

The ZABBIX logo is displayed in white uppercase letters on a red rectangular background. The background of the entire slide features a dark blue globe with a network of white lines connecting various points, suggesting a global network or data flow.

**ZABBIX**

# Where we currently stand and the road ahead

**Alexei Vladishev**  
Founder, CEO

# MONITORING CHALLENGES

## The Multiple Tools Problem

Missing Single Pane of glass

Lack of **centralized** visualisation and reporting

Missing total visibility

## Security, scalability and high availability

**Growing number of devices, networks, increasing complexity**

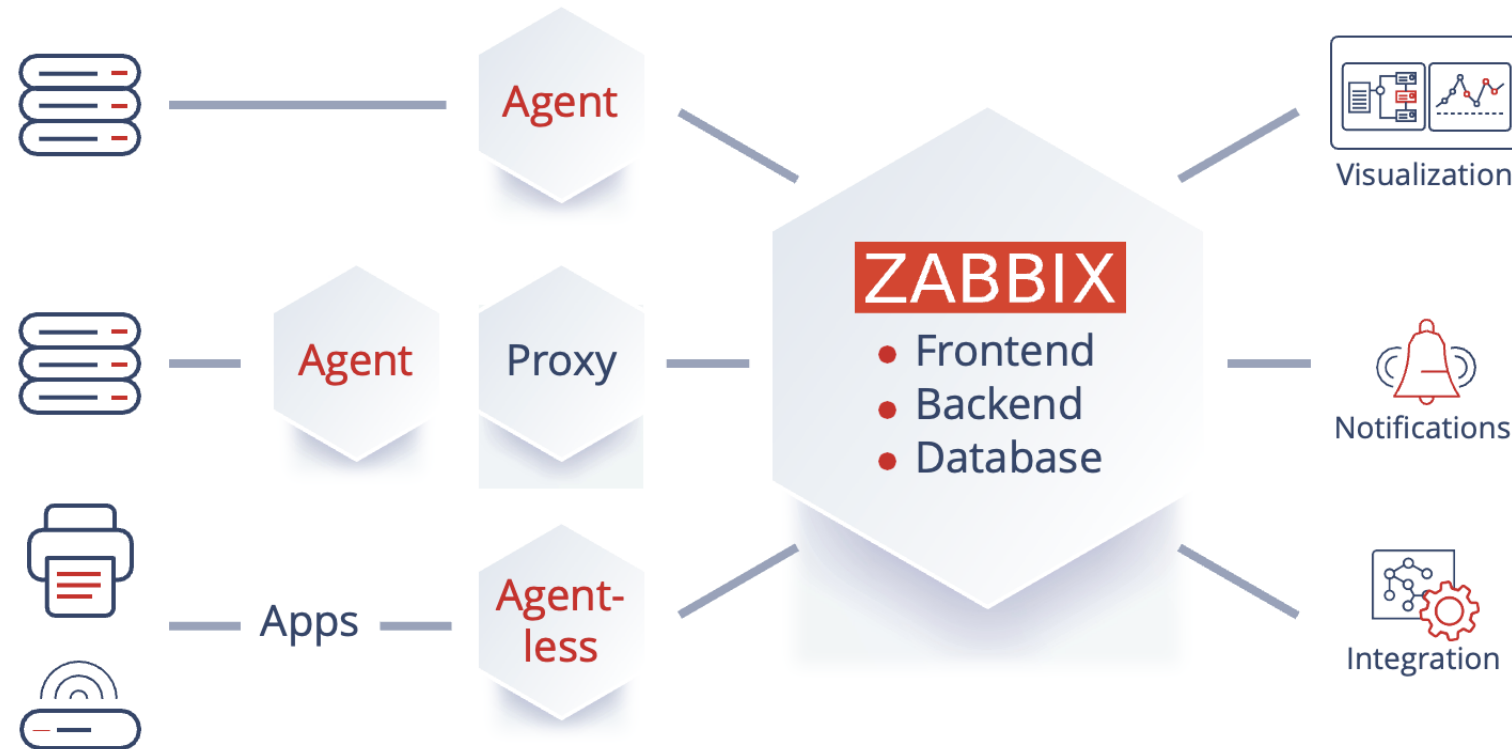
## Pro-active problem resolution is critical

**Cost effectiveness**



Zabbix is a **Universal** Open Source  
enterprise-level monitoring solution

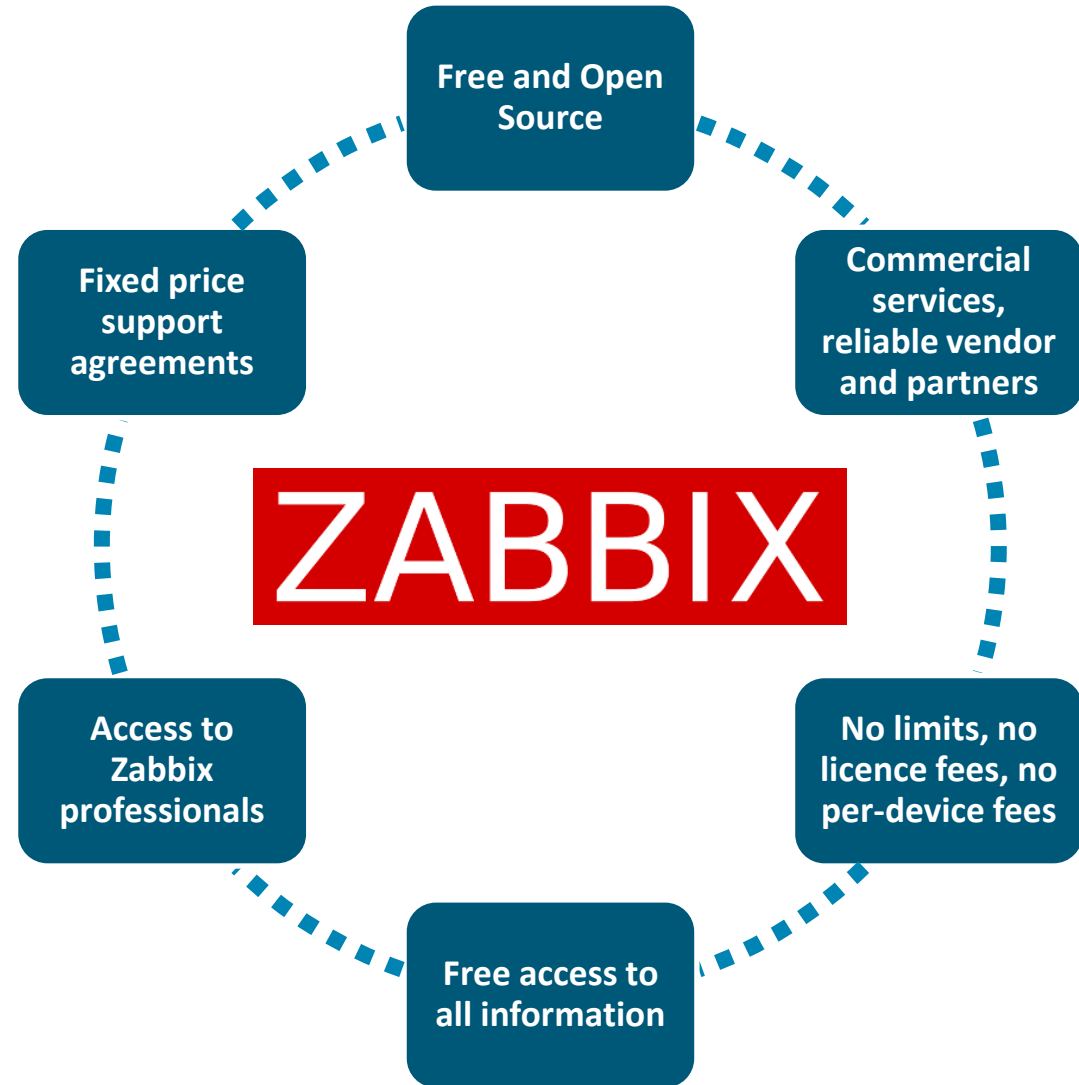
# All-in-one monitoring platform



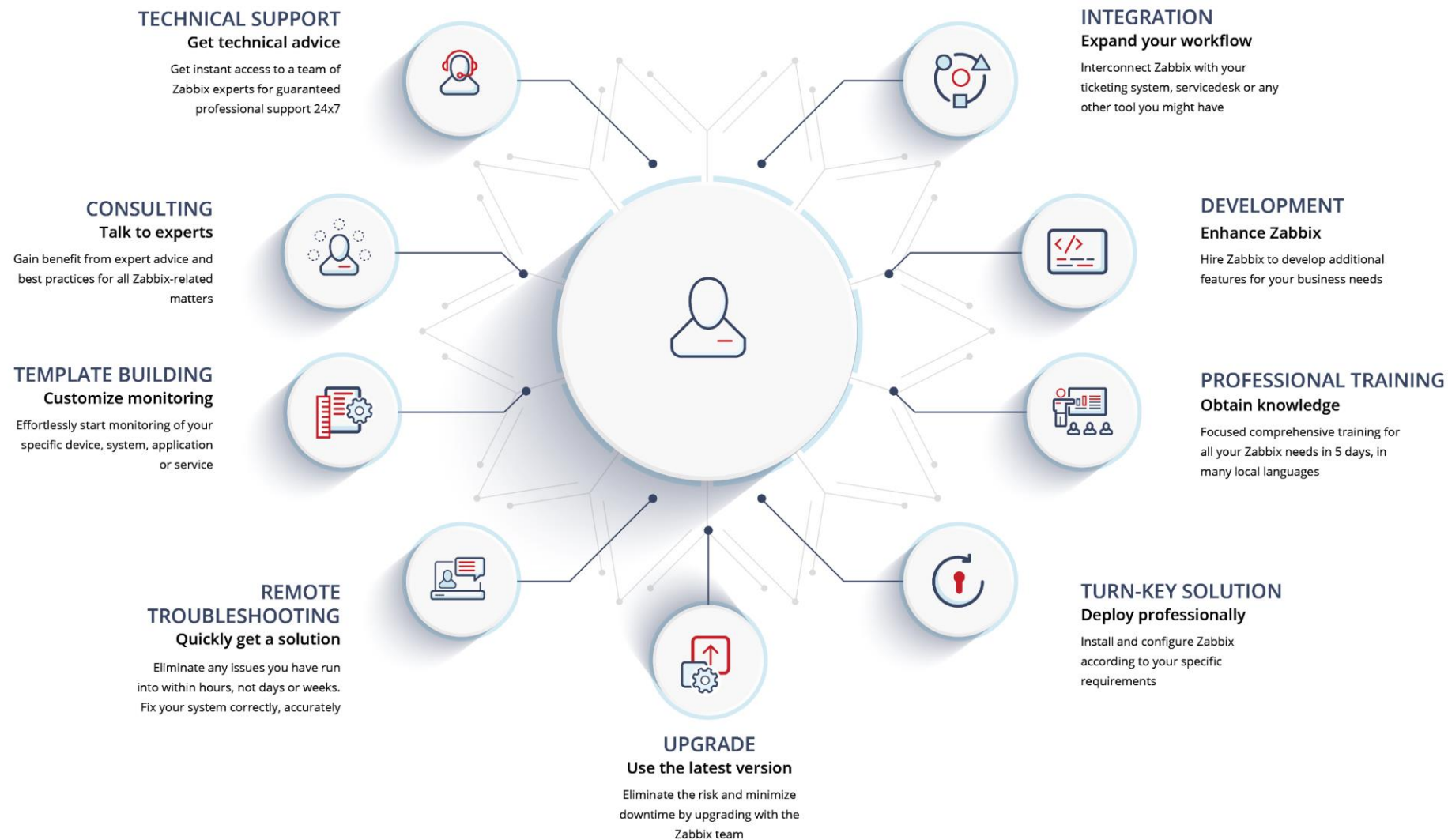
**Data collection -> Real-time data processing -> [Actions & Visualization]**

# COST OF ZABBIX

Exceptionally low TCO



# YOU'RE COVERED: 24X7 PROFESSIONAL SERVICES

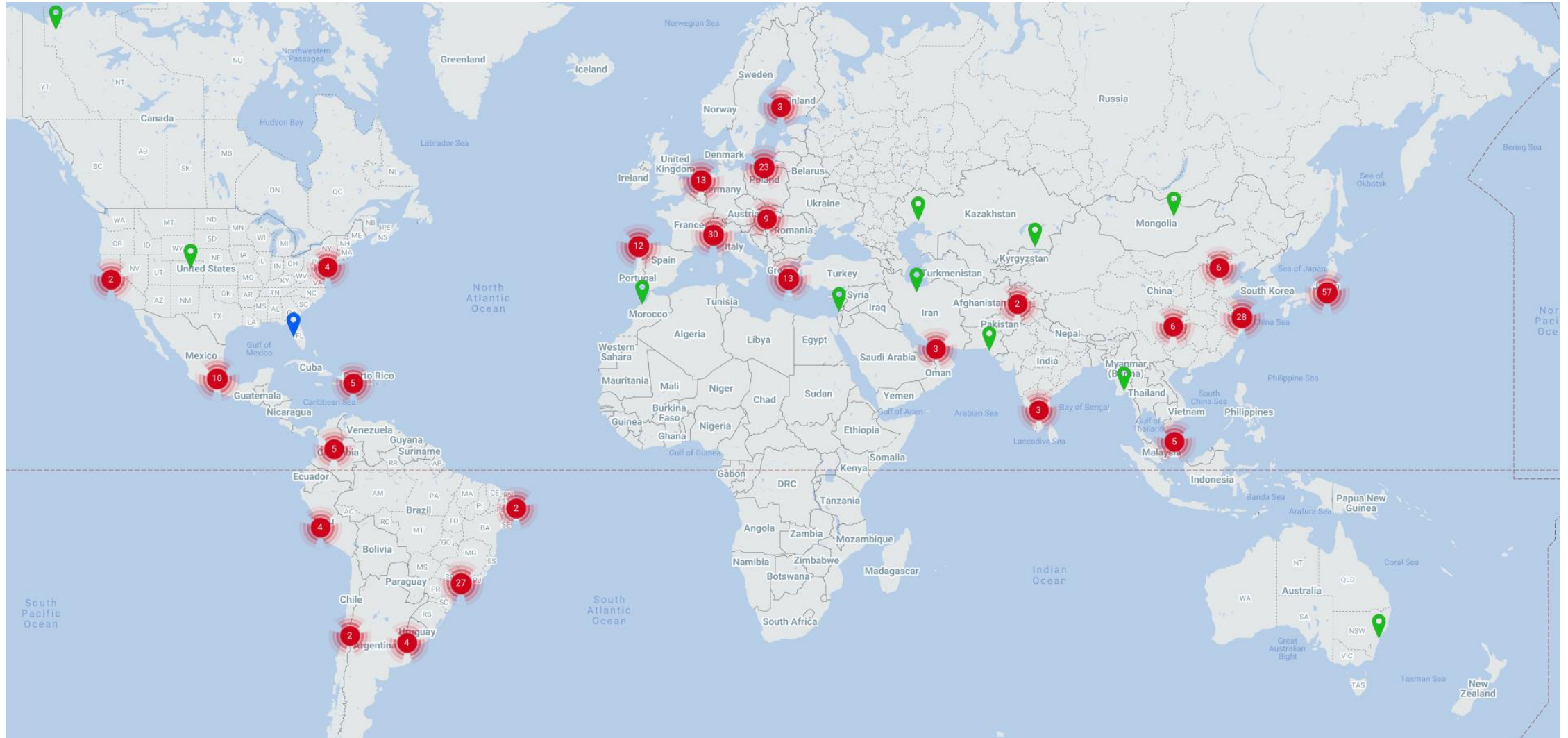








# 250 PARTNERS AROUND THE WORLD





# ZABBIX SCALABILITY

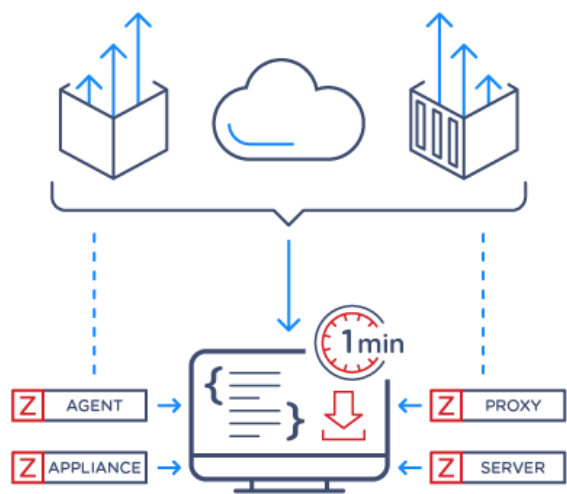


Single Zabbix server

550K+ of devices

30K+ proxies

10M+ items



# Deploy anywhere

## DEPLOY ON-PREMISE



## DEPLOY IN THE CLOUD



























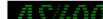













































































































# Monitor anything

Legacy and modern systems, ready for the future

# OUT OF THE BOX MONITORING

 .NET	 1C:Предприятие	 Active Directory	 ActiveMQ	 Alcatel Lucent	 Cloudstack	 ClusterControl	 Confluence	 Cooling	 CoreOS	 HTTP	 HTTPS	 Huawei
 Alerta	 Android	 Ansible	 Antivirus	 Apache	 Couchbase	 cPanel	 D-Link	 Database monitoring	 Datacom	 IBM AIX	 IBM AS/400	 IBM MQ
 APC	 Appdynamics	 Application monitoring	 Arduino	 Arista	 DB2	 Debian	 Dell	 DNS	 Docker	 Ingress	 Intel	 InterSystems
 Aruba	 Asterisk	 Avaya	 AWS	 AWS CloudWatch	 Drupal	 Elasticsearch	 Eltex	 EMC	 Emerson	 IRC	 Jabber	 JasperReports
 AWS EC2	 AWS S3	 Backup	 Bacula	 Barracuda	 Exim	 Extreme Networks	 F5 Networks	 Facebook Messenger	 Fedora	 JBoss	 Jenkins	 Jira
 Bigpanda	 Blue Coat	 BMC Remedy	 BorgBackup	 Brocade	 firebird	 Firewalls	 Flowdock	 Fortinet	 FreeBSD	 Julia	 Juniper	 Kafka
 Buffalo	 Bugzilla	 C#	 Capacity planning	 Cassandra	 FreshDesk	 Fujitsu Siemens	 Galera cluster	 Geckboard	 Git	 Kubernetes	 KVM	 Kyocera
 Centos	 Ceph	 Check Point	 Chef	 Chrome extension	 Glassfish	 GLPI	 Go	 Google Apps	 Google Cloud	 Lenovo	 Lexmark	 Lighttpd
 Cisco	 Citrix	 Cloud Foundry	 Cloud monitoring	 Cloudera	 Google Maps	 Grafana	 Graylog	 Hadoop	 HAProxy	 Logstash	 Lucidworks	 LXC
 Cloudstack	 ClusterControl	 Confluence	 Cooling	 CoreOS	 High Availability	 Hipchat	 Hitachi HDS, HNAs	 HP Enterprise	 HP-UX	 Mattermost	 Mellanox	 Memcached

[zabbix.com/integrations](https://zabbix.com/integrations)

# RECENT ADDITIONS





# CMDB AND TICKETING



# ALERTING

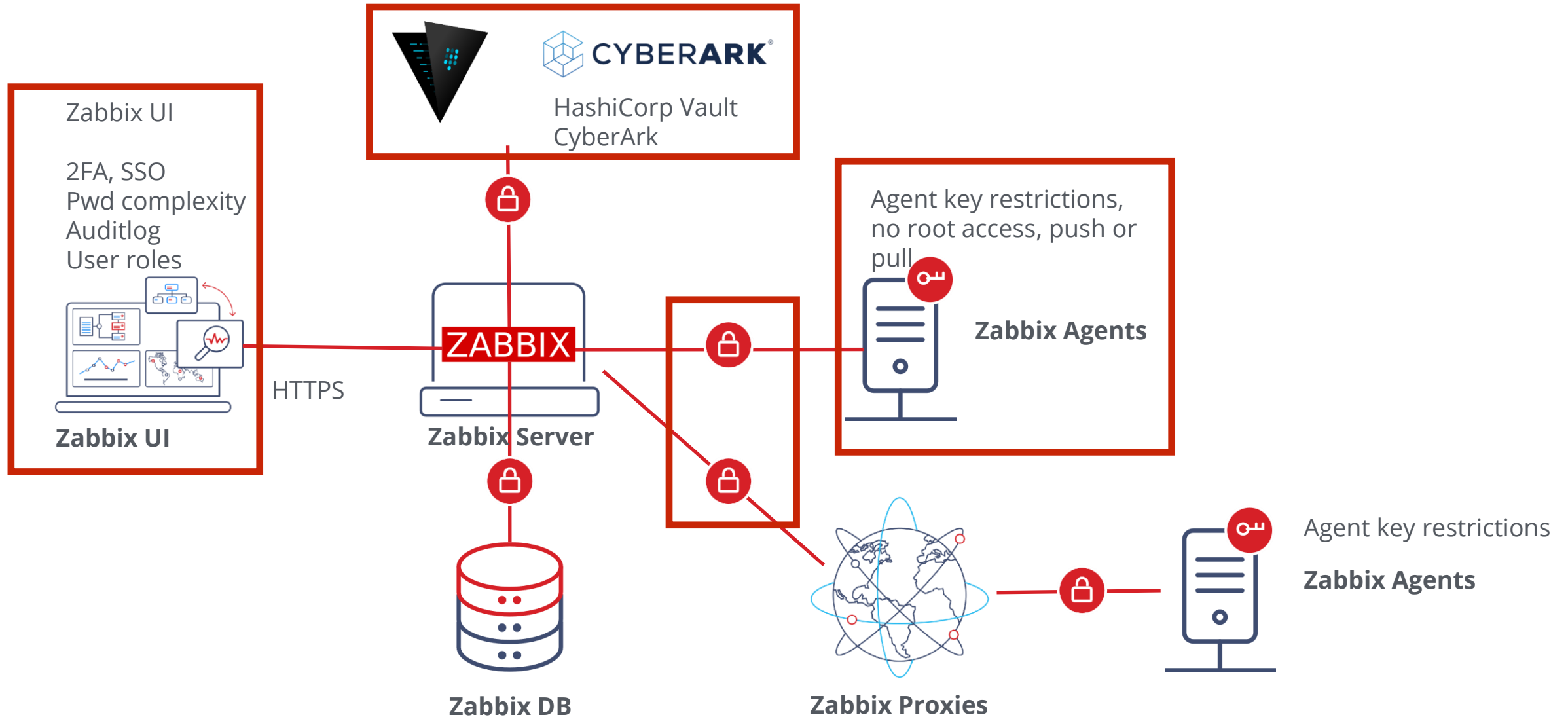




# Security on all levels

Highest security standards, verified by independent researchers

# SECURE BY DESIGN







Bug bounty

ISO/IEC 27001

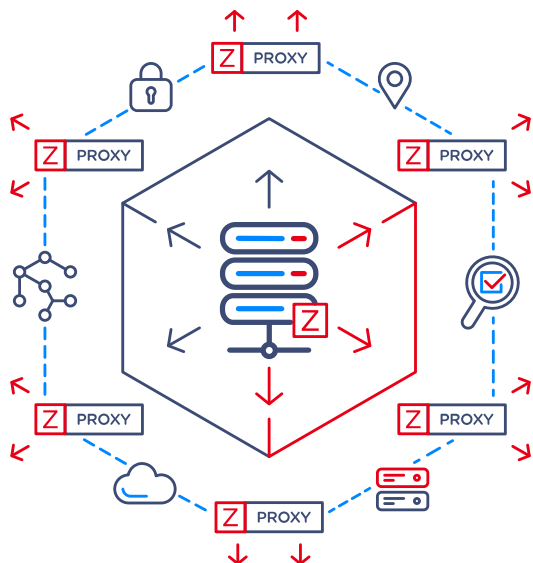
# Zabbix Security Advisories and CVE database

[How to report a security issue?](#)

[Zabbix versions \(7\)](#) 

Zabbix ID	CVE number	CVSS	Zabbix	Synopsis	Component/s	Affected version/s	Published
<a href="#">ZBV-2022-12-1</a>	CVE-2022-43516			<p><b>CVE/Advisory number:</b> CVE-2022-43516</p> <p><b>Synopsis:</b> Zabbix Agent installer adds “allow all TCP any any” firewall rule</p> <p><b>Description:</b> A Firewall Rule which allows all incoming TCP connections to all programs from any source and to all ports is created in Windows Firewall after Zabbix agent installation (MSI)</p> <p><b>Known Attack Vectors:</b> An attacker can connect to all TCP services running on the machine with Zabbix Agent</p> <p><b>Resolution:</b> To remediate this vulnerability, apply the updates listed in the 'Fixed Version' section to appropriate products or use the workaround</p> <p><b>Workarounds:</b> If an immediate update is not possible, change the applied local firewall rule to allow the agent port only.</p> <p><b>Acknowledgements:</b> Joshua PowellNishiyama</p>		MSI pkg. 29.oct.22 - 2.dec.22)	2022 Nov 30
<a href="#">ZBA-2022-10-1</a>	-					v6.0.8 (Solaris) versions 31/Oct/2022	2022 Oct 31
<a href="#">ZBV-2022-10-1</a>	CVE-2022-40626					6.0-4.0.44 6.0-5.0.29 6.0-6.0.9 6.0-6.2.4	2022 Oct 18
<a href="#">ZBV-2022-09-1</a>	CVE-2022-2068					6.0-6.0.11 6.2.0-6.2.5	2022 Sep 21
<a href="#">ZBA-2022-07-1</a>	-	-		Zabbix products are not affected by CVE-2022-2068 vulnerability in OpenSSL	-	-	2022 Jul 26
<a href="#">ZBV-2022-07-1</a>	CVE-2022-40626	4.8	Medium	Reflected XSS in action configuration window of Zabbix Frontend	Frontend	6.0.0-6.0.6 6.2.0	2022 Jul 08

[zabbix.com/security\\_advisories](https://zabbix.com/security_advisories)



# Solution for **MSPs**

Better QoS, additional revenue stream



# EARLY PROBLEM DETECTION, USEFUL INSIGHTS



**Baseline:** New user registrations is down 12% last week

**Anomaly:** Sudden anomaly detected in S3 usage

**Trend prediction:** Running out of EC2 instances next week

## Granular control of user permissions

## User roles

\* Name

Customers

User type

User

Access to UI elements

Monitoring

☒ Dashboard

☐ Overview

☐ Maps

☒ Problems

☐ Latest data

☐ Discovery

☐ Hosts

☐ Screens

☐ Services

Inventory

☐ Overview

☐ Hosts

Reports

☐ System information

☐ Audit

☐ Availability report

☐ Action log

☐ Triggers top 100

☐ Notifications

Configuration

☐ Host groups

☐ Maintenance

☐ Discovery

☐ Templates

☐ Actions

☐ Services

☐ Hosts

☐ Event correlation

Administration

☐ General

☐ User groups

☐ Media types

☐ Proxies

☐ User roles

☐ Scripts

☐ Authentication

☐ Users

☐ Queue

\* At least one UI element must be checked.

Default access to new UI elements☒

Access to modules

No enabled modules found.

Default access to new modules☒

Access to API

Enabled☒

API methods

Allow listDeny list

host.get✕item.get✕

type here to search

Select

Access to actions

☒ Create and edit dashboards and screens

# SCHEDULED PDF REPORTS

Can be applied to **any dashboard**

Accessible to all users

Use user roles to restrict access

Daily, weekly, monthly or yearly

**ZABBIX** << >> Scheduled reports ? Create report

Filter

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

**Apply** **Reset**

<input type="checkbox"/> Name ▲	Owner	Repeats	Period	Last sent	Status	Info
<input type="checkbox"/> Daily report	alex (Alexei)	Daily	Previous day	2022-09-01 09:00	Enabled	
<input type="checkbox"/> Monthly management report	alex (Alexei)	Daily	Previous month	2022-10-03 09:00	Enabled	<span style="color: red;">i</span>
<input type="checkbox"/> Weekly operational report	alex (Alexei)	Weekly	Previous day	Never	Enabled	

0 selected **Enable** **Disable** **Delete**

Displaying 3 of 3 found

Zabbix 6.4.0beta2. © 2001–2022, Zabbix SIA

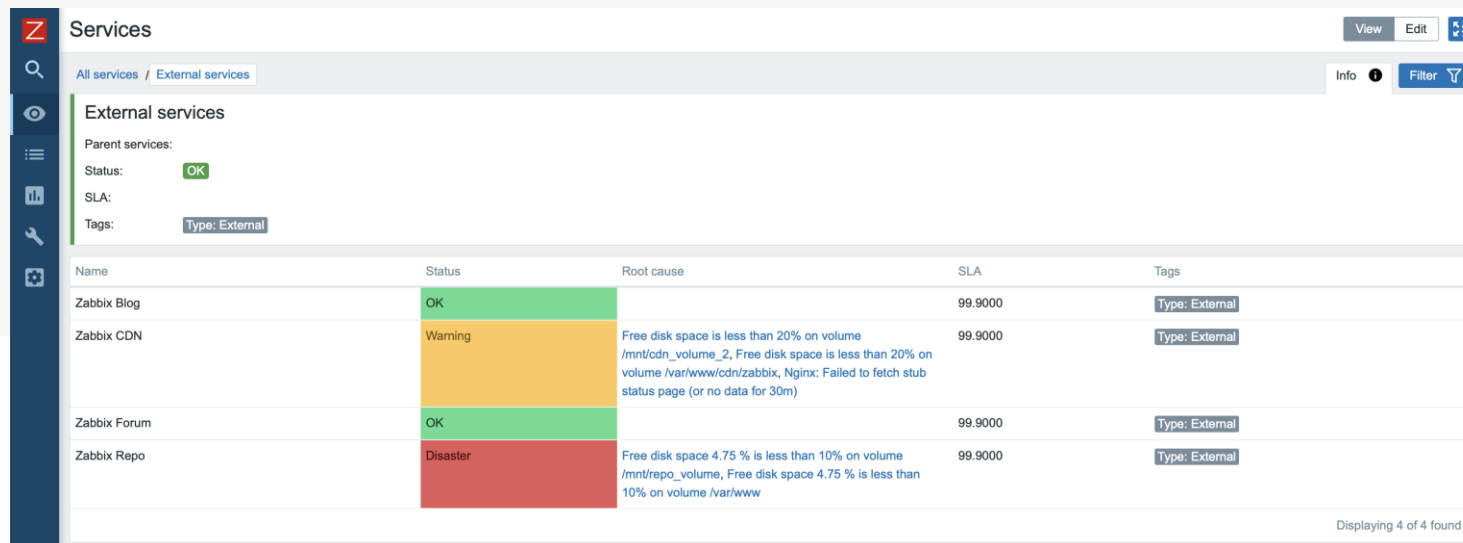
# BUSINESS SERVICE MONITORING (BSM)

Complex **SLO** definitions for **100K+** services

SLA real-time and scheduled reporting

Multi-tenancy using flexible user roles

Alerting, **root cause** and **impact analysis**



The screenshot displays the Zabbix BSM interface. On the left is a sidebar with navigation icons. The main panel is titled 'Services' and shows a list of 'External services'. Above the table, there are filters for 'All services' and 'External services', and buttons for 'View', 'Edit', 'Info', and 'Filter'. The table has columns for Name, Status, Root cause, SLA, and Tags. It lists four services: Zabbix Blog (OK), Zabbix CDN (Warning), Zabbix Forum (OK), and Zabbix Repo (Disaster). The 'Root cause' column provides detailed error messages for the non-OK services.

Name	Status	Root cause	SLA	Tags
Zabbix Blog	OK		99.9000	Type: External
Zabbix CDN	Warning	Free disk space is less than 20% on volume /mnt/cdn_volume_2, Free disk space is less than 20% on volume /var/www/cdn/zabbix, Nginx: Failed to fetch stub status page (or no data for 30m)	99.9000	Type: External
Zabbix Forum	OK		99.9000	Type: External
Zabbix Repo	Disaster	Free disk space 4.75 % is less than 10% on volume /mnt/repo_volume, Free disk space 4.75 % is less than 10% on volume /var/www	99.9000	Type: External

Displaying 4 of 4 found



# MONITORING AS A REVENUE STREAM FOR MSP

Added-value service

Customer portal, a combination of

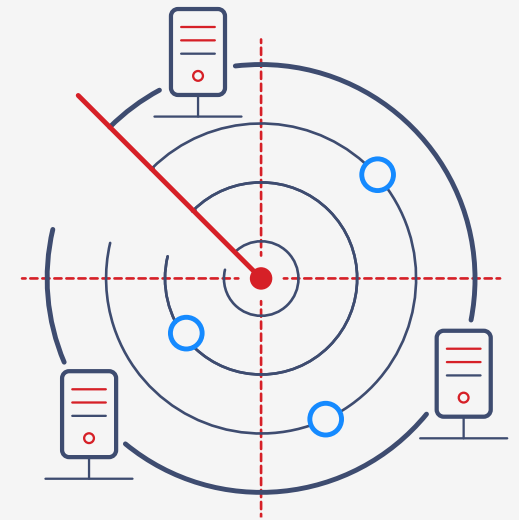
- user roles for read-only access to dashboards and customized UI

- re-branding options

- SLA reporting

- scheduled reports

Professional services tailored to MSPs







# Data processing platform

Real-time data collection and processing

# ZABBIX FEATURES

All benefits of Zabbix in one place

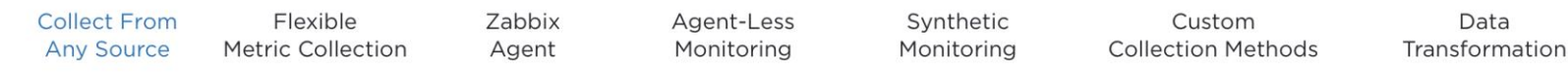
Use as a reference

Answers many FAQs

[zabbix.com/features](https://zabbix.com/features)



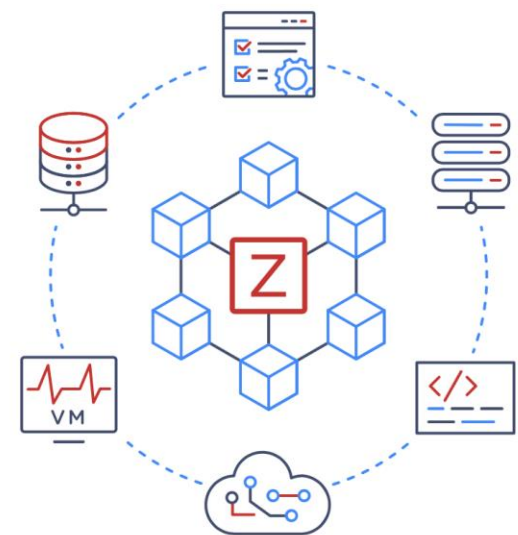
Keep control of your infrastructure by collecting  
any metric from any source



## Collect metrics from any source

Zabbix enables you to collect metrics but isn't limited to:

- ✓ Network devices
- ✓ Cloud services, containers, virtual machines
- ✓ OS level monitoring
- ✓ Log files
- ✓ Databases
- ✓ Applications
- ✓ Services
- ✓ IoT sensors
- ✓ Web page monitoring
- ✓ HTTP/HTTPS endpoint monitoring
- ✓ Support for full range of industry standard protocols
- ✓ Collect data from external API end-points



6.0 LTS 6.2 6.4 7.0 LTS



# Zabbix 6.4

A huge step ahead

# ZERO-DOWNTIME UPGRADE OF PROXIES

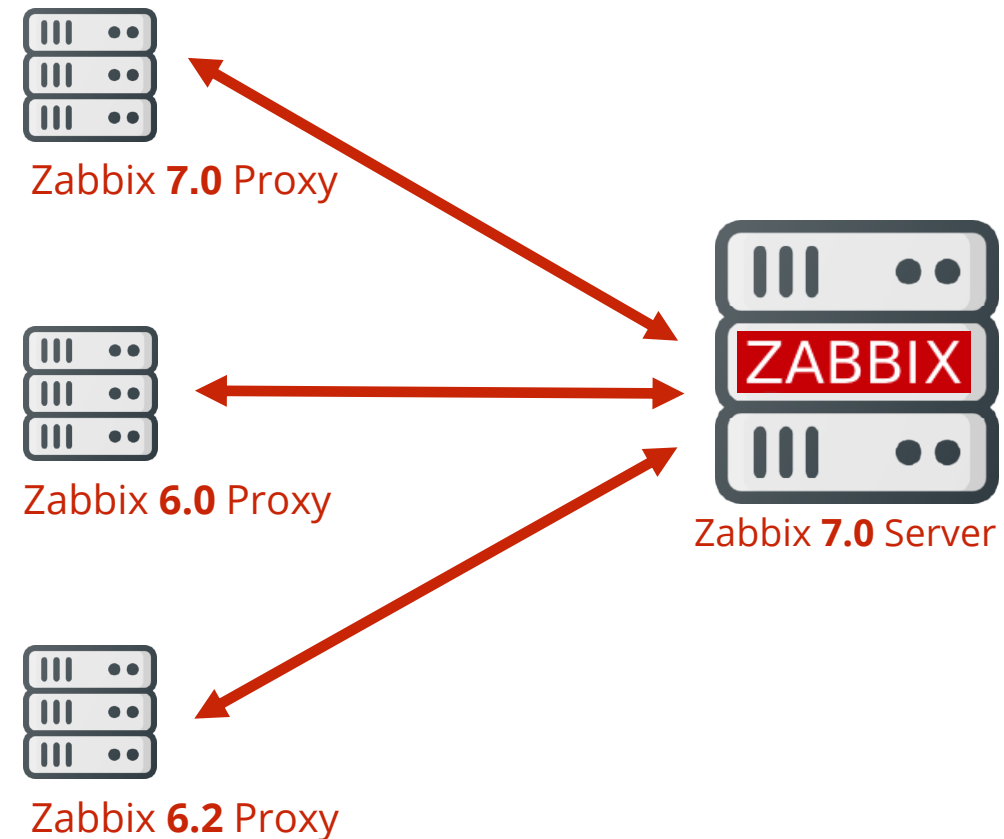
## Before Zabbix 6.4:

All Zabbix components (except agents) must be upgraded simultaneously

## Zabbix 6.4:

Older proxies will **continue to process data**

Creates a longer **time window** for upgrade





# THE CONCEPT OF CAUSE AND SYMPTOM EVENTS

	Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
<input type="checkbox"/>	2022-09-09 07:44:56	Warning		PROBLEM		Zabbix server	High swap space usage (less than 50% free)	11d 4h 53m	No		class: os component: memory component: storage ...
<input type="checkbox"/>	2022-09-07 15:26:10	Average		PROBLEM		Apache	Interface eno1: Link down	11d 23h 12m	No		
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average		PROBLEM		Apache	Service is down	11d 23h 38m	No		
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average		PROBLEM		Apache	Failed to fetch status page	11d 23h 38m	No		
<input type="checkbox"/>	2022-09-09 07:44:50	Information		PROBLEM		Zabbix server	System name has changed	10d 7h 23m	No		class: os component: memory component: storage ...

2 selected

Mass update

VIEW

Problems

CONFIGURATION

Trigger

Items

PROBLEM

Mark as cause

Mark selected as symptoms

LINKS

Trigger URL

Displaying 5 of 5 found

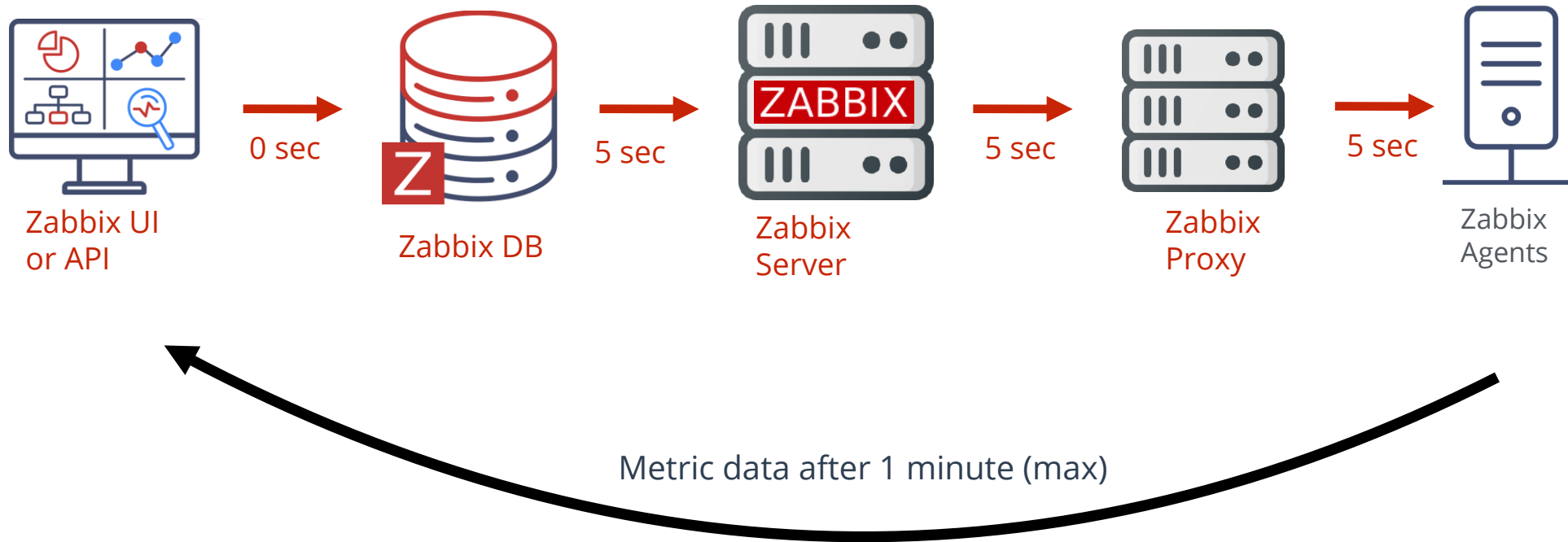
	Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
<input type="checkbox"/>	2022-09-09 07:44:56	Warning		PROBLEM		Zabbix server	High swap space usage (less than 50% free)	10d 7h 23m	No		class: os component: memory component: storage ...
<input checked="" type="checkbox"/>	2022-09-07 15:26:10	Average		PROBLEM		Apache	Interface eno1: Link down	11d 23h 42m	No		
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average		PROBLEM		Apache	Service is down	11d 23h 38m	No		
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average		PROBLEM		Apache	Failed to fetch status page	11d 23h 38m	No		
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average		PROBLEM		Apache	Service is down	11d 23h 38m	No		
<input checked="" type="checkbox"/>	2022-09-07 15:26:06	Average		PROBLEM		Apache	Failed to fetch status page	11d 23h 38m	No		
<input type="checkbox"/>	2022-09-09 07:44:56	Information		PROBLEM		Zabbix server	System name has changed	10d 7h 23m	No		class: os component: memory component: storage ...

Displaying 5 of 5 found

# INSTANT CONFIGURATION UPDATE

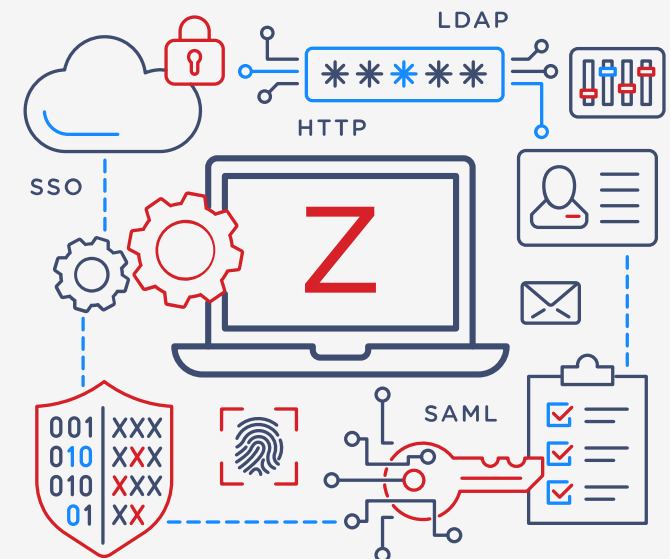
Configuration sync will support **incremental updates**

New items are now checked **within a minute** after creation



## ZABBIX CONFERENCE BENELUX

## Automatic mapping of user rights to user groups



# REAL-TIME DATA **STREAMING**

Connectors for real-time streaming of metrics and events



Zabbix  
Server



New connector

\* Name

Protocol Zabbix Streaming Protocol v1.0

Data type ☒ Item values ☐ Trigger events

\* URL

Tag filter ☒ And/Or ☐ Or

Equals  [Remove](#)

[Add](#)

# TEMPLATE VERSIONING

Information about 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





# What's next?

Zabbix 7.0 LTS and more

# Main vectors

More value for the enterprise

General usability: UX and UI, ease of use

Cloud monitoring, visualization and reporting

Event and problem handling and processing

Extending scope of monitoring: compliance monitoring, APM, IoT, advanced log monitoring, public and hybrid cloud monitoring

Extendability on all levels: pluggable storage engines, agent plugins+UI modules+3rd party widgets, webhooks

HA, scalability and load balancing

# ADVANCED EVENT CORRELATION

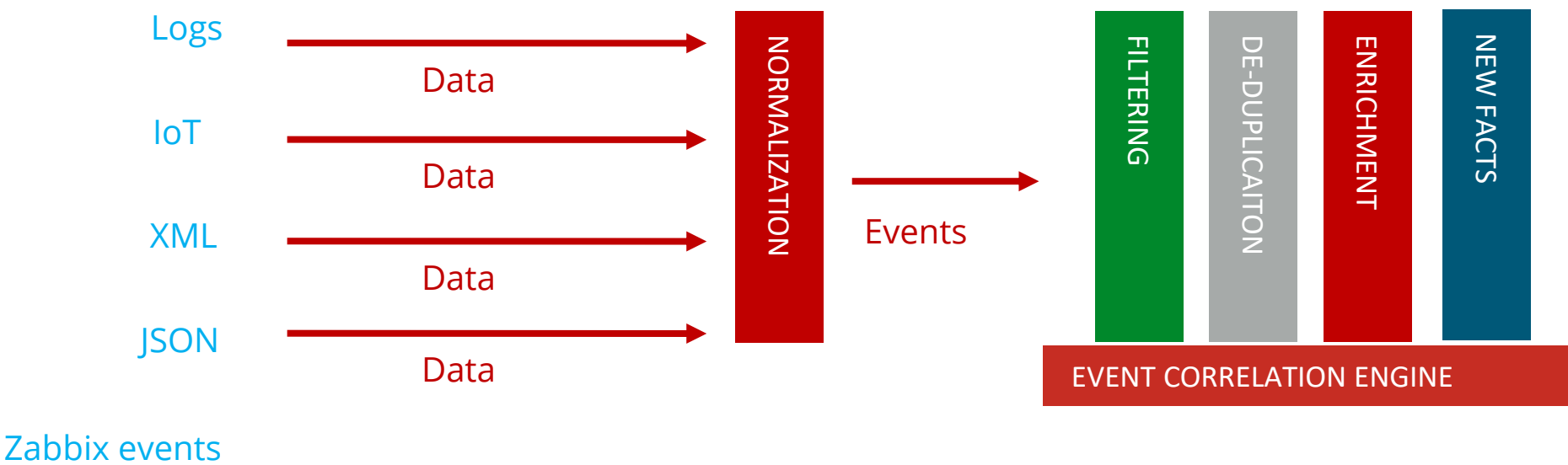
Zabbix 7.x

Tag based event pre-processing and correlation

Event filtering, de-duplication, enrichment

Normalization and noise reduction

Generation of new facts

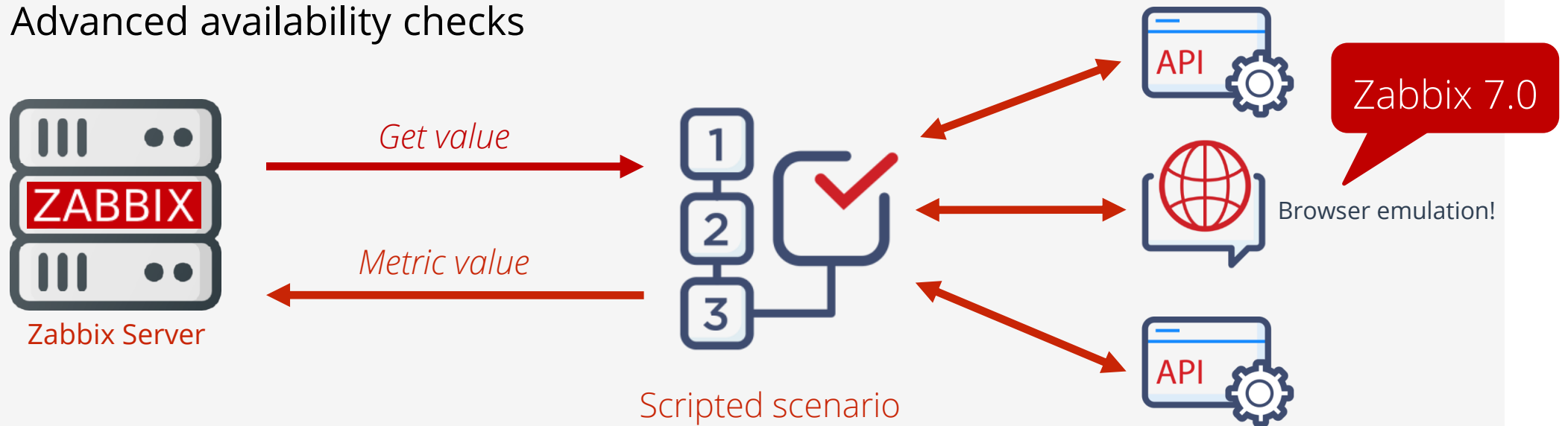


# ADVANCED SYNTHETIC MONITORING

Complex interaction with Cloud APIs over HTTPS: AWS, Azure, GCP

Multi-step scripted data collection

Advanced availability checks



# SINGLE PANE OF GLASS: VISUALIZATION

New set of widgets

Dashboards navigation

Advanced widgets:

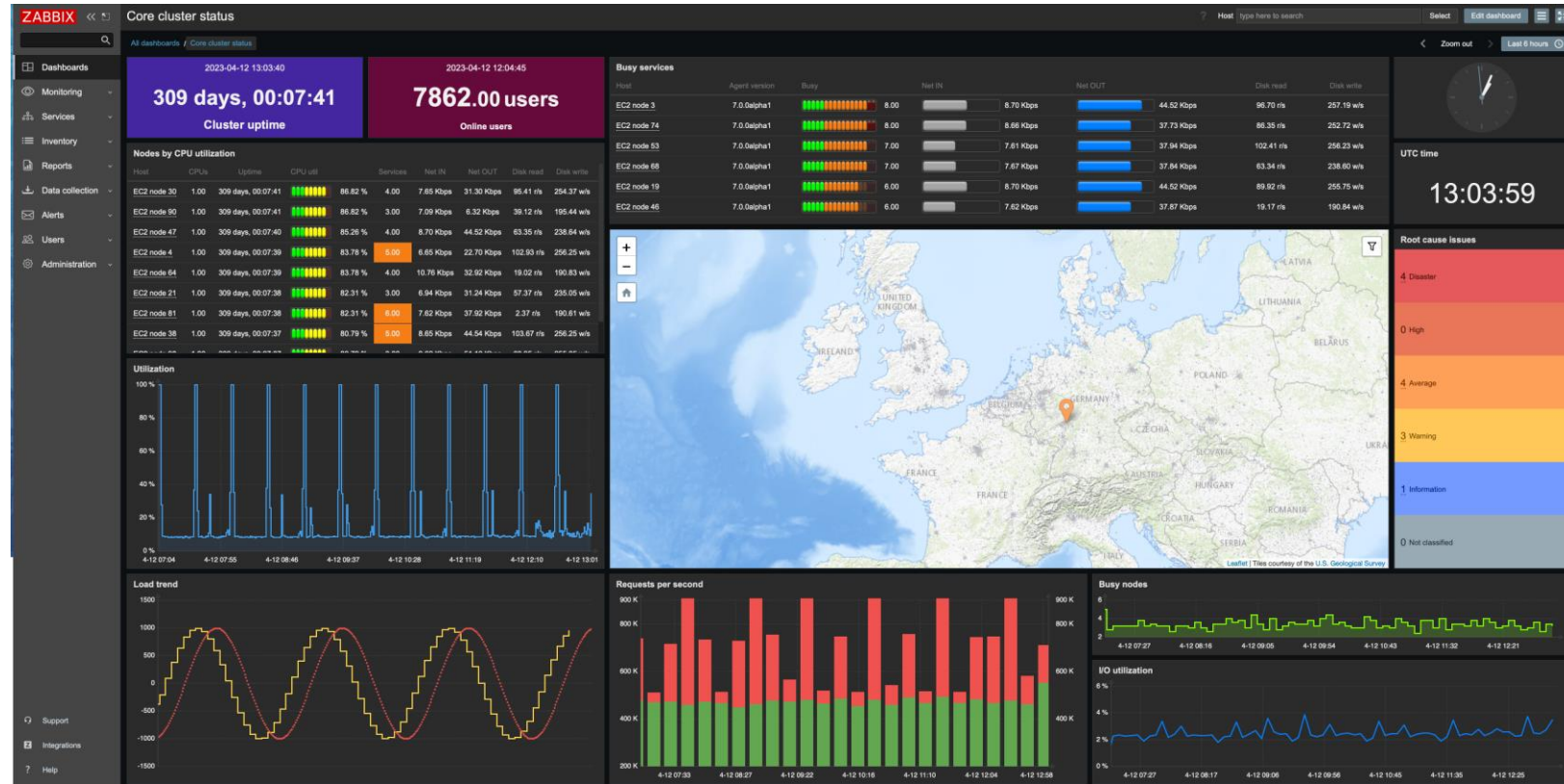
SLA

Topology

Widget navigation

Stable framework for widget devs

Full transition to vector graphs



# CENTRALISED MANAGEMENT OF TIMEOUTS

Zabbix 7.0

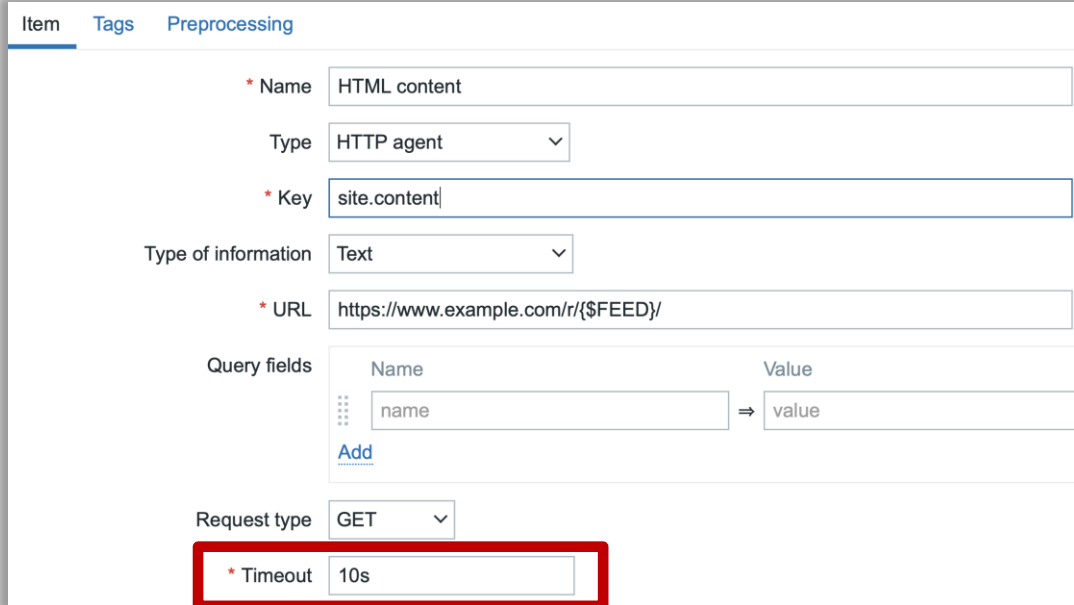
**Now,** zabbix\_server.conf:

Global **Timeout=3**

**Zabbix 7.0 LTS:**

Global, Proxy and item level timeouts

Managed from Zabbix UI



The screenshot shows the 'Preprocessing' tab in the Zabbix UI. The configuration includes:

- Name:** HTML content
- Type:** HTTP agent
- Key:** site.content|
- Type of information:** Text
- URL:** https://www.example.com/r/{FEED}/
- Query fields:** A table with two columns, 'Name' and 'Value'. It contains one row with 'name' and 'value' respectively, followed by an 'Add' link.
- Request type:** GET
- Timeout:** 10s (highlighted with a red box)



# REAL-TIME DATA **INGESTION**

Connectors for real-time ingestion of metrics



**HTTPS**  
**gRPC**  
**SNMP traps**



Zabbix  
Server

HOST A  
HOST B  
HOST C

Zabbix 7.0

# CUSTOM INVENTORY FIELDS

**Now:**

Fixed fields

**Zabbix 7.0 LTS:**

Extend using templates

**New host**

Host IPMI Tags Macros **Inventory** ● Encryption Value mapping

Disabled Manual Automatic

Type

Type (Full details)

Name

Alias

OS

OS (Full details)

OS (Short)

Serial number A

Serial number B

Tag

Asset tag

# BACKLOG AND USABILITY IMPROVEMENTS

Zabbix 7.0

## Other improvements

Get rid of awkward usability issues

Remote commands for **active** agents

Transition to threads for **better scalability**

The screenshot shows the 'Host permissions' configuration page in Zabbix 7.0. The interface is dark-themed with a top navigation bar containing 'User group', 'Template permissions', 'Host permissions' (selected), and 'Problem tag filter'. Below the navigation bar, the 'Permissions' section is active. It displays a table with two columns: 'Host group' and 'Permissions'. The 'Host group' column lists 'All groups' and 'Zabbix infrastructure'. The 'Permissions' column shows 'None' for 'All groups' and a set of buttons ('Read-write', 'Read', 'Deny', 'None') for 'Zabbix infrastructure'. Below the table, there is a search input field with the placeholder 'type here to search', a 'Select' button, and another set of permission buttons ('Read-write', 'Read', 'Deny', 'None'). There is also an 'Include subgroups' checkbox and an 'Add' link. At the bottom, there are 'Update', 'Delete', and 'Cancel' buttons.

Host group	Permissions
All groups	None
Zabbix infrastructure	<button>Read-write</button> <button>Read</button> <button>Deny</button> <button>None</button>

type here to search Select Read-write Read Deny None

☐ Include subgroups [Add](#)

Update Delete Cancel

# ZABBIX 7.0 LTS ROADMAP IN A NUTSHELL

New ways of Cloud & K8S visualization

Event correlation engine

Advanced visualization

End-user synthetic monitoring

Custom inventory

Usability improvements

Receiving metrics from 3<sup>rd</sup> party systems

Framework for new widgets

New templates and integrations

## LATER

**Observability:** APM + tracing, Open Telemetry integration

Cloud native: HA, performance and scalability

Log management

Security and compliance monitoring

# Roadmap

This page contains an incomplete list of planned functionality that can be updated anytime without prior notice

Zabbix 7.0 LTS

Zabbix 7.2

Zabbix 7.4

Zabbix 8.0 LTS

## Zabbix 7.0 LTS

Planned release date: Q4 2023

### Enhanced interoperability

- Time-series data ingestion from 3rd party systems **New**  
Flexible data gateway for ingesting time-series data in various formats using various protocols  
★ Top voted!
- Custom inventory fields **New**  
Ability to customise inventory fields  
ZBXNEXT-336 ★ Top voted!

### New widgets for dashboards and reporting

- Gauge chart widget **In dev**  
ZBXNEXT-743 ★ Top voted!
- Pie and donut chart widget
- TopN item widget  
Displaying data table view for items from a single of multiple hosts, also for LLD items  
ZBXNEXT-4036
- Top100 triggers widget  
ZBXNEXT-6973
- Host tree navigation widget **New**
- Item tree navigation widget **New**

### Advanced visualization and reporting

- Communication framework for widgets **In dev**  
Widgets will be able to talk to each other enabling creation of new types of widgets and dynamic next-generation dashboards

## Status

New

In design

In dev

Ready

The image features a dark blue background with a subtle, intricate pattern of white lines forming a network or globe-like structure. A prominent red horizontal bar is positioned on the left side. The word "ZABBIX" is written in white, uppercase, sans-serif font within this bar. Below the bar, the words "THANK YOU!" are written in a larger, white, uppercase, sans-serif font.

**ZABBIX**

**THANK  
YOU!**