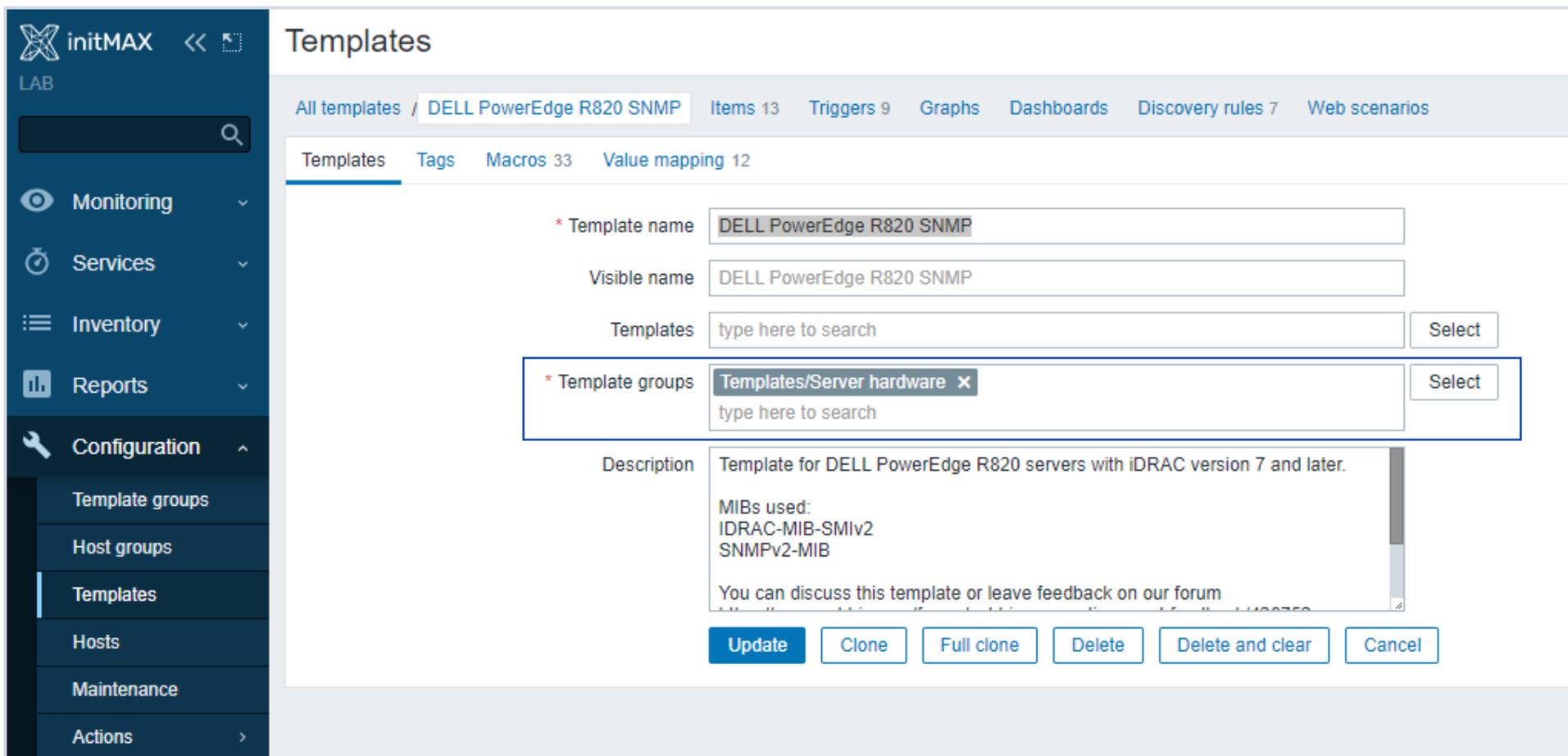


Template Groups

In order to facilitate easier host and template filtering, templates are now grouped in template groups, instead of host groups:

- › New Template groups section under the Configuration menu
- › During the upgrade process existing templates will be moved to Template groups
- › Importing templates and hosts from previous Zabbix versions are fully supported and appropriate groups will be created from the import file
- › Role-based access permissions can be assigned for the Template groups section
- › New Template group API methods can be used to create, modify and retrieve template groups

Template Groups



The screenshot shows the Zabbix 6.2 web interface for editing a template. The left sidebar is in the 'Configuration' section, with 'Templates' selected. The main content area is titled 'Templates' and shows the configuration for the 'DELL PowerEdge R820 SNMP' template. The breadcrumb trail is 'All templates / DELL PowerEdge R820 SNMP'. Below the breadcrumb, there are tabs for 'Templates', 'Tags', 'Macros 33', and 'Value mapping 12'. The form fields are as follows:

- * Template name:** Input field containing 'DELL PowerEdge R820 SNMP'.
- Visible name:** Input field containing 'DELL PowerEdge R820 SNMP'.
- Templates:** Search input field with 'type here to search' and a 'Select' button.
- * Template groups:** Input field containing 'Templates/Server hardware' with a close icon and a 'Select' button. This field is highlighted with a red box.
- Description:** Text area containing 'Template for DELL PowerEdge R820 servers with iDRAC version 7 and later.', 'MIBs used: IDRAC-MIB-SMIv2, SNMPv2-MIB', and a link to a forum.

At the bottom of the form, there are buttons for 'Update', 'Clone', 'Full clone', 'Delete', 'Delete and clear', and 'Cancel'.

Template Groups

initMAX LAB

Monitoring

Services

Inventory

Reports

Configuration

Template groups

Host groups

Templates

Hosts

Maintenance

Actions

Event correlation

Discovery

Administration

<input type="checkbox"/>	LAB/Templates	1	Log Analysis Test
<input type="checkbox"/>	QCM	3	QCM_WEB_HOST, QCM_WEB_MASTER, QCM_WEB_PERF
<input type="checkbox"/>	Templates	4	O2-ITEMHOST-OSS-V1, O2-ITEMHOST-OSS-V2, Template AX App Docker ACTIVE, Template AX App Docker PASSIVE
<input type="checkbox"/>	Templates/Applications	51	Apache ActiveMQ by JMX, Apache by HTTP, Apache by Zabbix agent, Apache Kafka by JMX, Apache Tomcat JMX, Aranel Cloud, Ceph by Zabbix agent 2, Cloudflare by HTTP, Cloudflare by HTTP - migrate 5.2, Docker by Zabbix agent 2, Elasticsearch Cluster by HTTP, Etcid by HTTP, Generic Java JMX, GitLab by HTTP, Hadoop by HTTP, HAProxy by HTTP, HAProxy by Zabbix agent, HashiCorp Vault by HTTP, IIS by Zabbix agent, IIS by Zabbix agent active, InfluxDB by HTTP, Jenkins by HTTP, Memcached by Zabbix agent 2, Microsoft Exchange Server 2016 by Zabbix agent, Microsoft Exchange Server 2016 by Zabbix agent active, Microsoft SharePoint by HTTP, Nginx by HTTP, Nginx by Zabbix agent, PHP-FPM by HTTP, PHP-FPM by Zabbix agent, RabbitMQ cluster by HTTP, RabbitMQ cluster by Zabbix agent, RabbitMQ node by HTTP, RabbitMQ node by Zabbix agent, Remote Zabbix proxy health, Remote Zabbix server health, Systemd by Zabbix agent 2, Template App Nginx Plus by HTTP, Template App Zabbix processes memory usage, Travis Ci by HTTP, VMware, VMware FQDN, VMware Guest, VMware Hypervisor, VMware macros, Website certificate by Zabbix agent 2, WildFly Domain by JMX, WildFly Server by JMX, Zabbix proxy health, Zabbix server health ...
<input type="checkbox"/>	Templates/Databases	18	Apache Cassandra by JMX, ClickHouse by HTTP, GridGain by JMX, Ignite by JMX, MongoDB cluster by Zabbix Agent 2, MongoDB node by Zabbix Agent 2, MSSQL by ODBC, MySQL by ODBC, MySQL by Zabbix agent, MySQL by Zabbix agent 2, Oracle by ODBC, Oracle by Zabbix agent 2, PostgreSQL by user parameters, PostgreSQL by Zabbix agent 2, Redis by Zabbix agent 2, TiDB by HTTP, TiDB PD by HTTP, TiDB TiKV by HTTP
<input type="checkbox"/>	Templates/Modules	76	Brocade_Foundry Performance SNMP, Cisco CISCO-ENVMON-MIB SNMP, Cisco CISCO-MEMORY-POOL-MIB SNMP, Cisco CISCO-PROCESS-MIB IOS versions 12.0_3_T-12.2_3_5 SNMP, Cisco CISCO-PROCESS-MIB SNMP, Cisco Inventory SNMP, Cisco OLD-CISCO-CPU-MIB SNMP, EtherLike-MIB SNMP, FTP Service, Generic SNMP, HOST-RESOURCES-MIB CPU SNMP, HOST-RESOURCES-MIB memory SNMP, HOST-RESOURCES-MIB SNMP, HOST-RESOURCES-MIB storage SNMP, HTTP Service, HTTPS Service, ICMP Ping, IMAP Service, Interfaces Simple SNMP, Interfaces SNMP, Interfaces Windows SNMP, LDAP Service, Linux block devices by Zabbix agent, Linux block devices by Zabbix agent active, Linux block devices SNMP, Linux CPU by Zabbix agent, Linux CPU by Zabbix agent active, Linux CPU SNMP, Linux filesystems by Zabbix agent, Linux filesystems by Zabbix agent active, Linux filesystems SNMP, Linux generic by Zabbix agent, Linux generic by Zabbix agent active, Linux memory by Zabbix agent, Linux memory SNMP, Linux network interfaces by Zabbix agent, NNTP Service, NTP Service, POP Service, SMTP Service, SSH Service, Telnet Service, Windows CPU by Zabbix agent, Windows filesystems by Zabbix agent, Windows generic by Zabbix agent, Windows memory by Zabbix agent, Windows network by Zabbix agent, Windows physical disks by Zabbix agent, Windows services by Zabbix agent, Zabbix agent ...
<input type="checkbox"/>	Templates/Network devices	95	Alcatel Timetra TIMOS SNMP, Arista SNMP, Brocade FC SNMP, Brocade_Foundry Nonstackable SNMP, Brocade_Foundry Stackable SNMP, Cisco ASAv SNMP, Cisco IOS prior to 12.0_3_T SNMP, Cisco IOS SNMP, Cisco IOS versions 12.0_3_T-12.2_3_5 SNMP, D-Link DES 7200 SNMP, D-Link DES_DGS Switch SNMP, Dell Force S-Series SNMP, Extreme EXOS SNMP, F5 Big-IP SNMP, HP Comware HH3C SNMP, HP Enterprise Switch SNMP, Huawei VRP SNMP, Intel_Qlogic Infiniband SNMP, Juniper SNMP, Mellanox SNMP, MikroTik CCR1009-7G-1C-1S+PC SNMP, MikroTik CCR1009-7G-1C-1S+ SNMP, MikroTik CCR1009-7G-1C-PC SNMP, MikroTik CCR1016-12G SNMP, MikroTik CCR1016-12S-1S+ SNMP, MikroTik CCR1036-8G-2S+EM SNMP, MikroTik CCR1036-8G-2S+ SNMP, MikroTik CCR1036-12G-4S-EM SNMP, MikroTik CCR1036-12G-4S SNMP, MikroTik CCR1072-1G-8S+ SNMP, MikroTik CCR2004-16G-2S+ SNMP, Mikrotik SNMP, Netgear Fastpath SNMP, Network Generic Device SNMP, QTech QSW SNMP, TP-LINK SNMP, Ubiquiti AirOS SNMP, ZYXEL AAM1212-51 IES-612 SNMP, ZYXEL ES3500-8PD SNMP, ZYXEL GS-4012F SNMP, ZYXEL IES-500x SNMP, ZYXEL IES-6000 SNMP, ZYXEL IES1248-51 SNMP, ZYXEL MES-3528 SNMP, ZYXEL MES3500-10 SNMP, ZYXEL MES3500-24 SNMP, ZYXEL MES3500-24S SNMP, ZYXEL MGS-3712 SNMP, ZYXEL MGS-3712F SNMP, ZYXEL MGS3520-28x SNMP ...
<input type="checkbox"/>	Templates/Operating systems	13	AIX, FreeBSD, HP-UX, Linux by Prom, Linux by Zabbix agent, Linux by Zabbix agent active, Linux SNMP, macOS, OpenBSD, Solaris, Windows by Zabbix agent, Windows by Zabbix agent active, Windows SNMP
<input type="checkbox"/>	Templates/Power	12	APC Smart-UPS 2200 RM SNMP, APC Smart-UPS 3000 XLM SNMP, APC Smart-UPS RT 1000 RM XL SNMP, APC Smart-UPS RT 1000 XL SNMP, APC Smart-UPS SRT 5000 SNMP, APC Smart-UPS SRT 5000 SNMP bkp, APC Smart-UPS SRT 8000 SNMP, APC UPS Galaxy 3500 SNMP, APC UPS SNMP, APC UPS Symmetra LX SNMP, APC UPS Symmetra RM SNMP, APC UPS Symmetra RX SNMP
<input type="checkbox"/>	Templates/SAN	3	Huawei OceanStor 5300 V5 SNMP, NetApp AFF A700 by HTTP, NetApp FAS3220 SNMP
<input type="checkbox"/>	Templates/Server hardware	21	Chassis by IPMI, Cisco UCS Manager SNMP, Cisco UCS SNMP, Dell iDRAC SNMP, DELL PowerEdge R720 by HTTP, DELL PowerEdge R720 SNMP, DELL PowerEdge R740 by HTTP, DELL PowerEdge R740 SNMP, DELL PowerEdge R820 by HTTP, DELL PowerEdge R820 SNMP, DELL PowerEdge R840 by HTTP, DELL PowerEdge R840 SNMP, HPE ProLiant BL460 SNMP, HPE ProLiant BL920 SNMP, HPE ProLiant DL360 SNMP, HPE ProLiant DL380 SNMP, HP iLO SNMP, IBM IMM SNMP, Intel SR1530 IPMI, Intel SR1630 IPMI, Supermicro Aten SNMP
<input type="checkbox"/>	Templates/Telephony	1	Asterisk by HTTP
<input type="checkbox"/>	Templates/Video surveillance	1	Hikvision camera by HTTP
<input type="checkbox"/>	Templates/Virtualization		
<input type="checkbox"/>	Templates/Zabbix	2	LAB - Template DB - Payments statistics - odbc, LAB - Template ZBX - Host tags - script

Displaying 20 of 20 found

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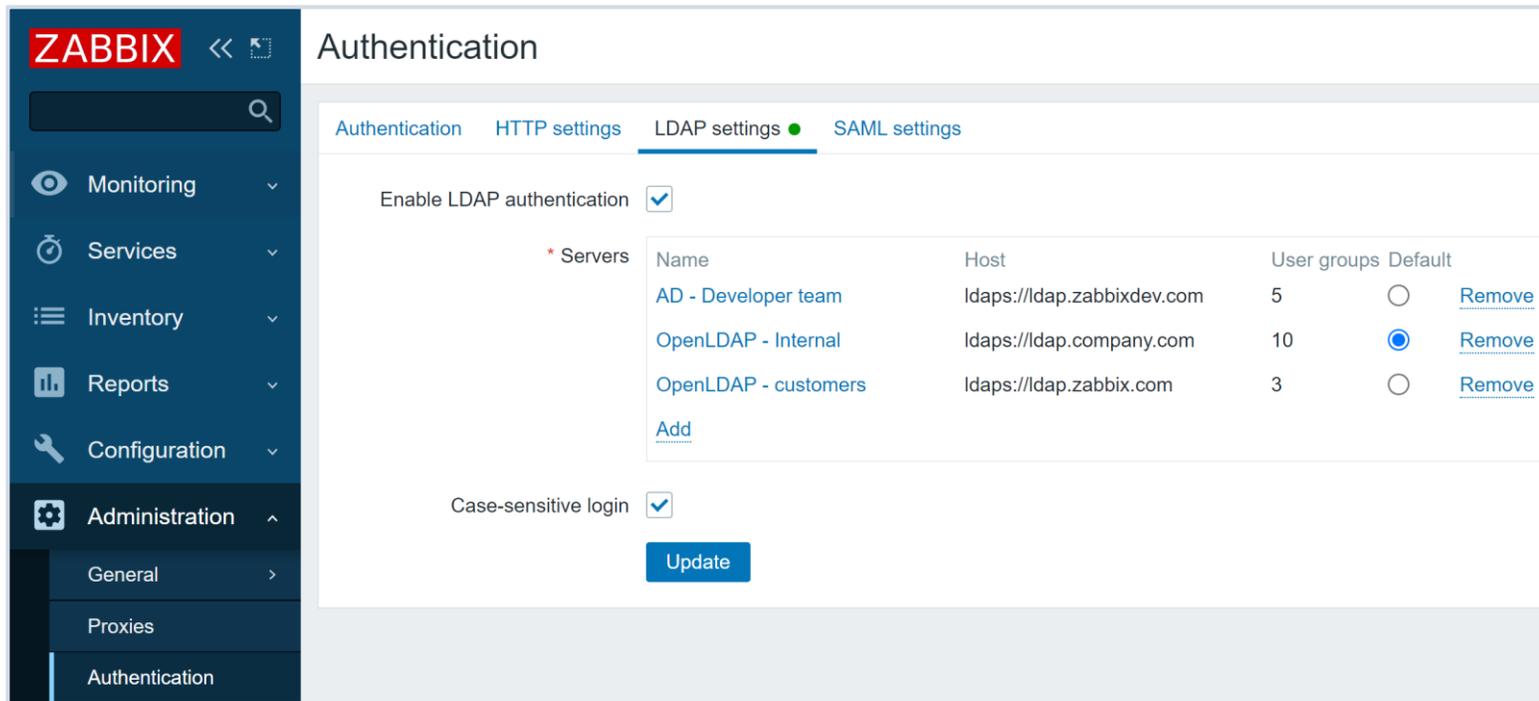
Support of multiple LDAP servers for
user authentication



Define Multiple Idap servers

Multiple LDAP servers can now be defined and saved under Authentication - LDAP settings:

- ▶ Improved security and compliance with company policies where organizational units authenticate via different LDAP servers
- ▶ Seamlessly switch user authentication between LDAP servers after LDAP server migration or update

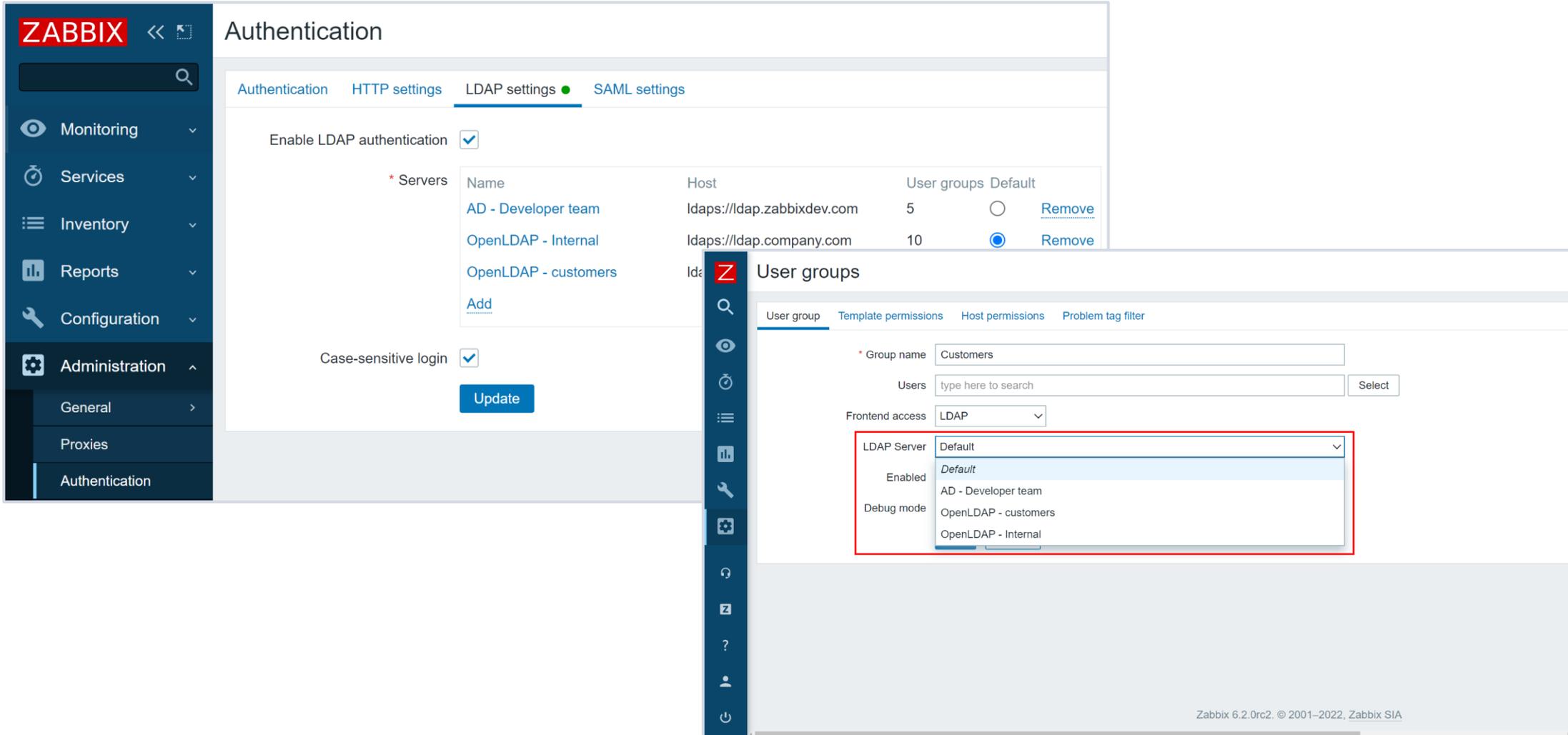


The screenshot shows the Zabbix 6.2 web interface for configuring LDAP authentication. The left sidebar contains navigation options: Monitoring, Services, Inventory, Reports, Configuration, Administration (General, Proxies, Authentication), and Administration. The main content area is titled 'Authentication' and has tabs for Authentication, HTTP settings, LDAP settings (selected), and SAML settings. The 'LDAP settings' section includes a checked checkbox for 'Enable LDAP authentication' and a checked checkbox for 'Case-sensitive login'. Below these is a table of configured LDAP servers:

Name	Host	User groups	Default	
AD - Developer team	ldaps://ldap.zabbixdev.com	5	<input type="radio"/>	Remove
OpenLDAP - Internal	ldaps://ldap.company.com	10	<input checked="" type="radio"/>	Remove
OpenLDAP - customers	ldaps://ldap.zabbix.com	3	<input type="radio"/>	Remove

Below the table is an 'Add' link and an 'Update' button.

Define Multiple Idap servers



The screenshot displays the Zabbix 6.2 web interface. The left sidebar shows the navigation menu with 'Administration' selected. The main content area is titled 'Authentication' and has tabs for 'Authentication', 'HTTP settings', 'LDAP settings', and 'SAML settings'. The 'LDAP settings' tab is active, showing 'Enable LDAP authentication' checked and 'Case-sensitive login' checked. A table lists LDAP servers:

Name	Host	User groups	Default	
AD - Developer team	ldaps://ldap.zabbixdev.com	5	<input type="radio"/>	Remove
OpenLDAP - Internal	ldaps://ldap.company.com	10	<input checked="" type="radio"/>	Remove
OpenLDAP - customers	ldaps://ldap.company.com			

An 'Add' button is located below the table. An 'Update' button is at the bottom of the LDAP settings section.

A modal window titled 'User groups' is open, showing the 'User group' tab. The 'Group name' is 'Customers'. The 'Users' field contains 'type here to search' and a 'Select' button. The 'Frontend access' is set to 'LDAP'. The 'LDAP Server' dropdown is open, showing a list of servers: 'Default', 'AD - Developer team', 'OpenLDAP - customers', and 'OpenLDAP - Internal'. The 'Default' option is selected. The 'Enabled' checkbox is checked, and the 'Debug mode' checkbox is unchecked.

Zabbix 6.2.0rc2. © 2001–2022, Zabbix SIA

12

New templates and integrations

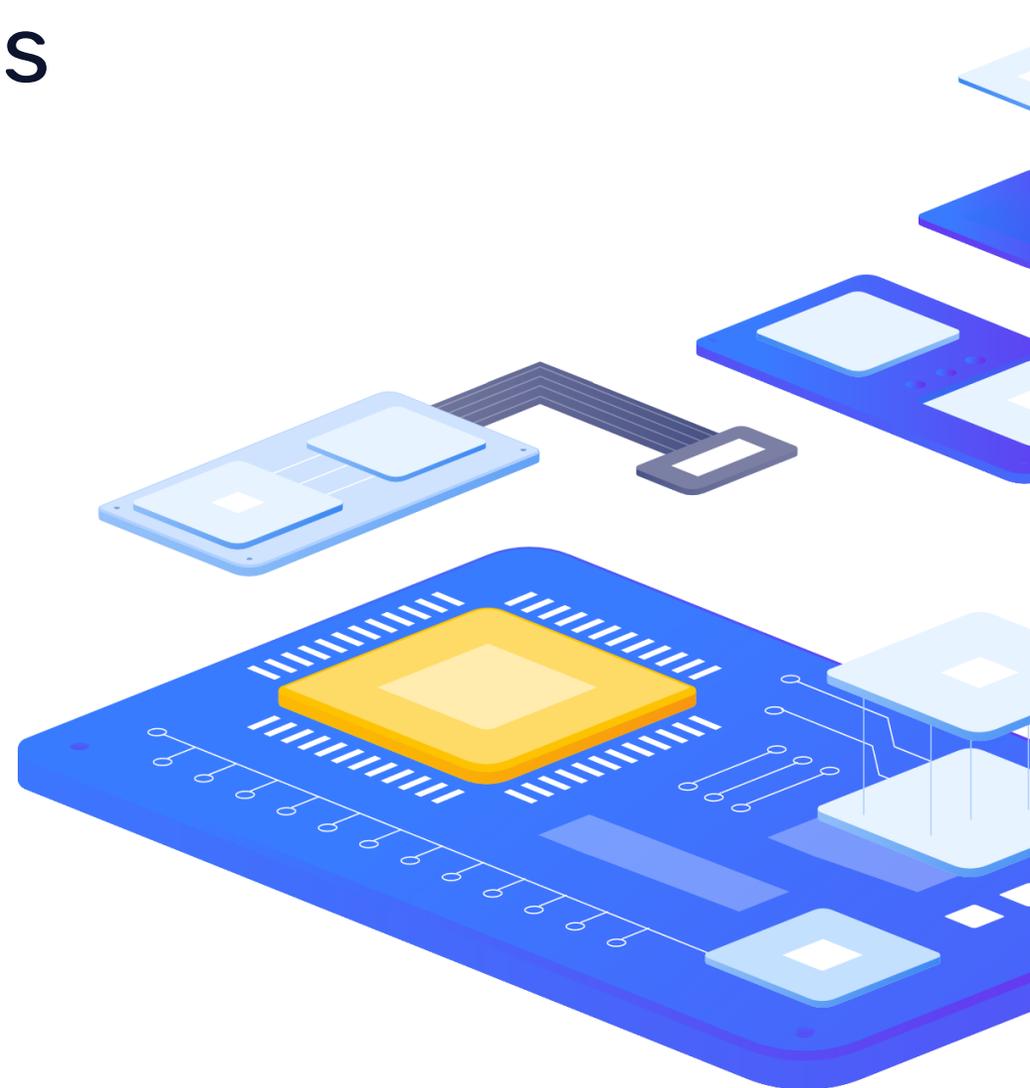


Zabbix 6.2

New Templates and integrations

Zabbix 6.2 comes pre-packaged with many new templates for the most popular vendors:

- › Envoy proxy
 - › HashiCorp Consul
 - › AWS EC2 Template
 - › CockroachDB
 - › TrueNAS
 - › HPE MSA 2060 & 2040
 - › HPE Primera
 - › The S.M.A.R.T. monitoring template has received improvements
- › Zabbix 6.2 introduces a webhook integration for the GLPI IT Asset Management solution. This webhook can be used to forward problems created in Zabbix to the GLPi Assistance section.



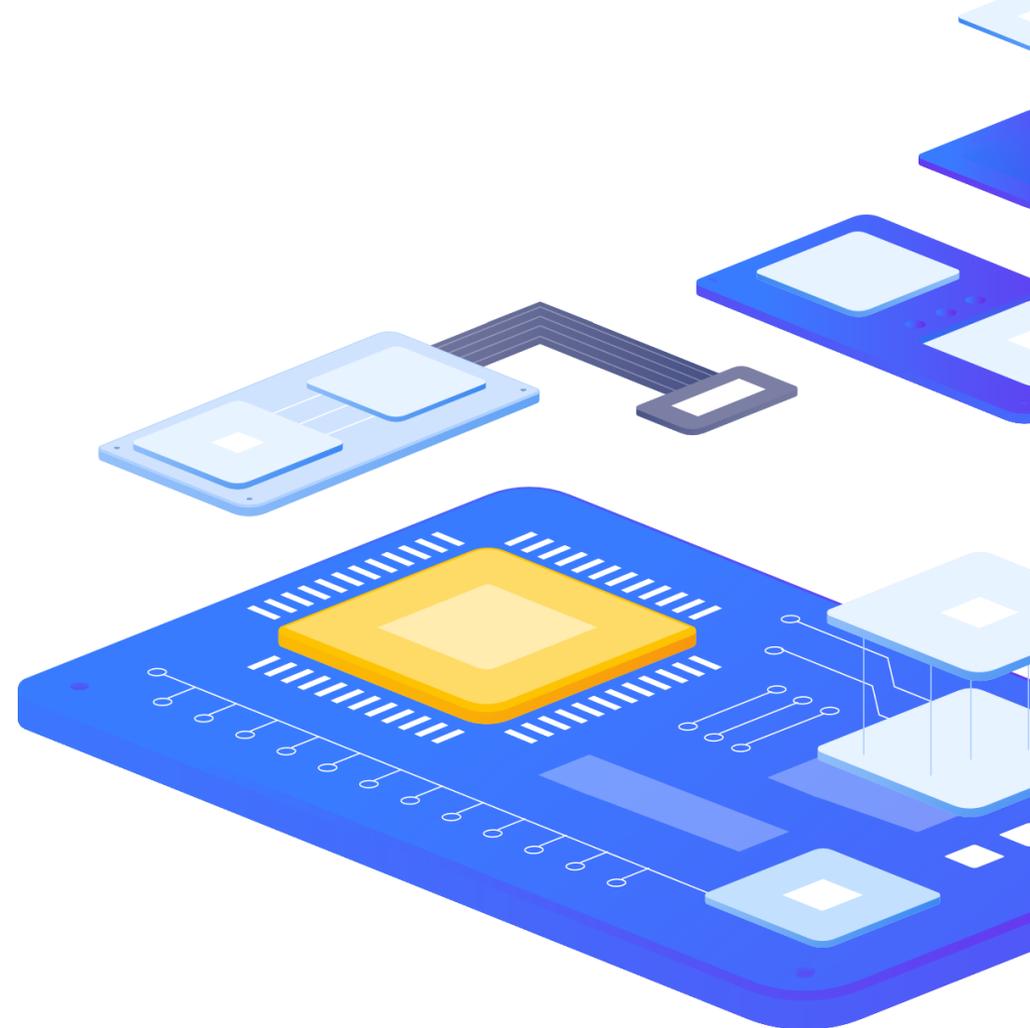
Zabbix 6.2

Cloud Monitoring

The official AWS EC2 template is just the first step. Zabbix plans on delivering many more cloud templates for the most popular cloud vendors:

- › AWS RDS
- › AWS S3
- › Azure cloud monitoring

Continue improving the existing cloud monitoring templates based on the community feedback



13

Other changes and improvements



Windows registry monitoring

Retrieve registry key values with the new registry monitoring items:

- ▶ New items – `registry.data[]` and `registry.get[]`
- ▶ `registry.data[]` – retrieve the value for the Windows registry key
- ▶ `registry.get[]` – list of Windows registry values or keys. Returns JSON

Zabbix 6.2

OS process discovery

Discover and monitor OS processes for multiple popular operating systems:

- ▶ New item – `proc.get[]`, returns JSON.
- ▶ Returns a list of running processes/threads or summarized data grouped by process name
- ▶ Supports three modes – process, thread, summary
- ▶ Supported on Linux, Windows and BSD systems
- ▶ The list of retrieved attributes is OS-specific. See the official `proc.get` parameters documentation page for the full list of retrieved attributes

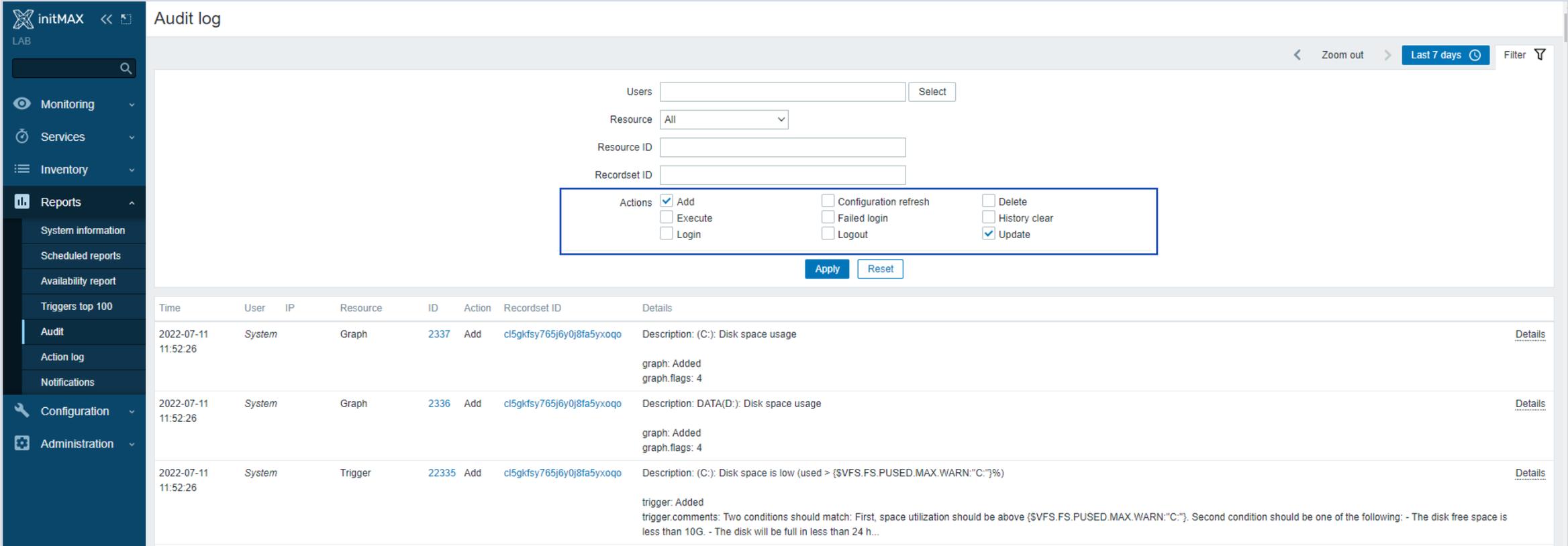
PHP version support

Minimum supported PHP version has been raised to PHP 7.4. Additional compatibility improvements have been made for PHP 8.1:

- ▶ Minimum supported PHP version raised to 7.4
- ▶ An error will be shown if an unsupported PHP version is used
- ▶ Multiple compatibility improvements have been implemented for PHP 8.1

Improved audit log filtering

Audit log now supports filtering by multiple actions:



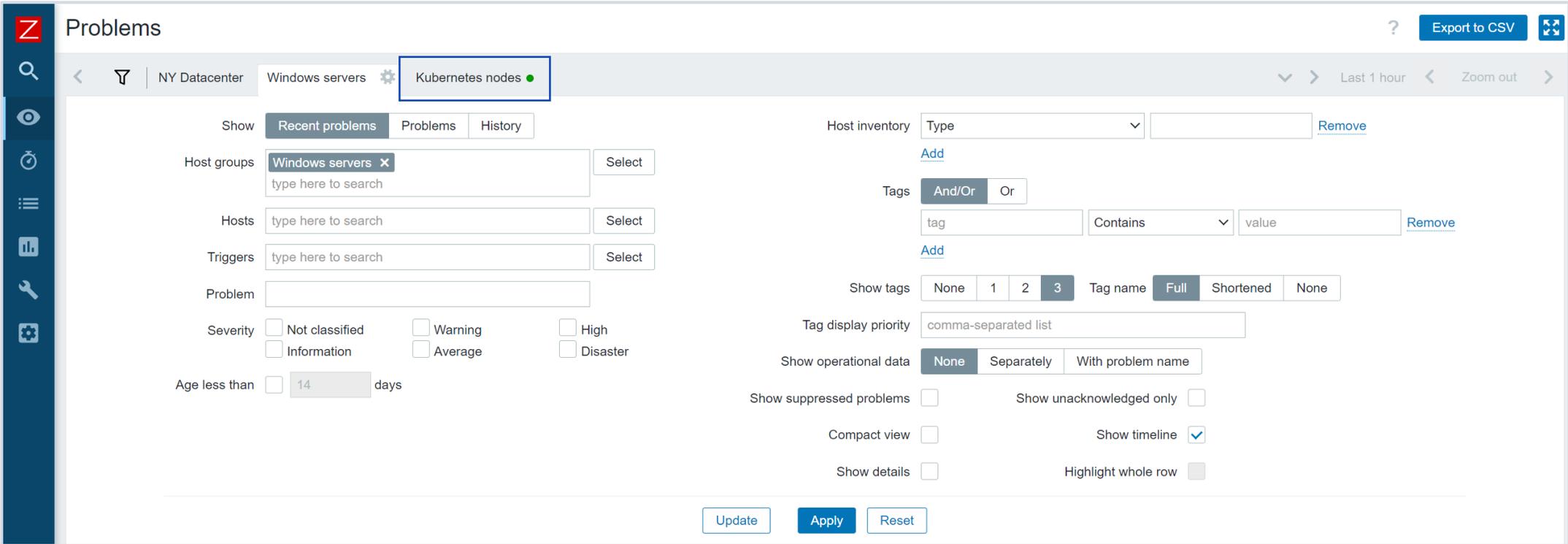
The screenshot shows the Zabbix 6.2 Audit log interface. The left sidebar contains navigation menus for Monitoring, Services, Inventory, Reports, Configuration, and Administration. The main content area is titled "Audit log" and features a search bar, navigation controls (Zoom out, Last 7 days), and a filter icon. Below these are input fields for Users (with a Select button), Resource (a dropdown menu), Resource ID, and Recordset ID. A central box highlights the "Actions" filter section, which includes checkboxes for Add, Execute, Login, Configuration refresh, Failed login, Logout, Delete, History clear, and Update. The "Apply" and "Reset" buttons are located below the filter options.

Time	User	IP	Resource	ID	Action	Recordset ID	Details	
2022-07-11 11:52:26	System		Graph	2337	Add	cl5gkfsy765j6y0j8fa5yx0qo	Description: (C:): Disk space usage graph: Added graph.flags: 4	Details
2022-07-11 11:52:26	System		Graph	2336	Add	cl5gkfsy765j6y0j8fa5yx0qo	Description: DATA(D:): Disk space usage graph: Added graph.flags: 4	Details
2022-07-11 11:52:26	System		Trigger	22335	Add	cl5gkfsy765j6y0j8fa5yx0qo	Description: (C:): Disk space is low (used > {\$VFS.FS.PUSED.MAX.WARN:"C:"}%) trigger: Added trigger.comments: Two conditions should match: First, space utilization should be above {\$VFS.FS.PUSED.MAX.WARN:"C:"}. Second condition should be one of the following: - The disk free space is less than 10G. - The disk will be full in less than 24 h...	Details

Improved monitoring filtering options

If a filter is changed but not saved, the state of filters will now be preserved in the Monitoring sections (Problems, Hosts, Latest data)

- ▶ The changed filter will be marked with a green dot

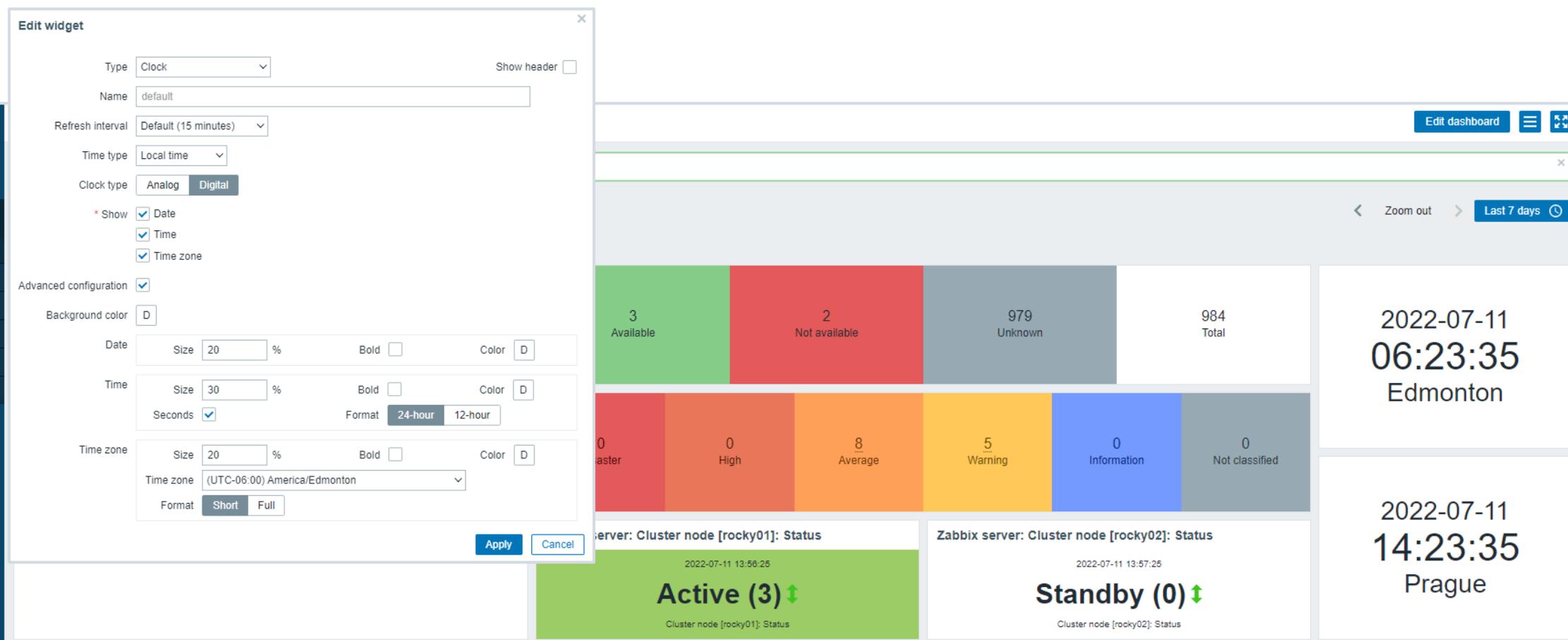


The screenshot displays the Zabbix 6.2 'Problems' monitoring page. The interface includes a sidebar with navigation icons and a main content area. The main area is titled 'Problems' and features a breadcrumb trail: 'NY Datacenter' > 'Windows servers' > 'Kubernetes nodes'. The 'Kubernetes nodes' filter is highlighted with a blue box and a green dot, indicating it has been changed but not saved. Below the breadcrumb, there are several filtering options: 'Show' (Recent problems, Problems, History), 'Host groups' (Windows servers), 'Hosts', 'Triggers', 'Problem', 'Severity' (Not classified, Warning, High, Information, Average, Disaster), and 'Age less than' (14 days). On the right side, there are 'Host inventory' and 'Tags' filters, 'Show tags' (None, 1, 2, 3), 'Tag name' (Full, Shortened, None), 'Tag display priority' (comma-separated list), 'Show operational data' (None, Separately, With problem name), 'Show suppressed problems', 'Show unacknowledged only', 'Compact view', 'Show details', and 'Show timeline' (checked). At the bottom, there are 'Update', 'Apply', and 'Reset' buttons.

Zabbix 6.2

Digital clock widget

The clock widget has been extended with the new digital clock view:



The screenshot displays the Zabbix 6.2 interface. On the left is a dark blue sidebar with navigation options: Monitoring, Dashboard, Problems, Hosts, Latest data, Maps, Discovery, Services, Inventory, Reports, Configuration, and Administration. The main area shows a dashboard with several widgets. An 'Edit widget' dialog is open, showing configuration for a 'Clock' widget. The dialog includes fields for Name, Refresh interval, Time type, Clock type (Analog/Digital), and checkboxes for Date, Time, and Time zone. It also has sections for advanced configuration and background color, with sub-sections for Date, Time, and Time zone, each with size, bold, and color options. The dashboard background features a large status bar with a bar chart showing system status: 3 Available (green), 2 Not available (red), 979 Unknown (grey), and 984 Total (white). Below this, there are two rows of status widgets. The first row shows: 0 Master (red), 0 High (orange), 8 Average (orange), 5 Warning (yellow), 0 Information (blue), and 0 Not classified (grey). The second row shows: Zabbix server: Cluster node [rocky01]: Status (Active (3) ↓) and Zabbix server: Cluster node [rocky02]: Status (Standby (0) ↓). On the right side of the dashboard, there are two large digital clock widgets. The top one shows the date 2022-07-11, time 06:23:35, and location Edmonton. The bottom one shows the date 2022-07-11, time 14:23:35, and location Prague.

Edit widget configuration:

- Type: Clock
- Name: default
- Refresh interval: Default (15 minutes)
- Time type: Local time
- Clock type: Analog, Digital
- Show: Date, Time, Time zone
- Advanced configuration:
- Background color: D
- Date: Size 20%, Bold , Color D
- Time: Size 30%, Bold , Color D, Seconds , Format 24-hour, 12-hour
- Time zone: Size 20%, Bold , Color D, Time zone (UTC-06:00) America/Edmonton, Format Short, Full

Dashboard Status:

- 3 Available
- 2 Not available
- 979 Unknown
- 984 Total
- 0 Master
- 0 High
- 8 Average
- 5 Warning
- 0 Information
- 0 Not classified
- Zabbix server: Cluster node [rocky01]: Status: Active (3) ↓
- Zabbix server: Cluster node [rocky02]: Status: Standby (0) ↓

Digital Clocks:

- 2022-07-11 06:23:35 Edmonton
- 2022-07-11 14:23:35 Prague

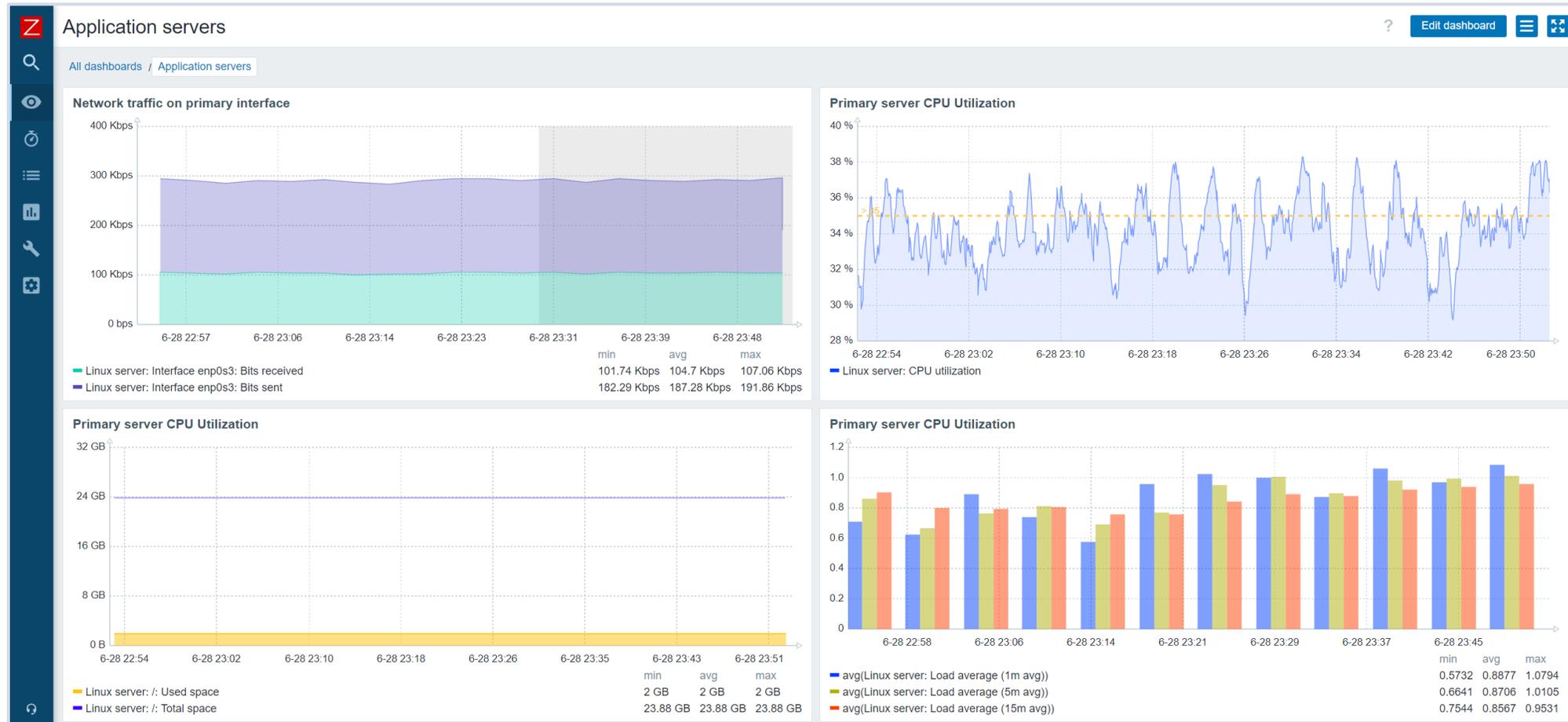
Zabbix 6.2

Graph widget improvements

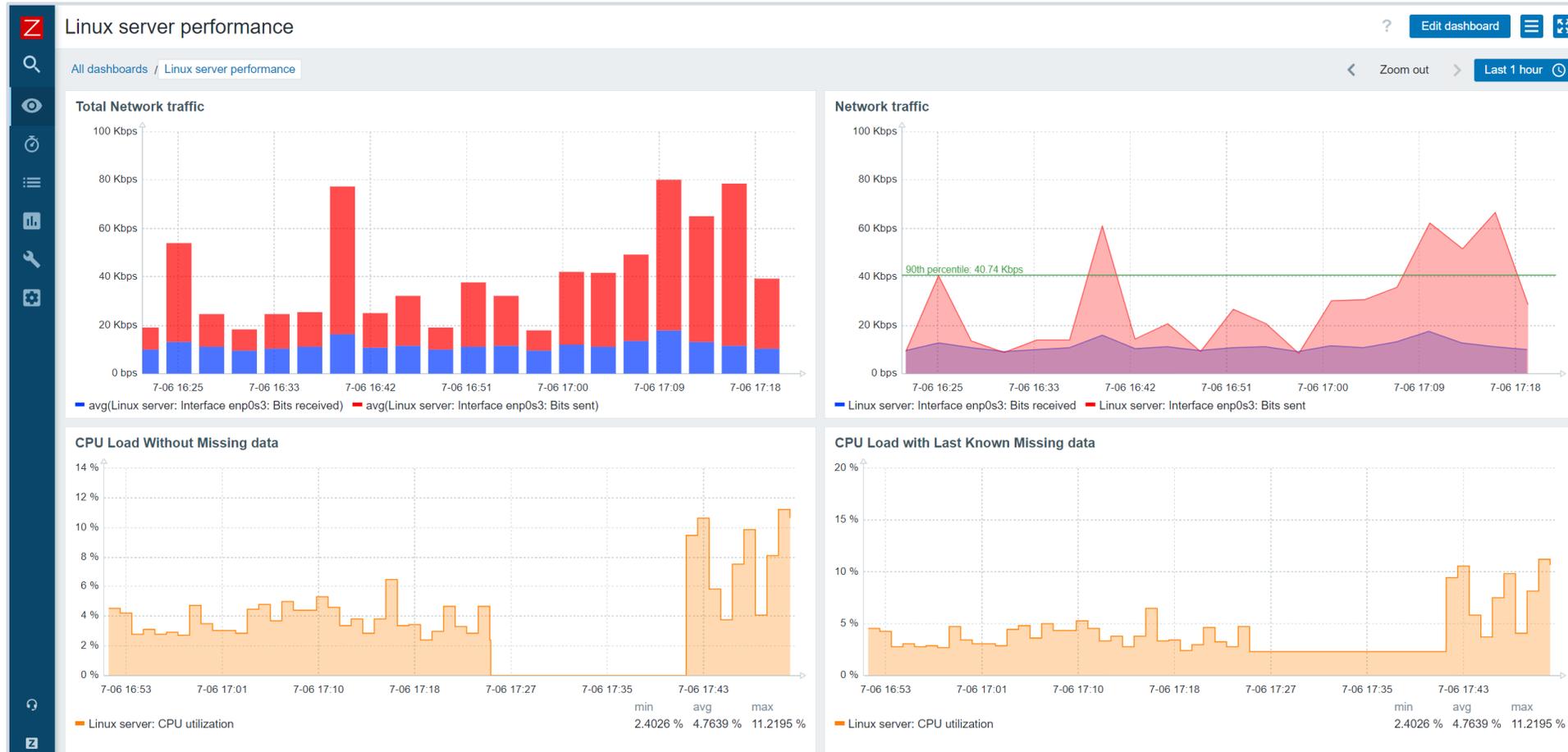
The graph widget has received multiple new features and improvements:

- › New type of dataset – item list
- › Ability to clone datasets
- › Stacked graphs
- › Display simple triggers on graphs
- › Display working time on graphs
- › Percentile lines
- › Improved legend with trend min/max/avg values
- › Display the last known value for missing data
- › Configurable approximation when too much data is displayed on graphs

Improved legend and stacked graphs



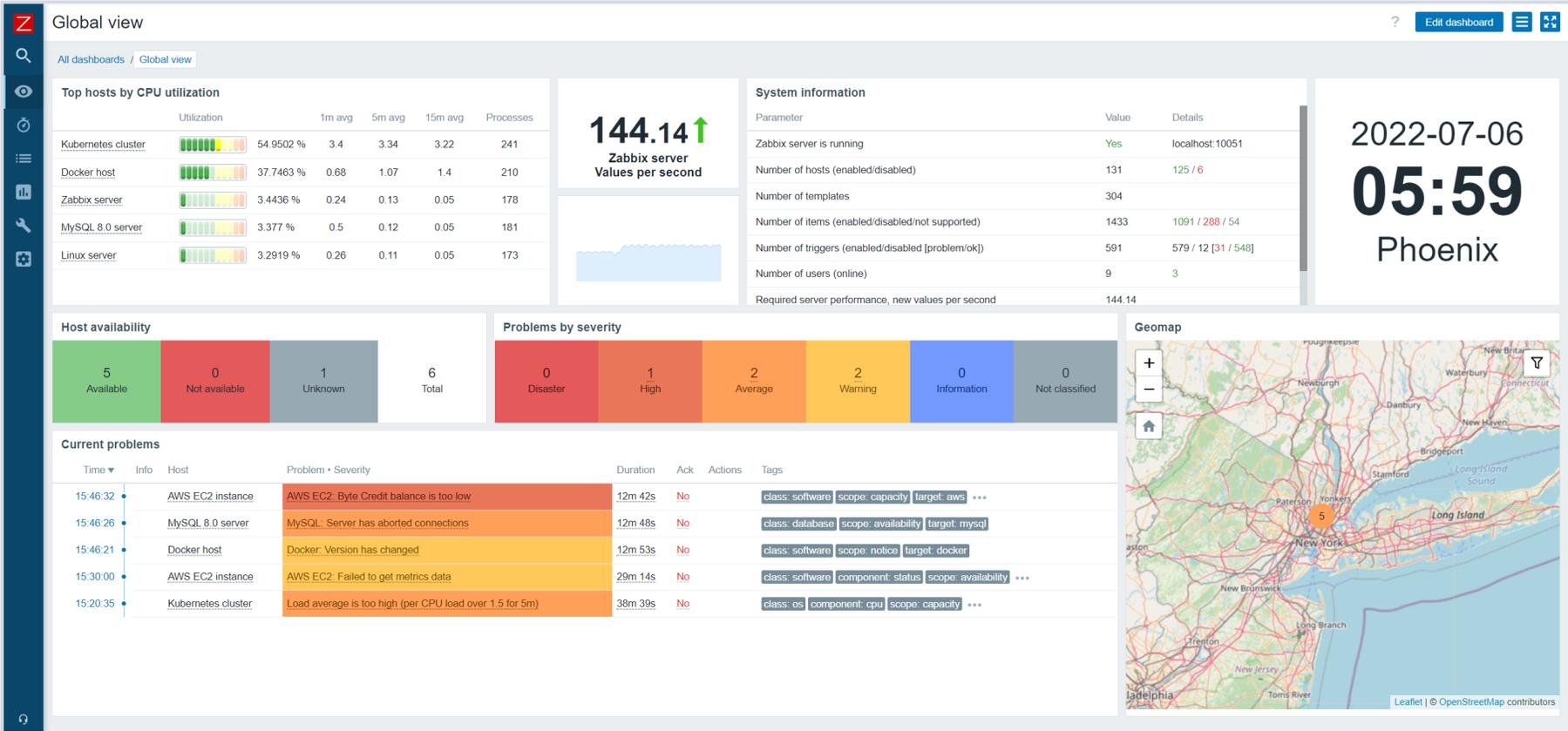
Missing data options and percentile line



Zabbix 6.2

New global view dashboard

- ▶ The default Zabbix Global dashboard has been redesigned to provide more useful information by using the latest Zabbix widgets:



The screenshot displays the Zabbix 6.2 Global view dashboard with the following components:

- Top hosts by CPU utilization:** A table showing CPU usage for various hosts.

Host	Utilization	1m avg	5m avg	15m avg	Processes
Kubernetes cluster	54.9502 %	3.4	3.34	3.22	241
Docker host	37.7463 %	0.68	1.07	1.4	210
Zabbix server	3.4436 %	0.24	0.13	0.05	178
MySQL 8.0 server	3.377 %	0.5	0.12	0.05	181
Linux server	3.2919 %	0.26	0.11	0.05	173
- Zabbix server Values per second:** A large widget showing a value of 144.14 with an upward arrow, indicating an increase.
- System information:** A table providing details about the Zabbix server.

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled)	131	125 / 6
Number of templates	304	
Number of items (enabled/disabled/not supported)	1433	1091 / 288 / 54
Number of triggers (enabled/disabled [problem/ok])	591	579 / 12 [31 / 548]
Number of users (online)	9	3
Required server performance, new values per second	144.14	
- Time and Location:** A large widget showing the date 2022-07-06, time 05:59, and location Phoenix.
- Host availability:** A bar chart showing 5 Available, 0 Not available, 1 Unknown, and 6 Total hosts.
- Problems by severity:** A bar chart showing 0 Disaster, 1 High, 2 Average, 2 Warning, 0 Information, and 0 Not classified problems.
- Current problems:** A table listing active issues.

Time	Info	Host	Problem · Severity	Duration	Ack	Actions	Tags
15:46:32		AWS EC2 instance	AWS EC2: Byte Credit balance is too low	12m 42s	No		class: software scope: capacity target: aws ***
15:46:26		MySQL 8.0 server	MySQL: Server has aborted connections	12m 48s	No		class: database scope: availability target: mysql
15:46:21		Docker host	Docker: Version has changed	12m 53s	No		class: software scope: notice target: docker
15:30:00		AWS EC2 instance	AWS EC2: Failed to get metrics data	29m 14s	No		class: software component: status scope: availability ***
15:20:35		Kubernetes cluster	Load average is too high (per CPU load over 1.5 for 5m)	38m 39s	No		class: os component: cpu scope: capacity ***
- Geomap:** A map showing the location of the Zabbix server in Phoenix, Arizona.

Zabbix 6.2

Number of items in monitoring - hosts

Number of items has been added next to the Latest data button under Monitoring - Hosts:

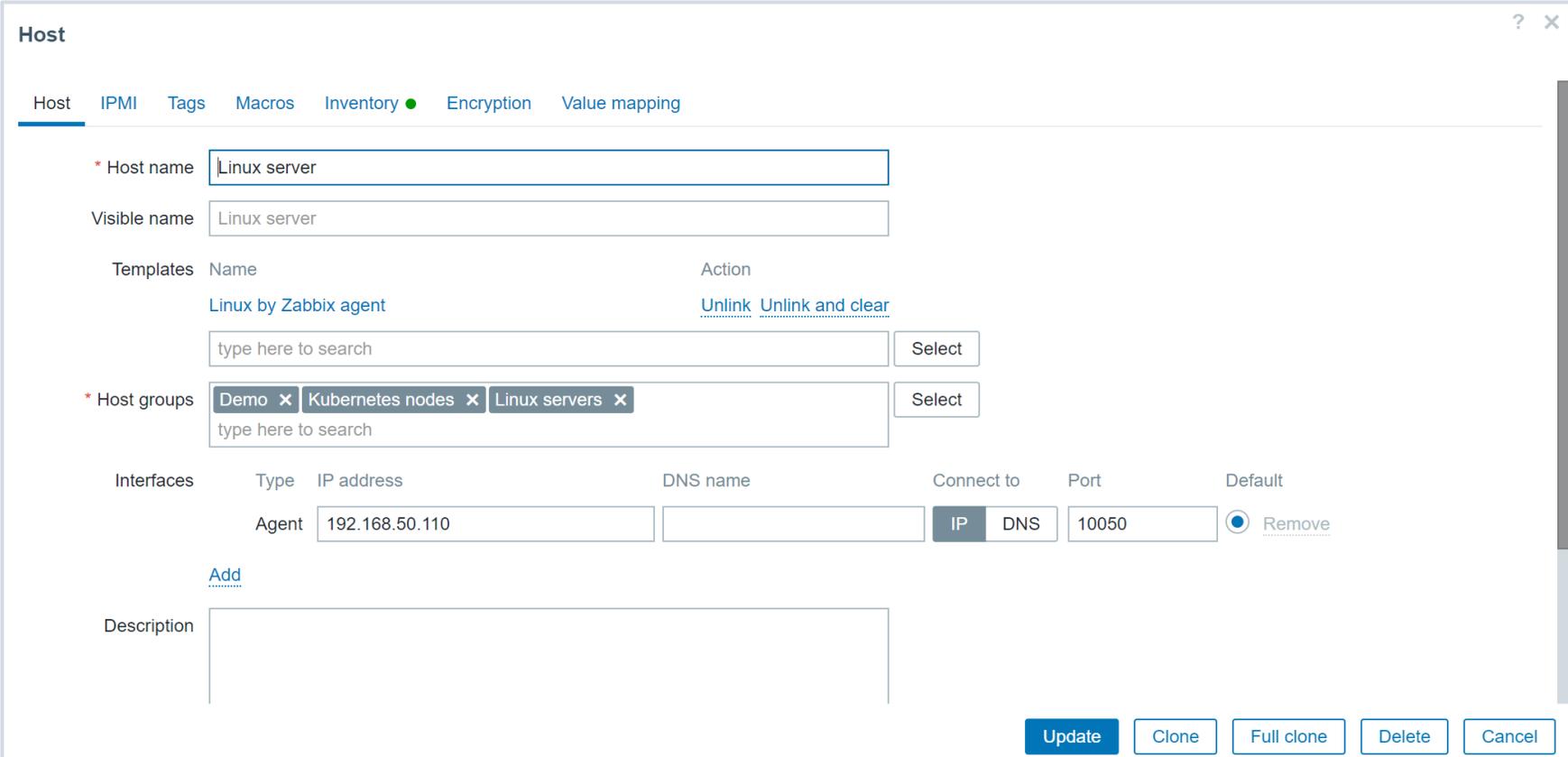
Name ▲	Interface	Availability	Tags	Status	Latest data	Problems	Graphs	Dashboards	Web
AWS EC 2			class: software target: aws target: ec2	Enabled	Latest data 29	Problems	Graphs 4	Dashboards	Web
HPE MSA 2040	192.168.3.111:10050	ZBX	class: storage target: hpe target: msa-2040	Enabled	Latest data 10	Problems	Graphs	Dashboards	Web
Linux server	192.168.50.110:10050	ZBX	class: os target: linux	Enabled	Latest data 68	Problems	Graphs 14	Dashboards 2	Web
MySQL server	192.168.50.49:10050	ZBX	class: database target: mysql	Enabled	Latest data 48	1	Graphs 6	Dashboards 1	Web
Pfsense router Office	192.168.50.131:161	SNMP	class: software target: pfsense	Enabled	Latest data 18	1	Graphs 1	Dashboards	Web
Windows server	192.168.50.140:10050	ZBX	class: os target: windows	Enabled	Latest data 155	4 1	Graphs 24	Dashboards 2	Web
Zabbix server	127.0.0.1:10050	ZBX	class: os class: software target: linux ...	Enabled	Latest data 129	1	Graphs 25	Dashboards 4	Web

Displaying 7 of 7 found

Zabbix 6.2

Links to documentation in all ui forms

Help icons have been added to all UI forms, to make Zabbix features more accessible to new users:



The screenshot shows the Zabbix Host configuration form. The title bar includes a help icon (question mark) and a close icon (X). The form has several sections:

- Host name:** A text input field containing "Linux server".
- Visible name:** A text input field containing "Linux server".
- Templates:** A table with columns "Name" and "Action". The "Name" column contains "Linux by Zabbix agent". The "Action" column contains "Unlink" and "Unlink and clear". Below the table is a search input field with the placeholder "type here to search" and a "Select" button.
- Host groups:** A multi-select field containing "Demo", "Kubernetes nodes", and "Linux servers". Below it is another search input field with the placeholder "type here to search" and a "Select" button.
- Interfaces:** A table with columns: Type, IP address, DNS name, Connect to, Port, and Default. The "Type" column contains "Agent". The "IP address" column contains "192.168.50.110". The "DNS name" column is empty. The "Connect to" column contains "IP" and "DNS". The "Port" column contains "10050". The "Default" column contains a radio button and the text "Remove".
- Description:** A large text area with the placeholder "Add".

At the bottom of the form, there are several buttons: "Update", "Clone", "Full clone", "Delete", and "Cancel".

14

Demo





Questions?



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