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

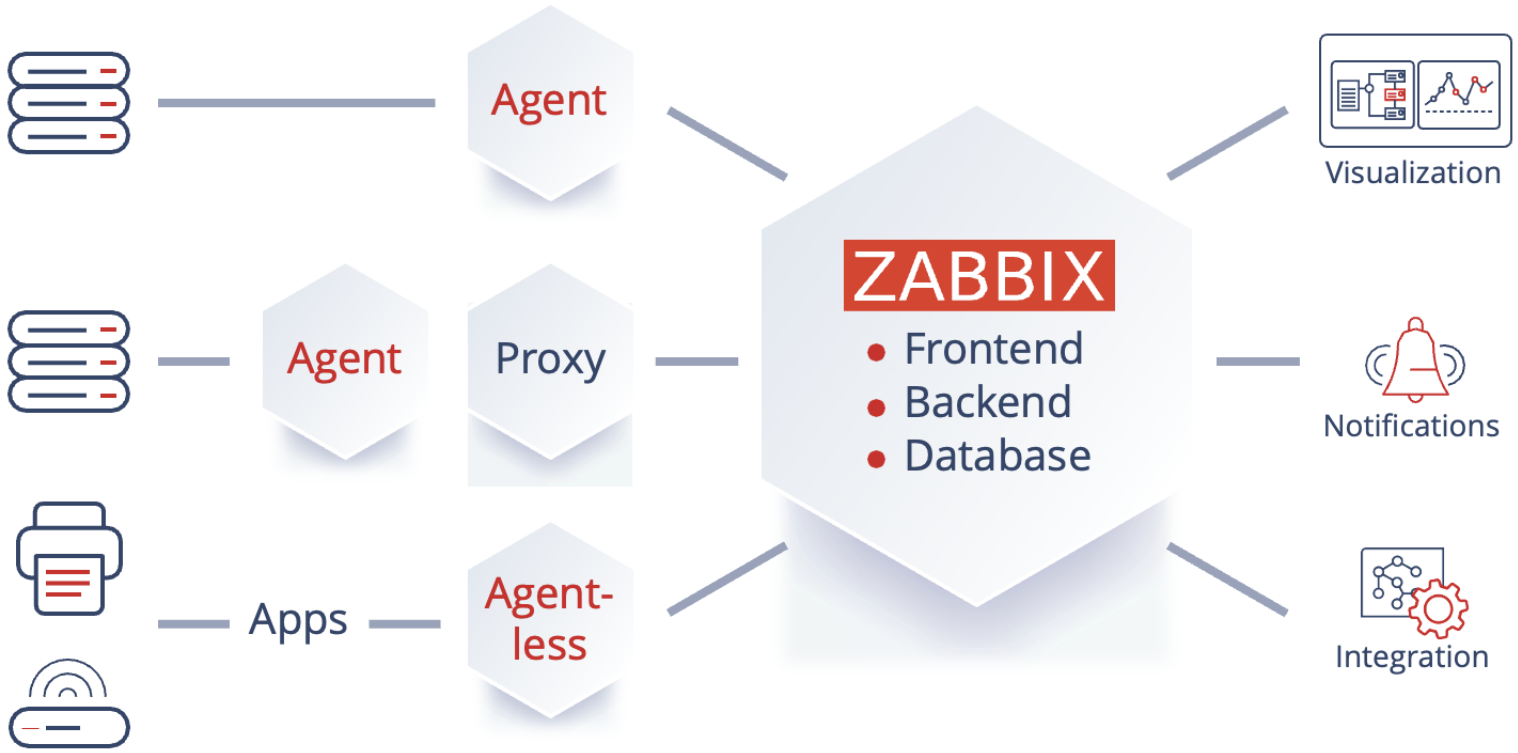
- Growing number of devices, networks, increasing complexity

Pro-active problem resolution is critical

Cost effectiveness

Zabbix is a Universal Open Source enterprise-level monitoring solution

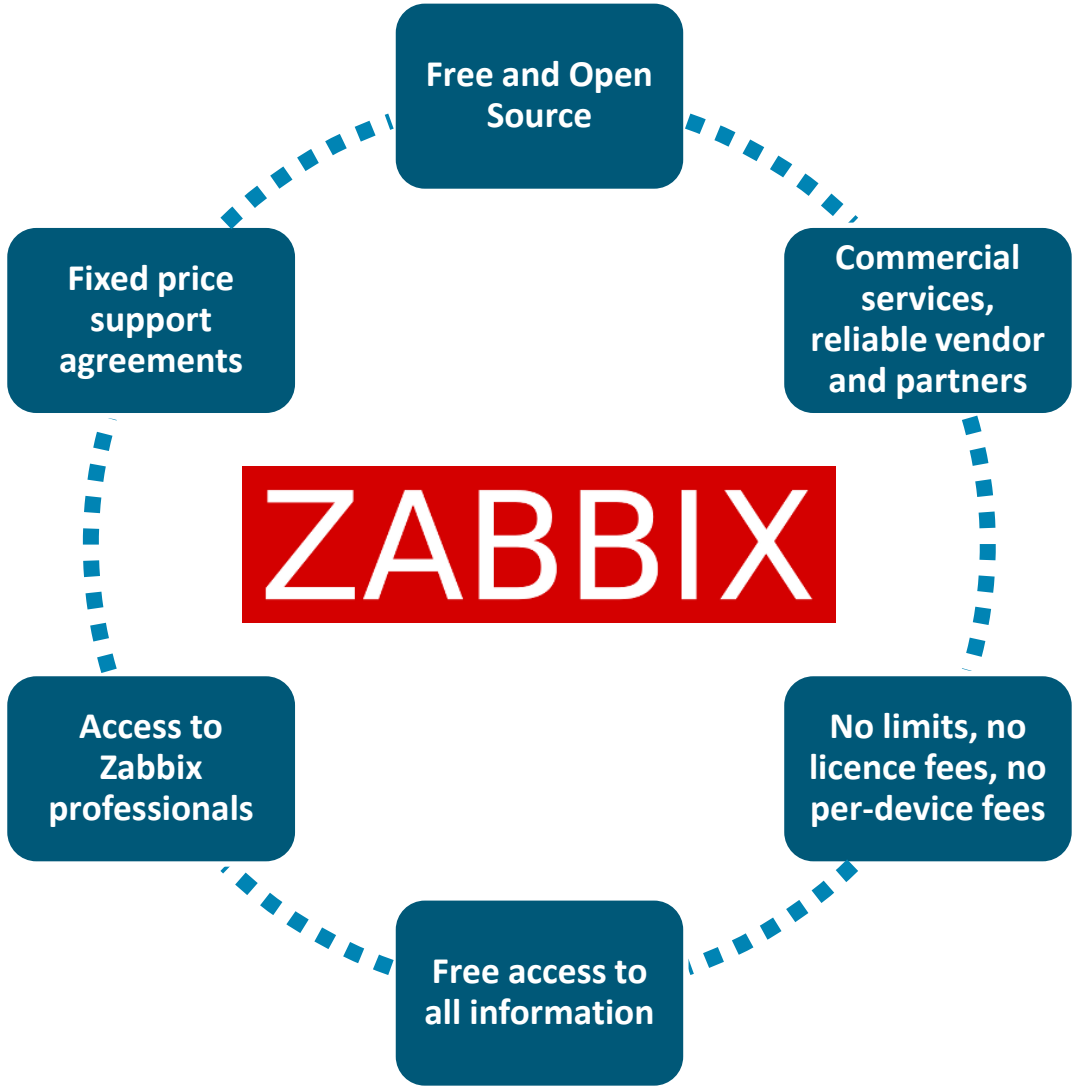
All-in-one monitoring platform



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

COST OF ZABBIX

Exceptionally low TCO



YOU'RE COVERED: 24X7 PROFESSIONAL SERVICES

TECHNICAL SUPPORT
Get technical advice

Get instant access to a team of Zabbix experts for guaranteed professional support 24x7

CONSULTING
Talk to experts

Gain benefit from expert advice and best practices for all Zabbix-related matters

TEMPLATE BUILDING
Customize monitoring

Effortlessly start monitoring of your specific device, system, application or service

REMOTE TROUBLESHOOTING
Quickly get a solution

Eliminate any issues you have run into within hours, not days or weeks. Fix your system correctly, accurately

UPGRADE
Use the latest version

Eliminate the risk and minimize downtime by upgrading with the Zabbix team

INTEGRATION
Expand your workflow

Interconnect Zabbix with your ticketing system, servicedesk or any other tool you might have

DEVELOPMENT
Enhance Zabbix

Hire Zabbix to develop additional features for your business needs

PROFESSIONAL TRAINING
Obtain knowledge

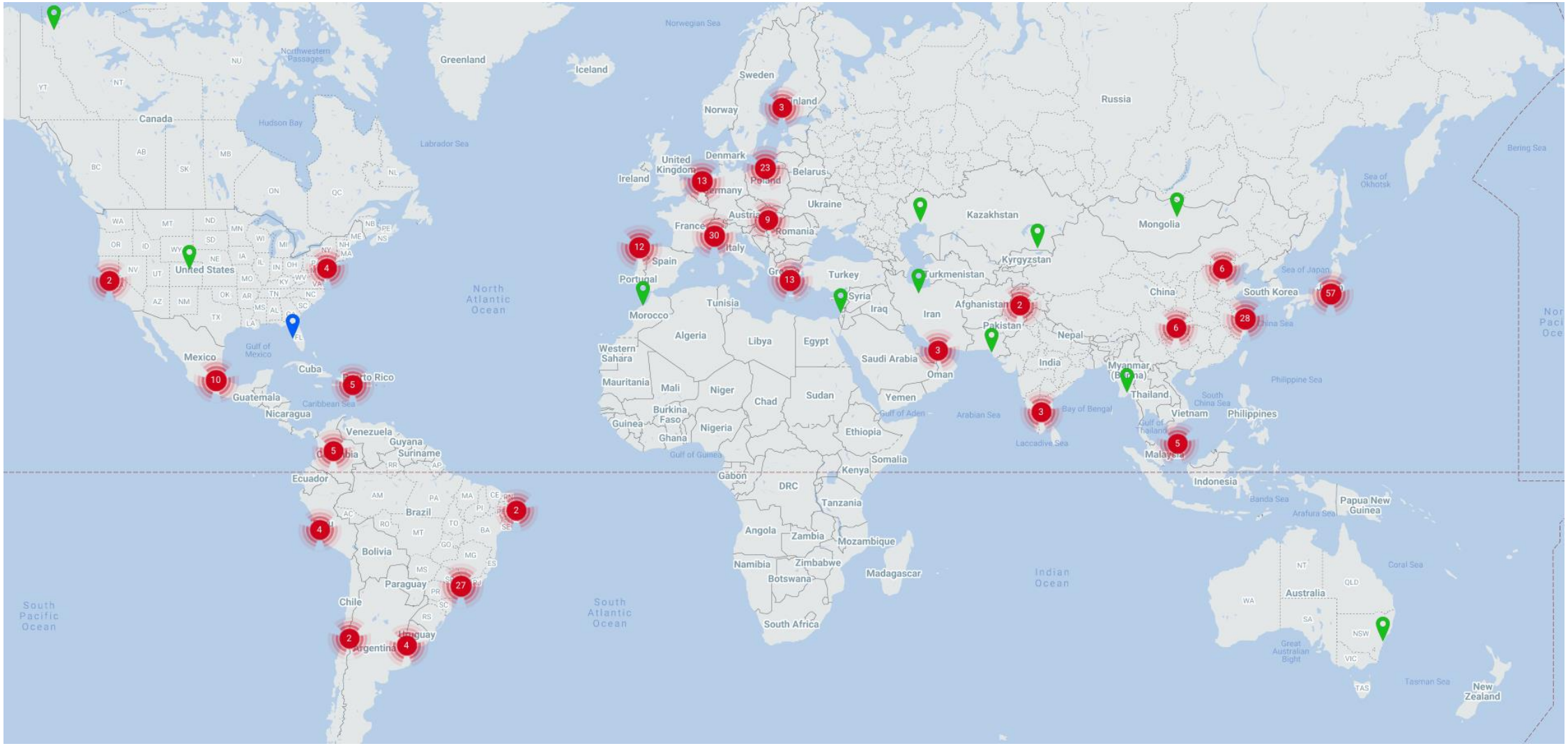
Focused comprehensive training for all your Zabbix needs in 5 days, in many local languages

TURN-KEY SOLUTION
Deploy professionally

Install and configure Zabbix according to your specific requirements

10TH
ZABBIX
SUMMIT
2022
THANK

250 PARTNERS AROUND THE WORLD



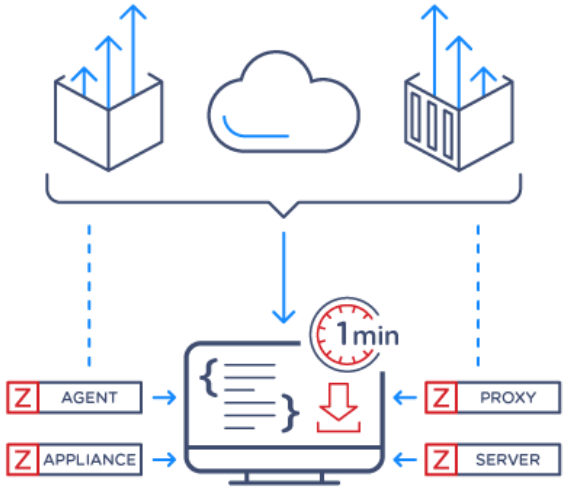
ZABBIX SCALABILITY

Single Zabbix server

550K+ of devices

30K+ proxies

10M+ items



Deploy anywhere

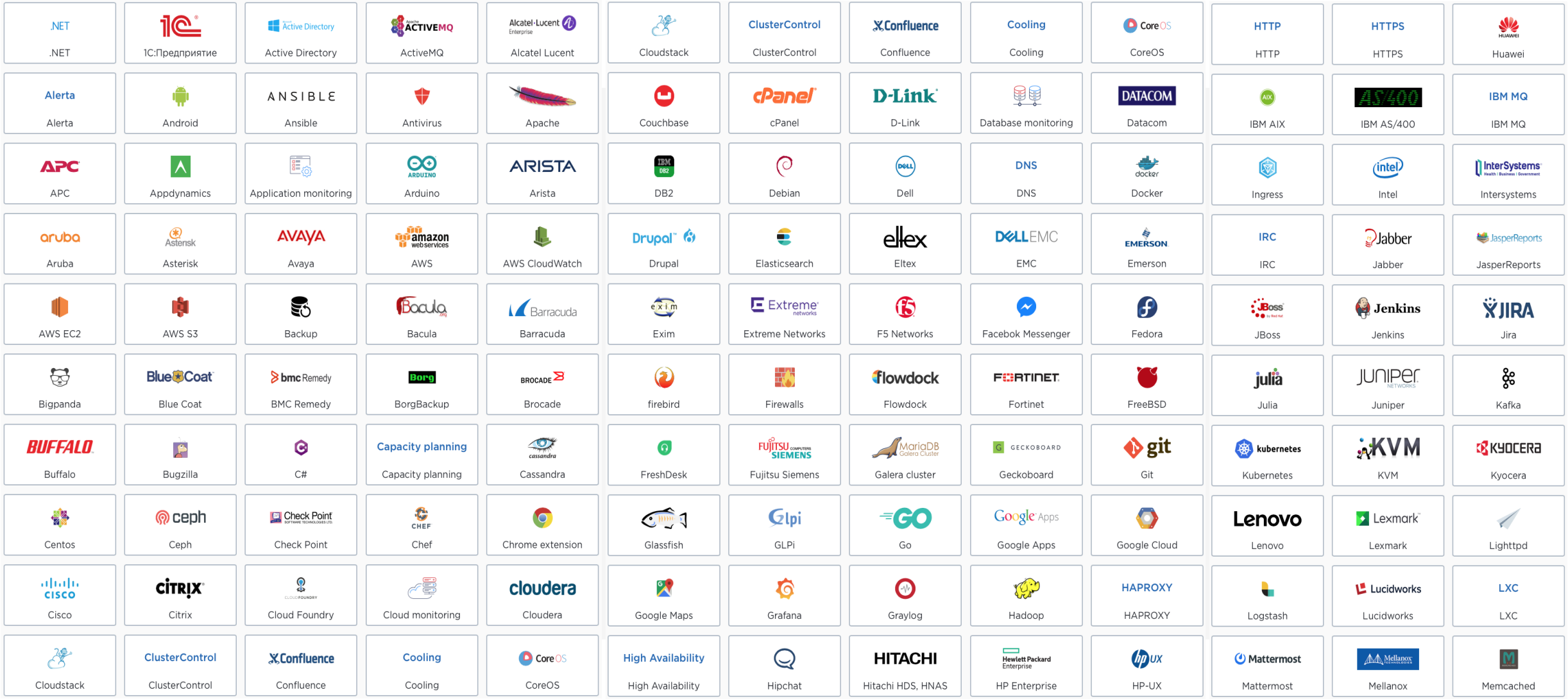
DEPLOY ON-PREMISE

DEPLOY IN THE CLOUD

Monitor anything

Legacy and modern systems, ready for the future

OUT OF THE BOX MONITORING



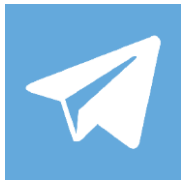
zabbix.com/integrations

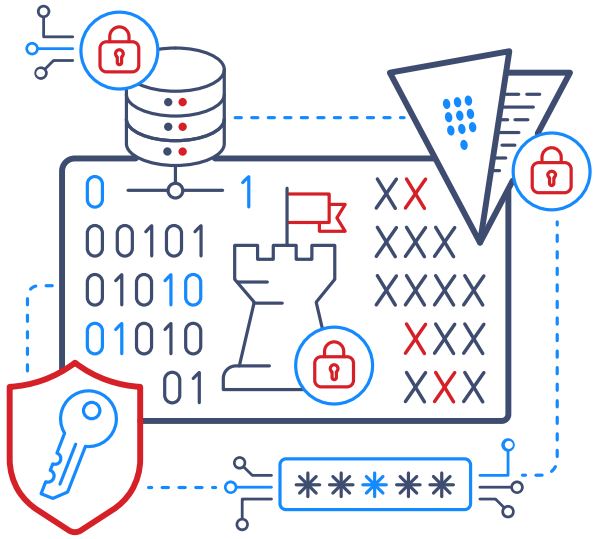
ZABBIX CONFERENCE BENELUX

RECENT ADDITIONS

CMDB AND TICKETING

ALERTING

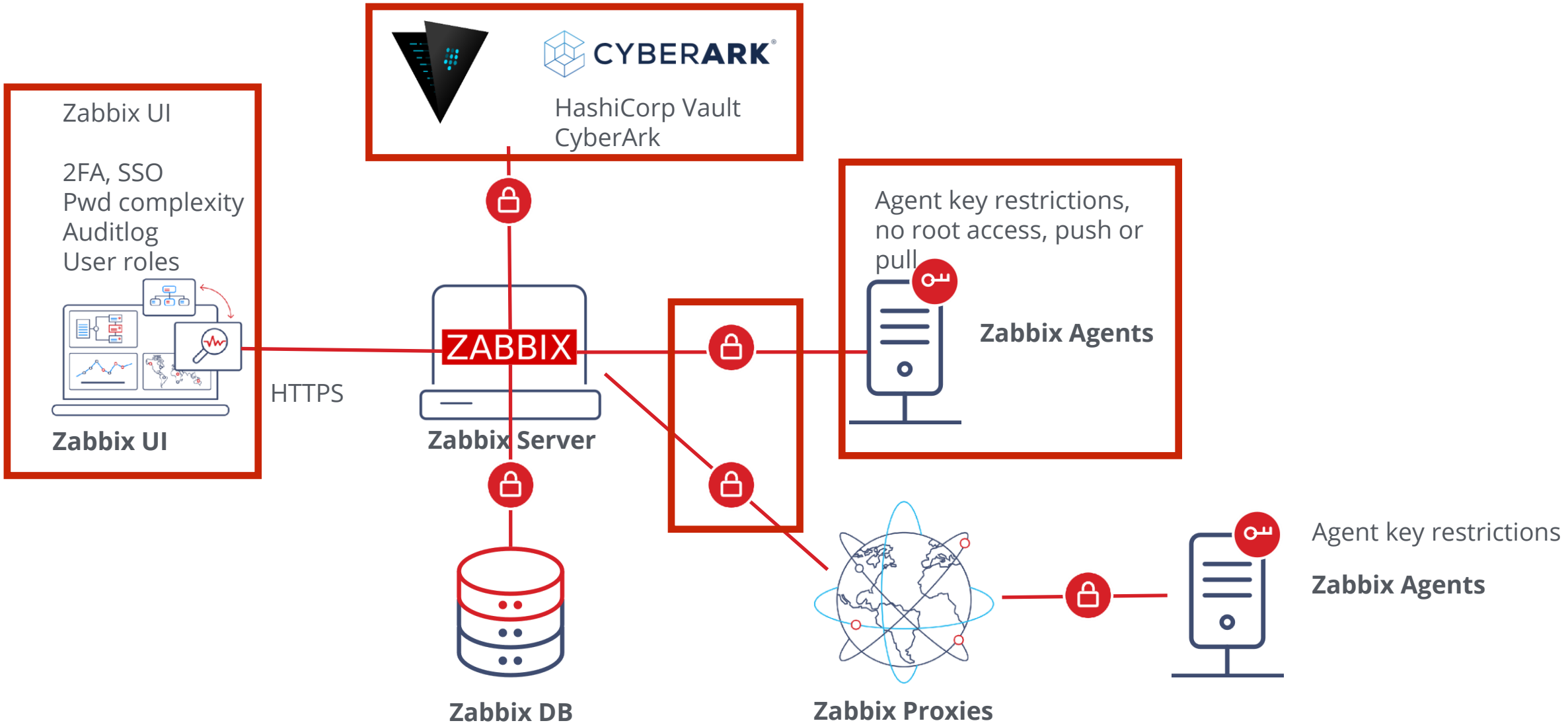




Security on all levels

Highest security standards, verified by independent researchers

SECURE BY DESIGN



Bug bounty

ISO/IEC 27001

Home / Product /

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 rsion/s	Published
ZBV-2022-12-1	CVE-2022					l pkg. .oct.22 - ec.22)	2022 Nov 30
ZBA-2022-10-1	-					v6.0.8 laris) versions 31/Oct/2022	2022 Oct 18
ZBV-2022-10-1	CVE-2022					.0-4.0.44 .0-5.0.29 .0-6.0.9 .0-6.2.4	2022 Oct 18
ZBV-2022-09-1	CVE-2022			Generation	generation	.0-6.0.11 6.2.0-6.2.5	2022 Sep 21
ZBA-2022-07-1	-	-		Zabbix products are not affected by CVE-2022-2068 vulnerability in OpenSSL	-	-	2022 Jul 26
ZBV-2022-07-1	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

CVE/Advisory number: CVE-2022-43516

Synopsis: Zabbix Agent installer adds “allow all TCP any any” firewall rule

Description: 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)

Known Attack Vectors: An attacker can connect to all TCP services running on the machine with Zabbix Agent

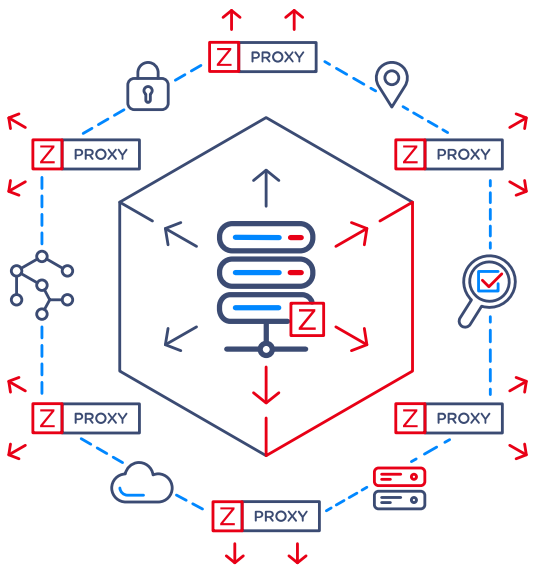
Resolution: To remediate this vulnerability, apply the updates listed in the 'Fixed Version' section to appropriate products or use the workaround

Workaraunds: If an immediate update is not possible, change the applied local firewall rule to allow the agent port only.

Acknowledgements: Joshua PowellNishiyama

Component/s	Affected version/s	Fix version/s	CVSS score	Zabbix severity	Tickets
Agent, Agent2	MSI pkg. (29.oct.22 - 2.dec.22)	MSI pkg. => 3.dec.22	6.5	Medium	ZBX-22002

zabbix.com/security_advisories



Solution for MSPs

Better QoS, additional revenue stream

EARLY PROBLEM DETECTION, USEFUL INSIGHTS

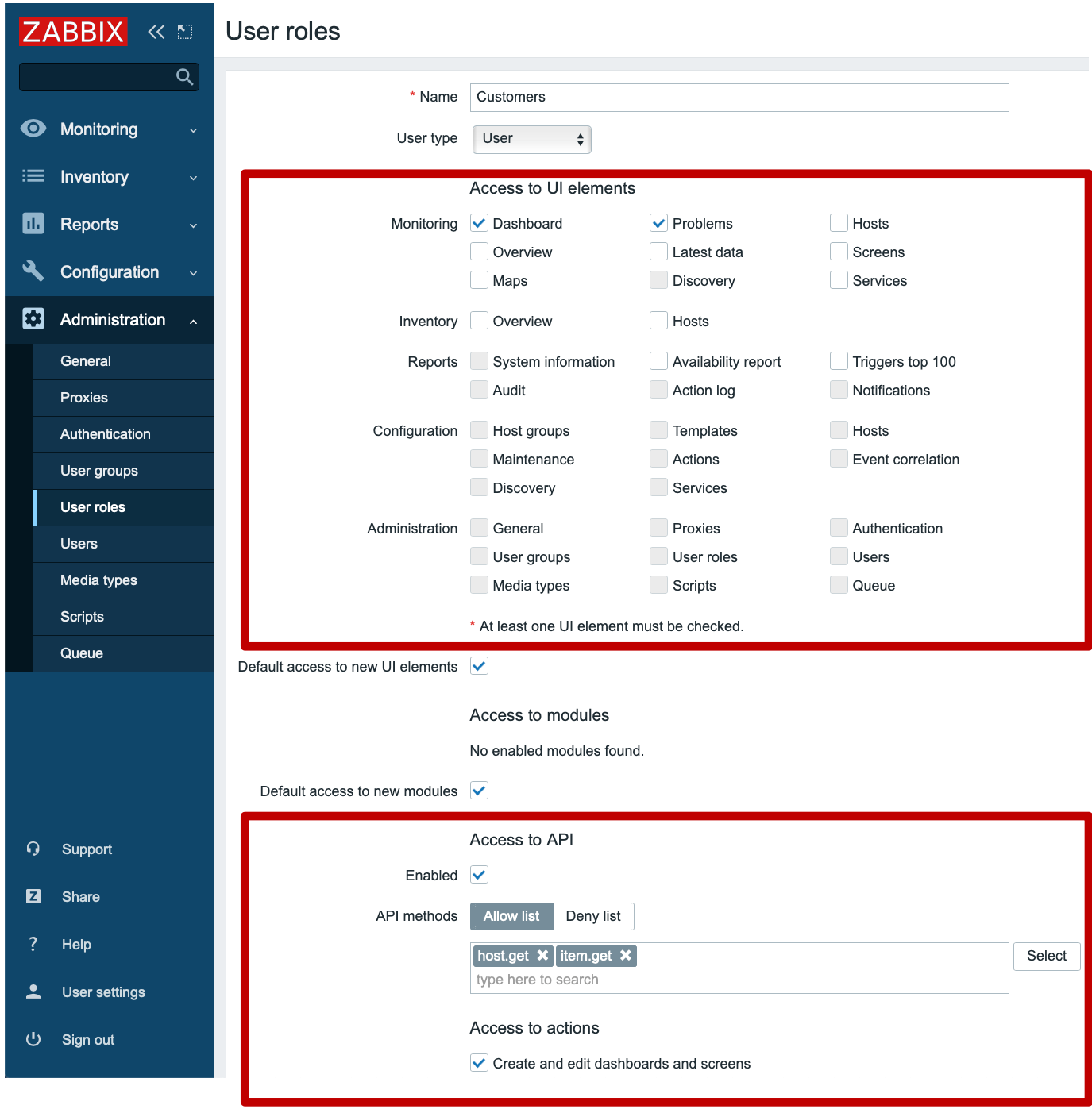
Baseline: New user registrations is down 12% last week

Anomaly: Sudden anomaly detected in S3 usage

Trend prediction: Running out of EC2 instances next week

USER ROLES

Granular control of user permissions



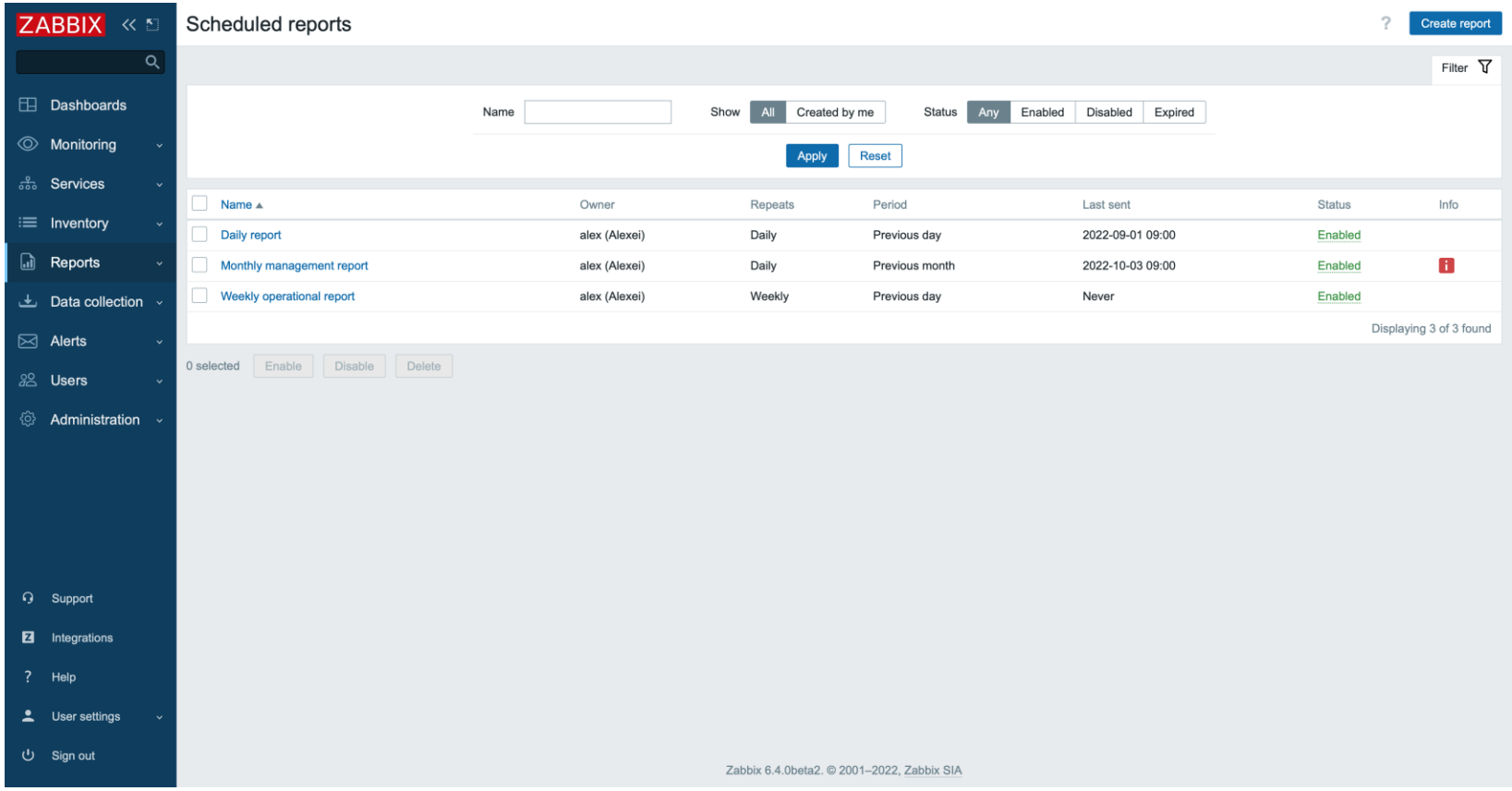
SCHEDULED PDF REPORTS

Can be applied to any dashboard

Accessible to all users

Use user roles to restrict access

Daily, weekly, monthly or yearly



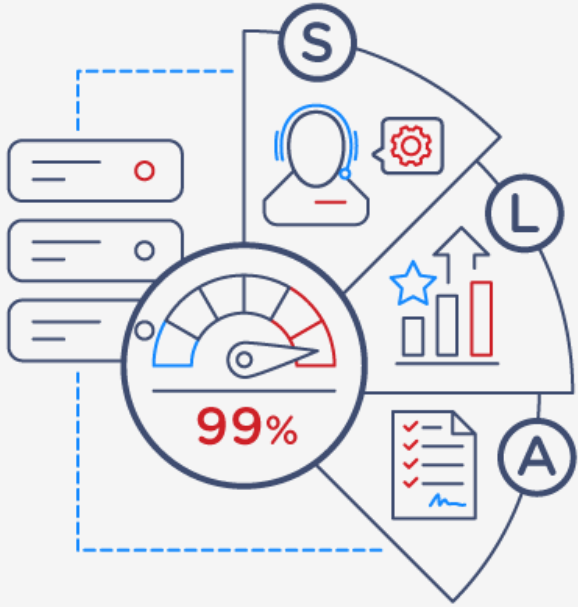
BUSINESS SERVICE MONITORING (BSM)

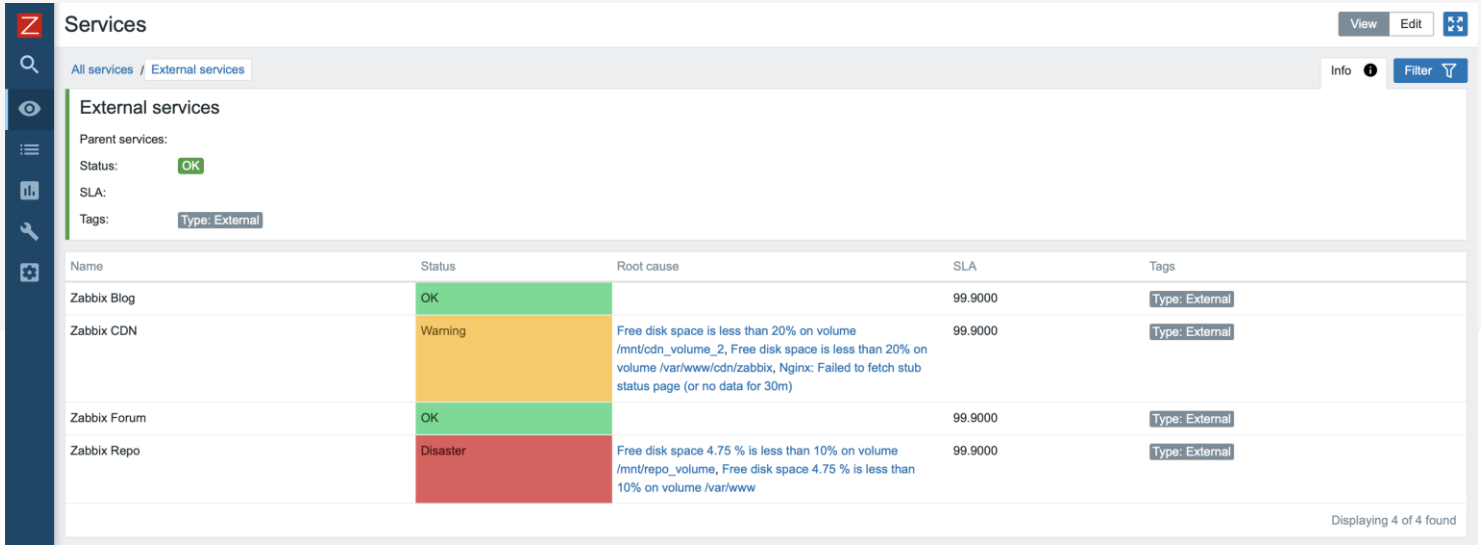
Complex SLO definitions for 100K+ services

SLA real-time and scheduled reporting

Multi-tenancy using flexible user roles

Alerting, root cause and impact analysis





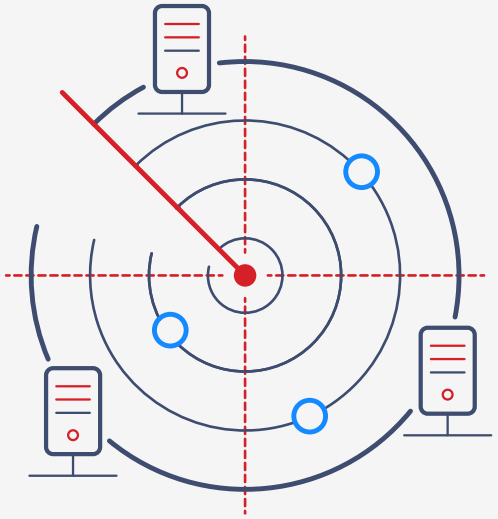
MONITORING AS A REVENUE STREAM FOR MSP

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

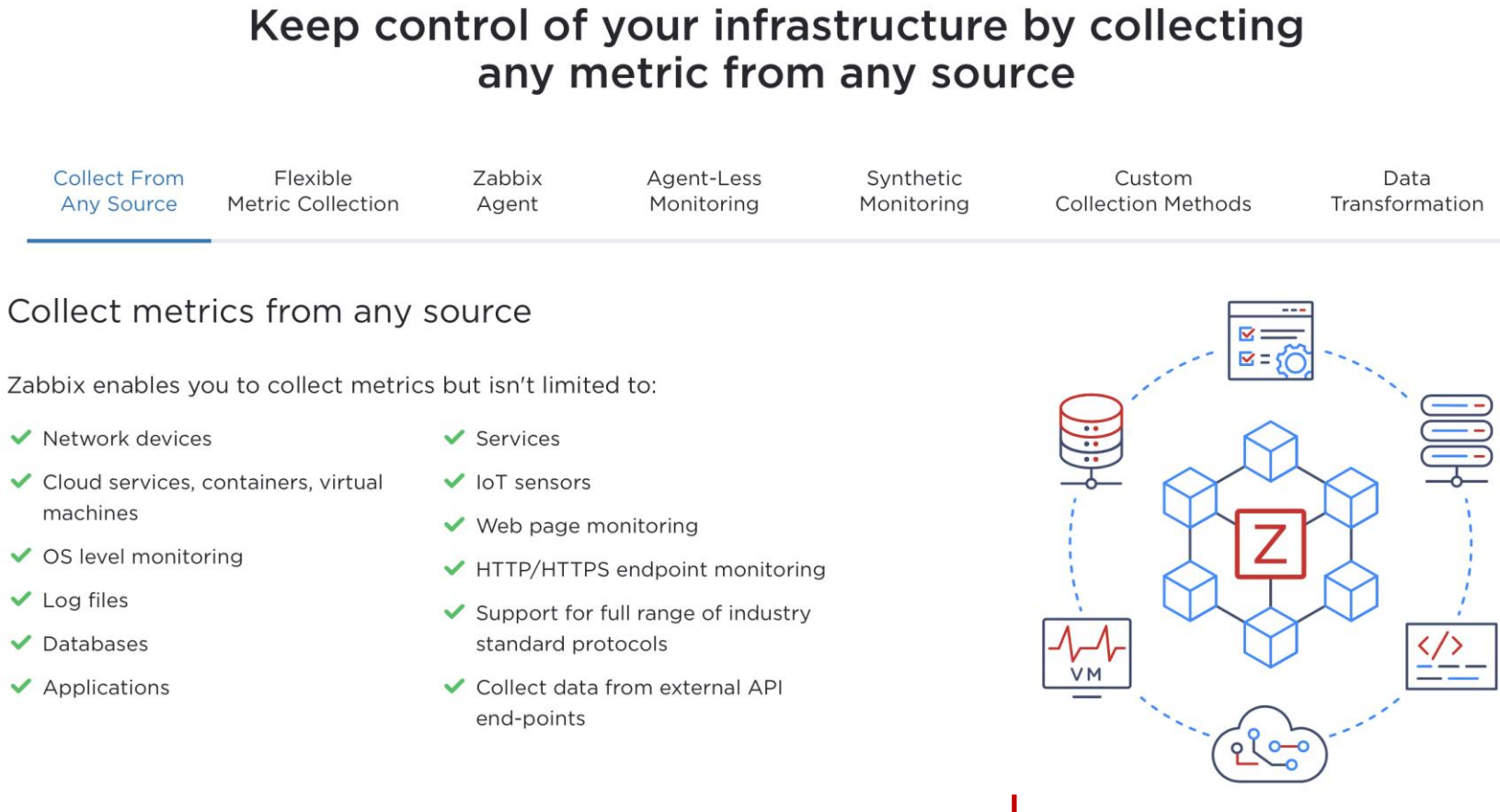
Real-time data collection and processing

ZABBIX FEATURES

All benefits of Zabbix in one place

Use as a reference

Answers many FAQs



zabbix.com/features

6.0 LTS 6.2 **6.4** 7.0 LTS

Zabbix 6.4

A huge step ahead

ZERO-DOWNTIME UPGRADE OF PROXIES

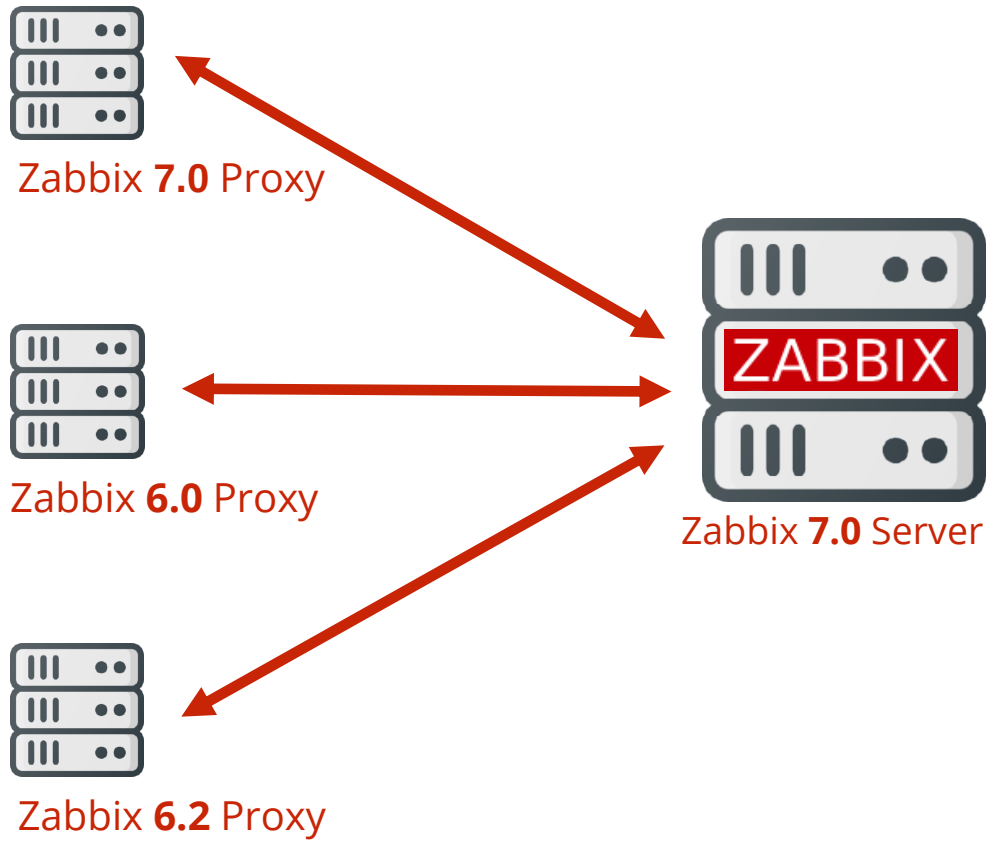
Before Zabbix 6.4:

All Zabbix components (except agents) must be upgraded simultaneously

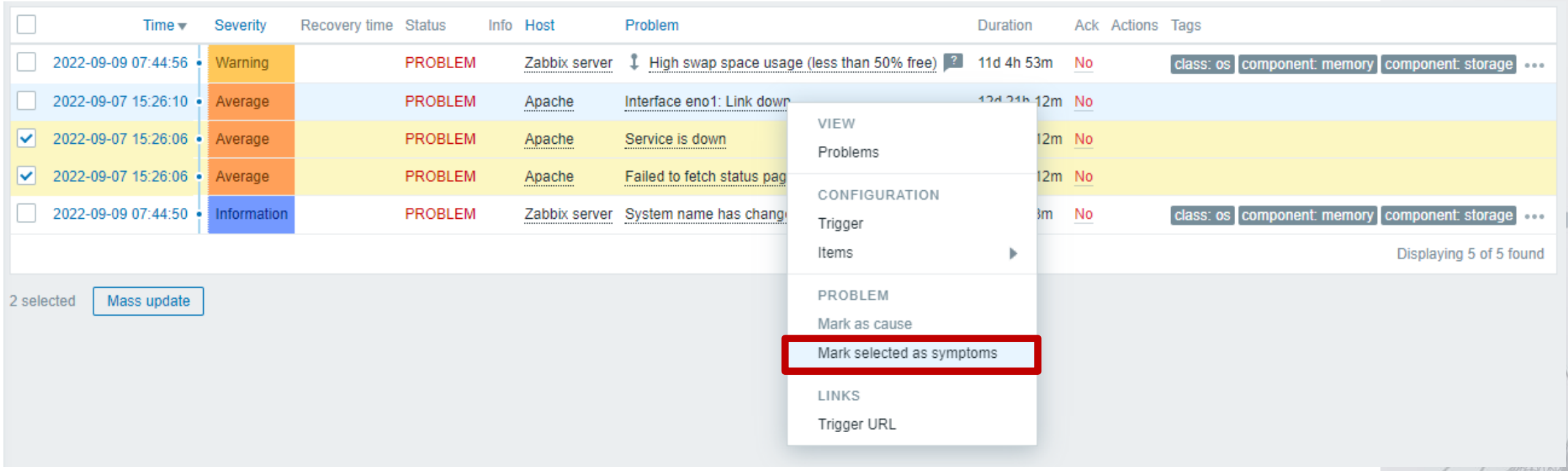
Zabbix 6.4:

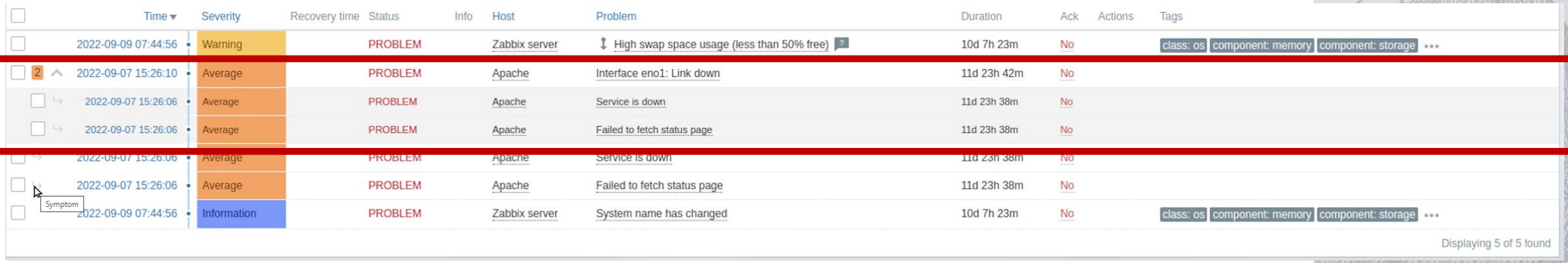
Older proxies will continue to process data

Creates a longer time window for upgrade



THE CONCEPT OF CAUSE AND SYMPTOM EVENTS

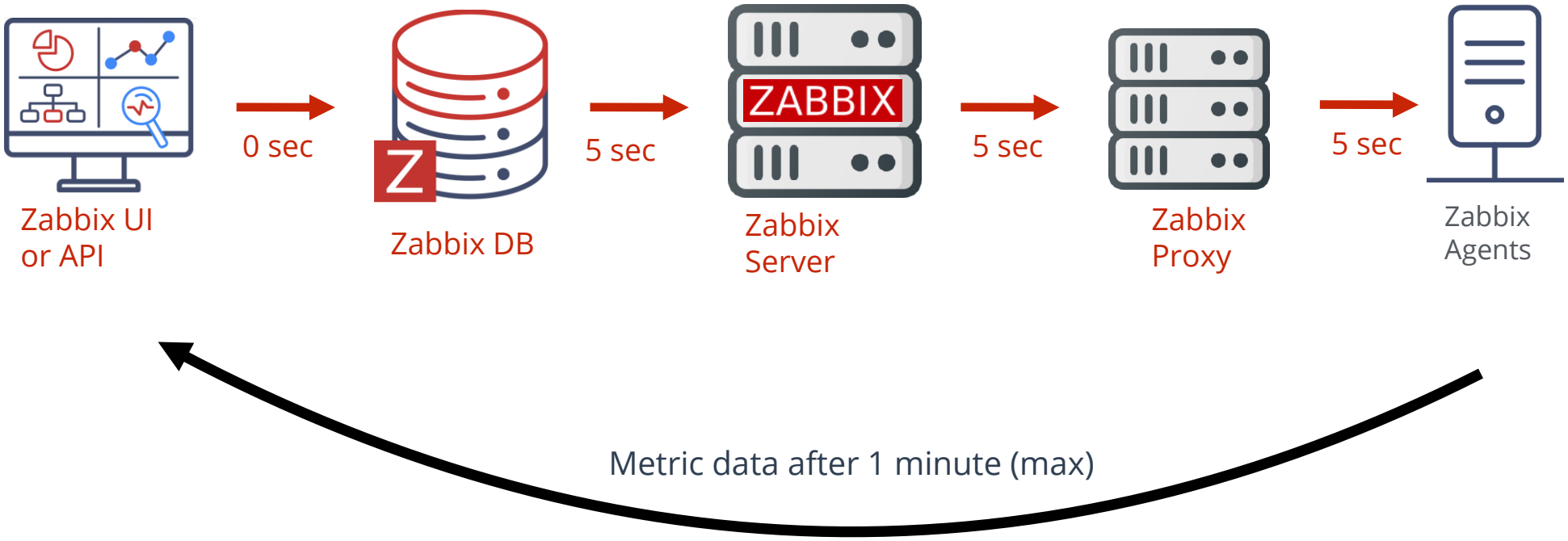




INSTANT CONFIGURATION UPDATE

Configuration sync will support incremental updates

New items are now checked within a minute after creation



JIT USER PROVISIONING

Automatic user provisioning

Auto-creation of users for LDAP and SAML

Management of users and their rights

Automatic mapping of user rights to user groups

REAL-TIME DATA STREAMING

Connectors for real-time streaming of metrics and events

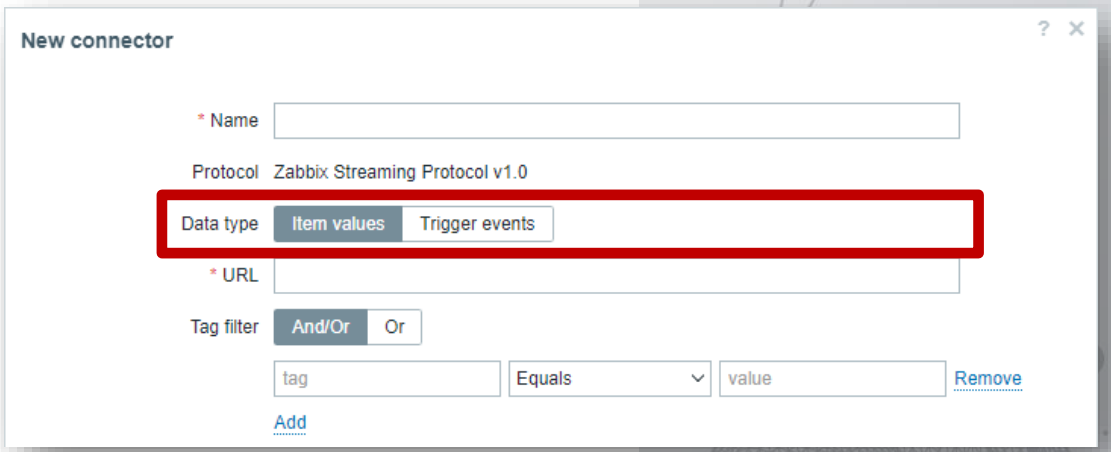
Zabbix
Server

kafka

RabbitMQ

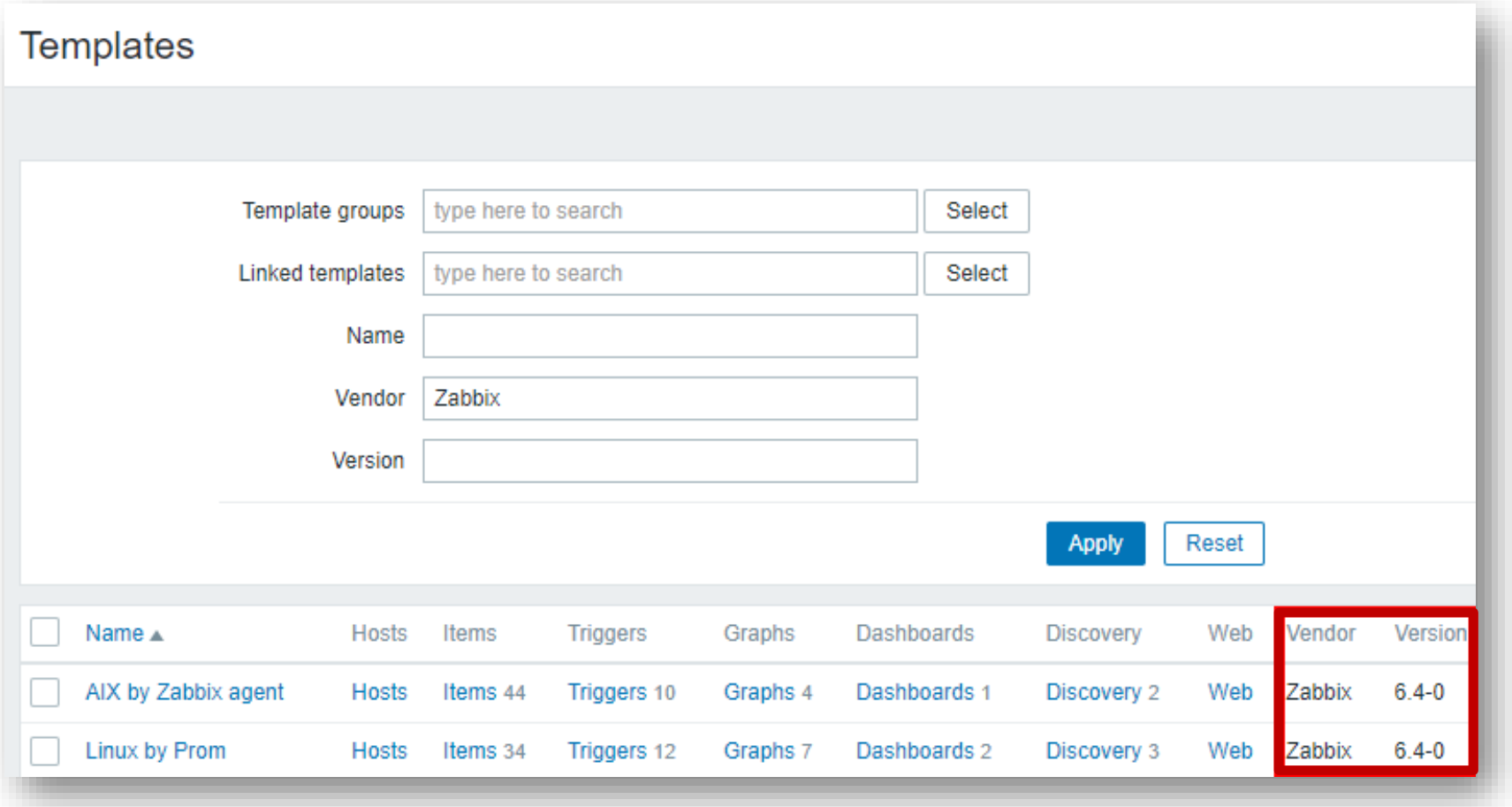
amazon
SQS

redis



TEMPLATE VERSIONING

Information about Vendor and Version



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

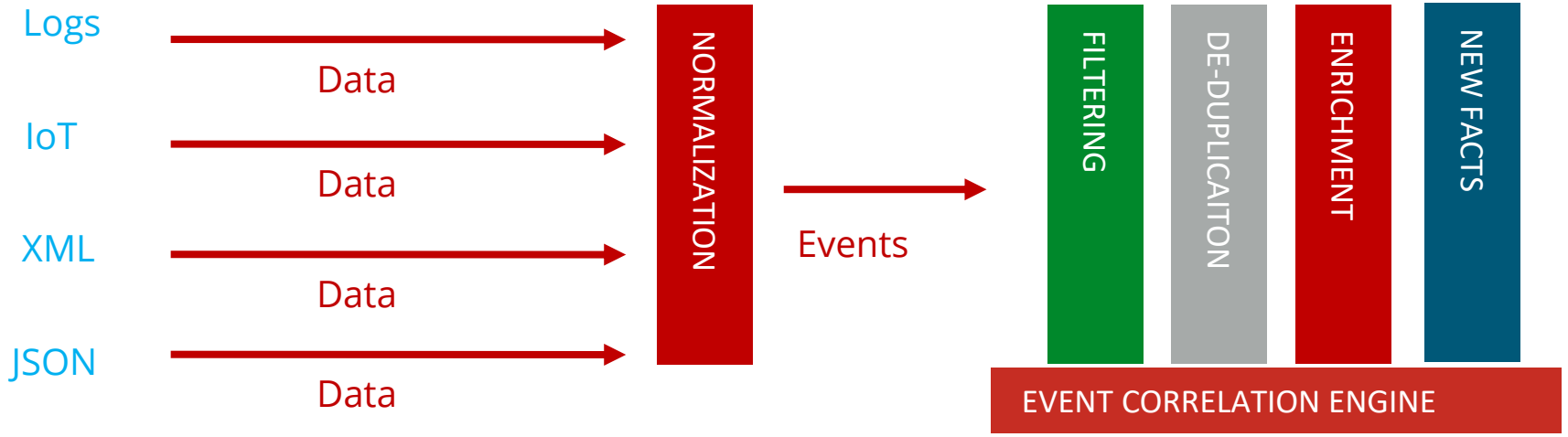
Zabbix 7.x

Tag based event pre-processing and correlation

Event filtering, de-duplication, enrichment

Normalization and noise reduction

Generation of new facts



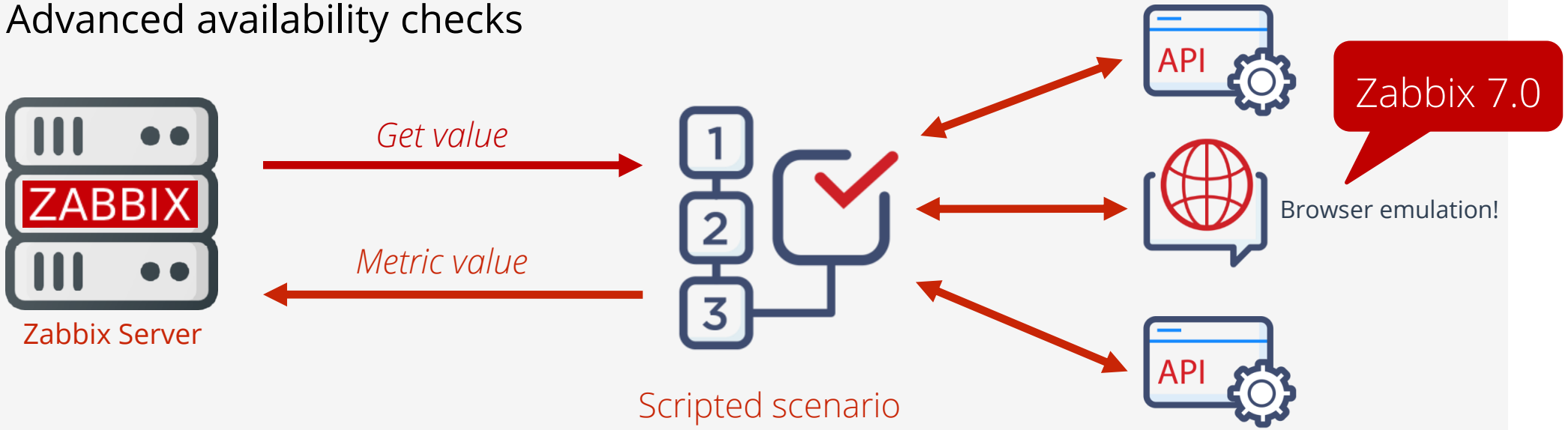
Zabbix events

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:

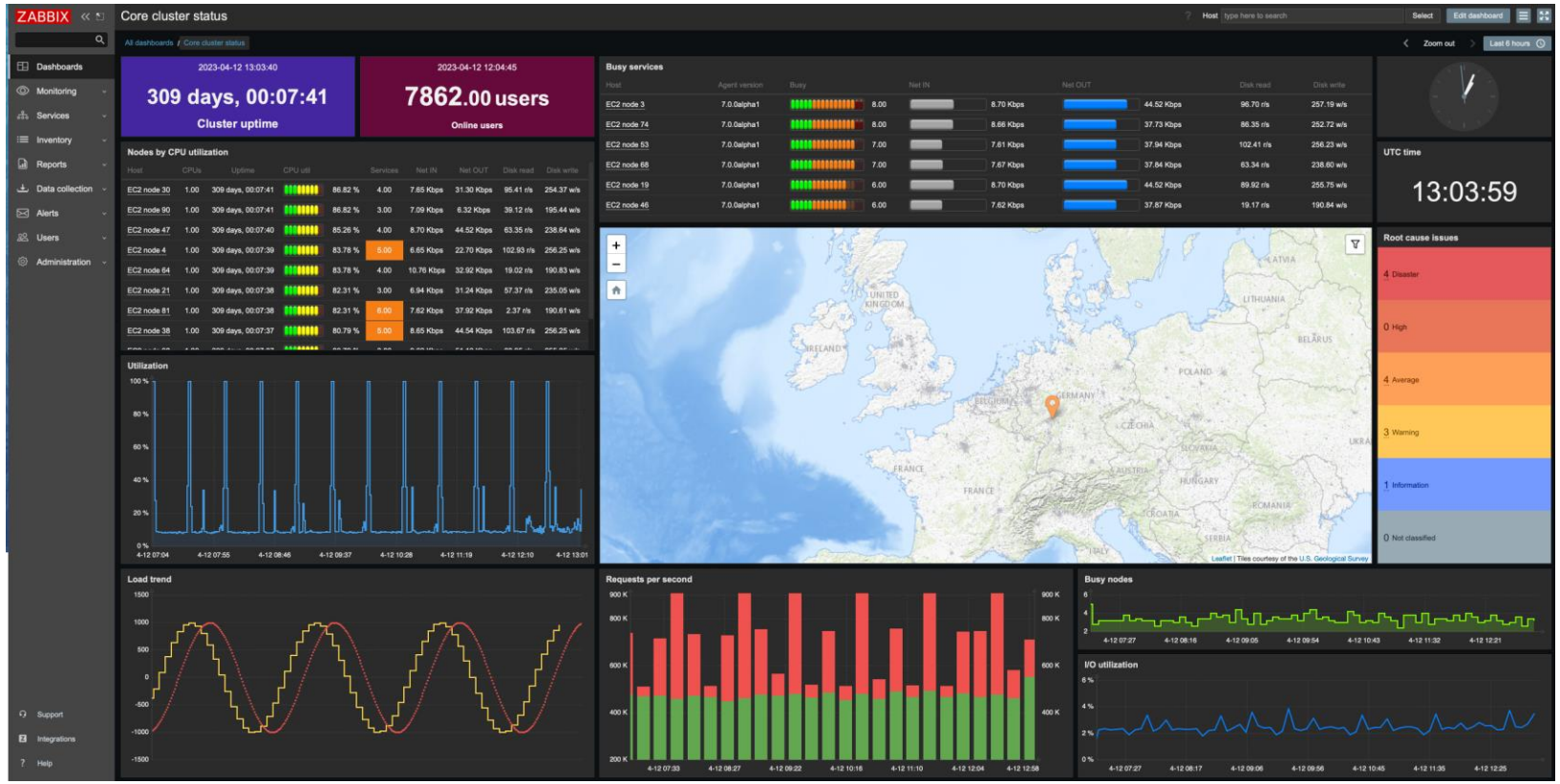
SLA

Topology

Widget navigation

Stable framework for widget devs

Full transition to vector graphs



CENTRALISED MANAGEMENT OF TIMEOUTS

Zabbix 7.0

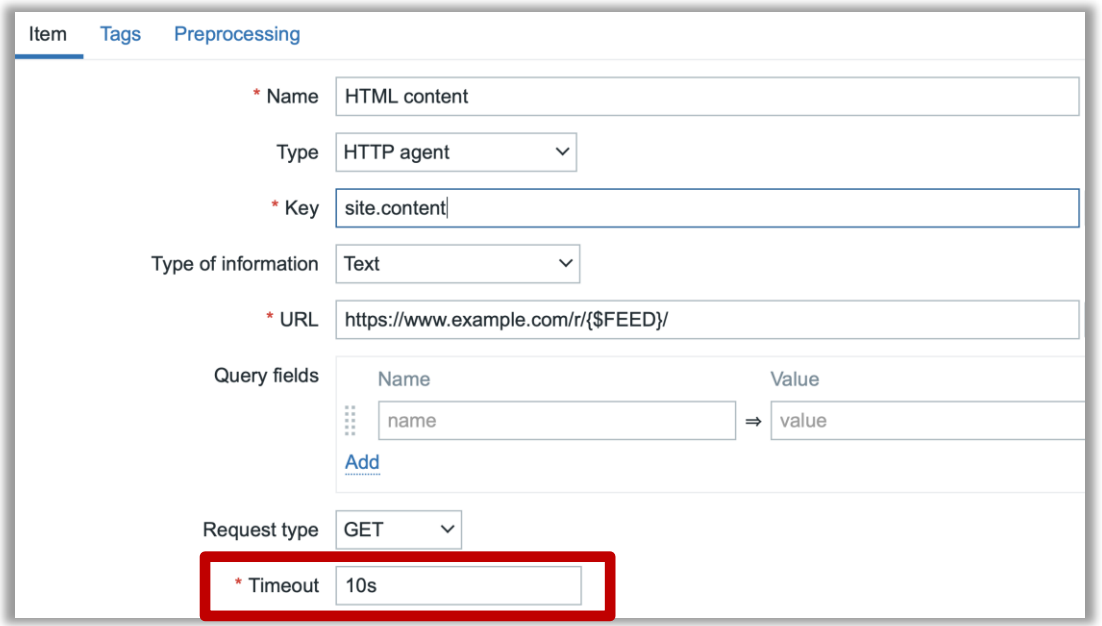
Now, zabbix_server.conf**:**

Global **Timeout=3**

Zabbix 7.0 LTS:

Global, Proxy and item level timeouts

Managed from Zabbix UI

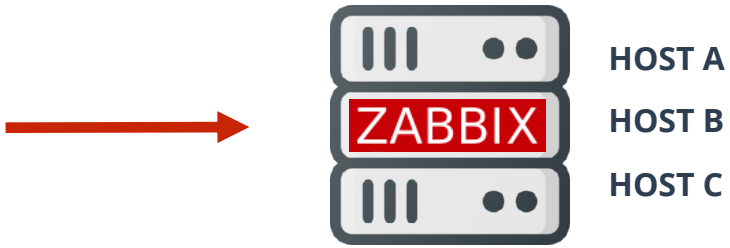


Zabbix 7.0

REAL-TIME DATA INGESTION

Connectors for real-time ingestion of metrics

HTTPS
gRPC
SNMP traps



Zabbix
Server

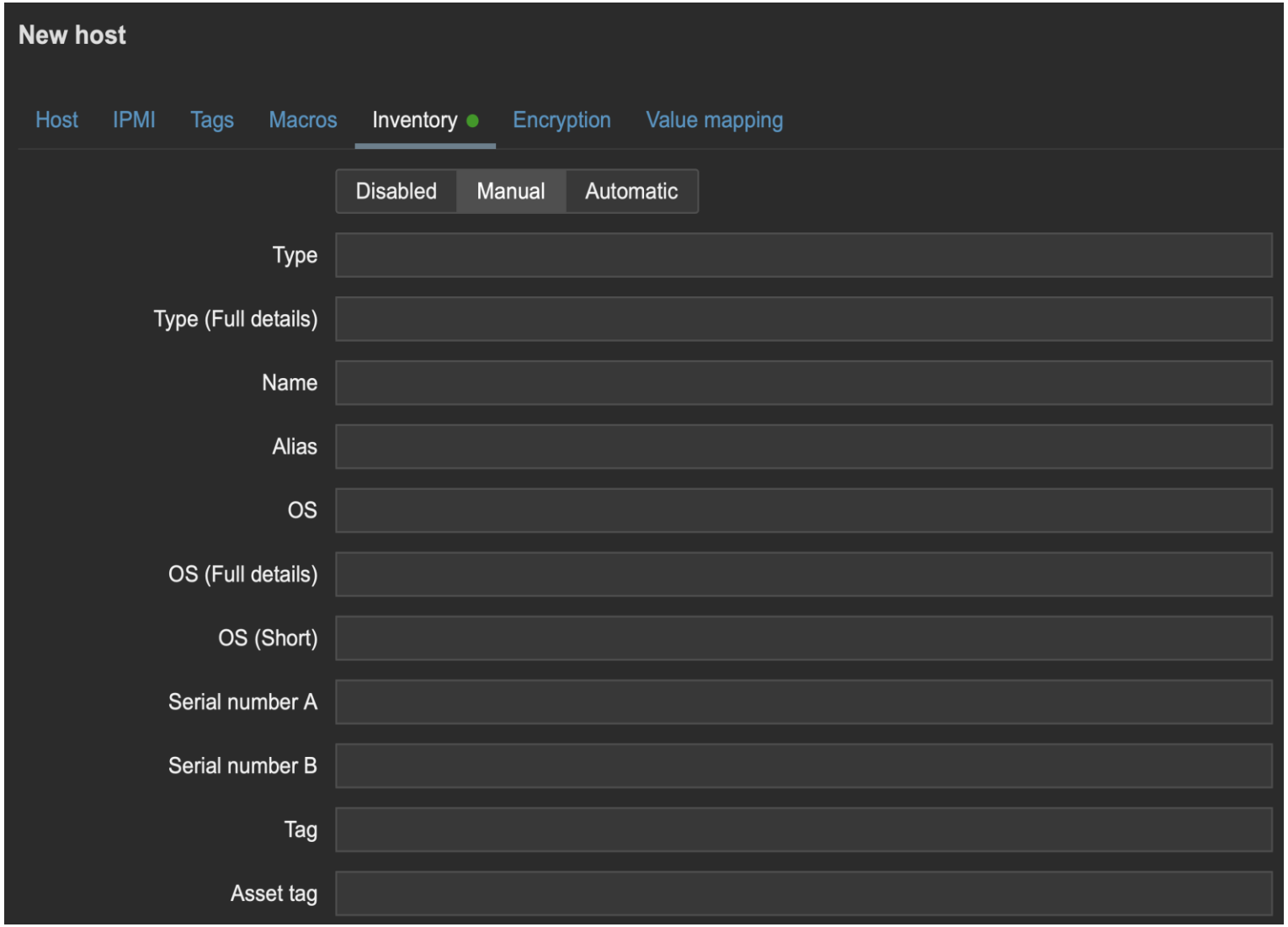
CUSTOM INVENTORY FIELDS

Now:

Fixed fields

Zabbix 7.0 LTS:

Extend using templates



BACKLOG AND USABILITY IMPROVEMENTS

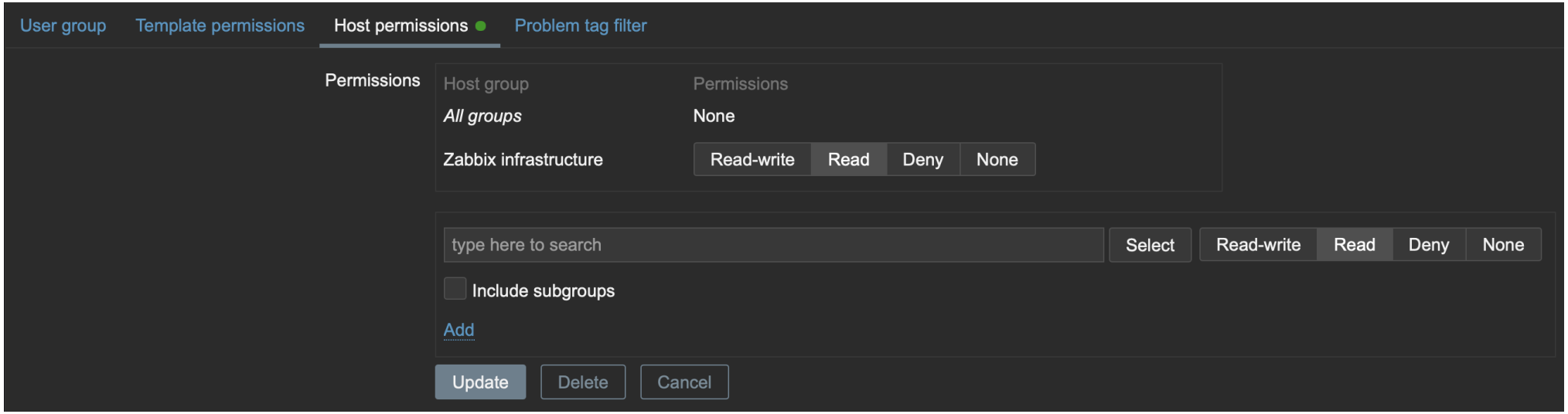
Zabbix 7.0

Other improvements

Get rid of awkward usability issues

Remote commands for active agents

Transition to threads for better scalability



ZABBIX 7.0 LTS ROADMAP IN A NUTSHELL

New ways of Cloud & K8S visualization

End-user synthetic monitoring

Receiving metrics from 3rd party systems

Event correlation engine

Custom inventory

Framework for new widgets

Advanced visualization

Usability improvements

New templates and integrations

LATER

Observability: APM + tracing, Open Telemetry integration

Cloud native: HA, performance and scalability

Log management

Security and compliance monitoring

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

zabbix.com/roadmap

ZABBIX

THANK YOU!