### ZABBIX 2023 Conference

LATIN AMERICA





# Getting closer to Zabbix 7.0 LTS

#### 250 attendies

79 companies

89 different cities

#### 10 countries

Argentina, Brazil, Chile, Colombia, Equador, Mexico, Perú, Paraguay, Uruguay







Education



Banking



Retail



Chemicals



Government



Healthcare



Finance



Telcos



ΙT



Marketing



Transcation processing, payments































We're

everywhere











**PARIS** AÉROPORT

























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

#### Top benefits of using enterprise open source

1

Better security

32%

2

Higher quality software

32%

3

Ability to safely leverage open source tech

28%

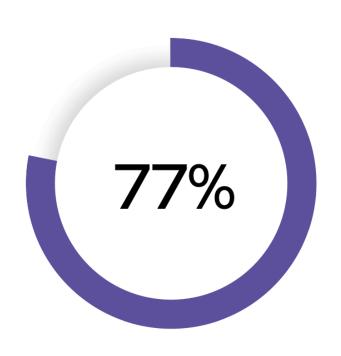


The State of the Enterprise Open Source Report, 2022.



LATIN AMERICA

#### ZABBIX 2023 Conference

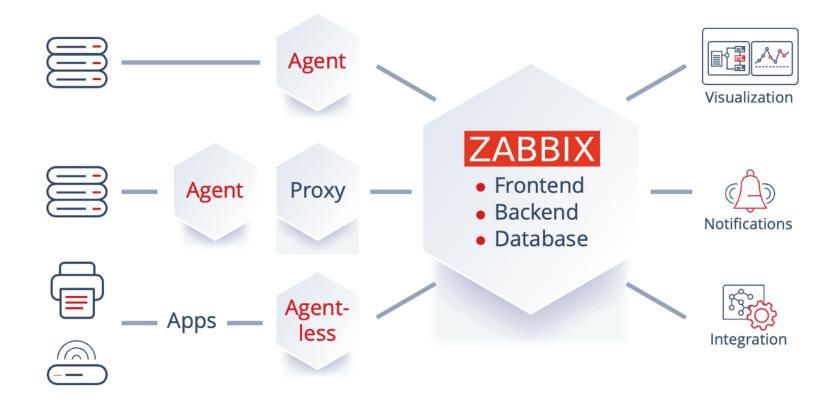


of IT leaders have a more positive perception of enterprise open source than they did a year ago.

(APAC = 75%, EMEA = 79%, LATAM = 77%, U.S. = 77%)



### All-in-one monitoring platform



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

#### **COST OF ZABBIX**

Exceptionally low TCO



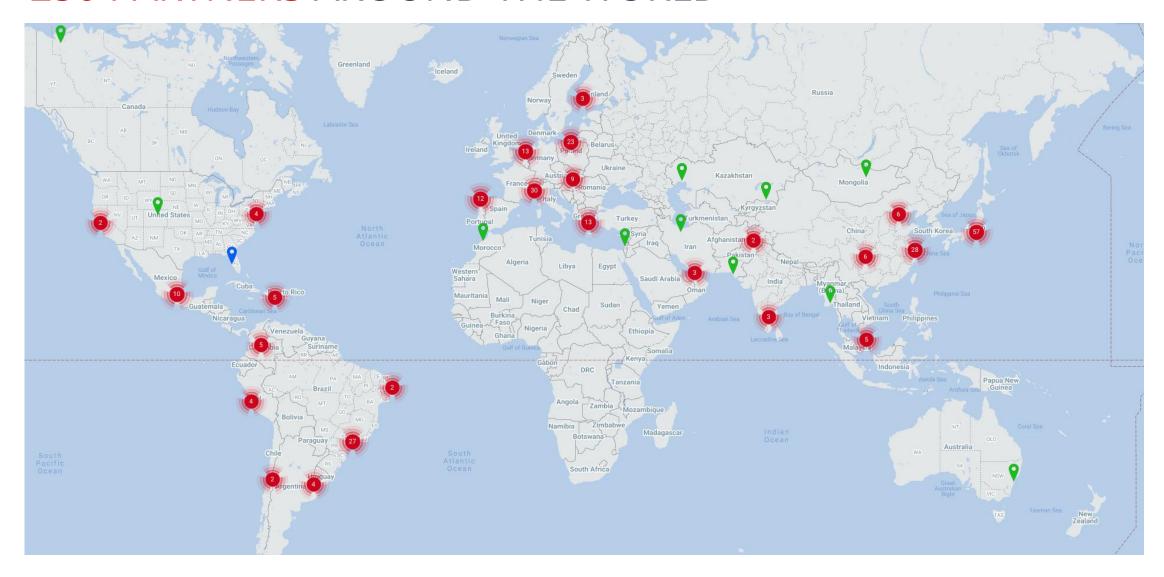
#### YOU'RE COVERED: 24X7 PROFESSIONAL SERVICES

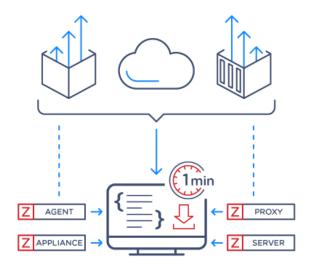


Zabbix team



#### 250 PARTNERS AROUND THE WORLD





### Deploy anywhere



#### **ON-PREMISE**





















#### IN THE CLOUD







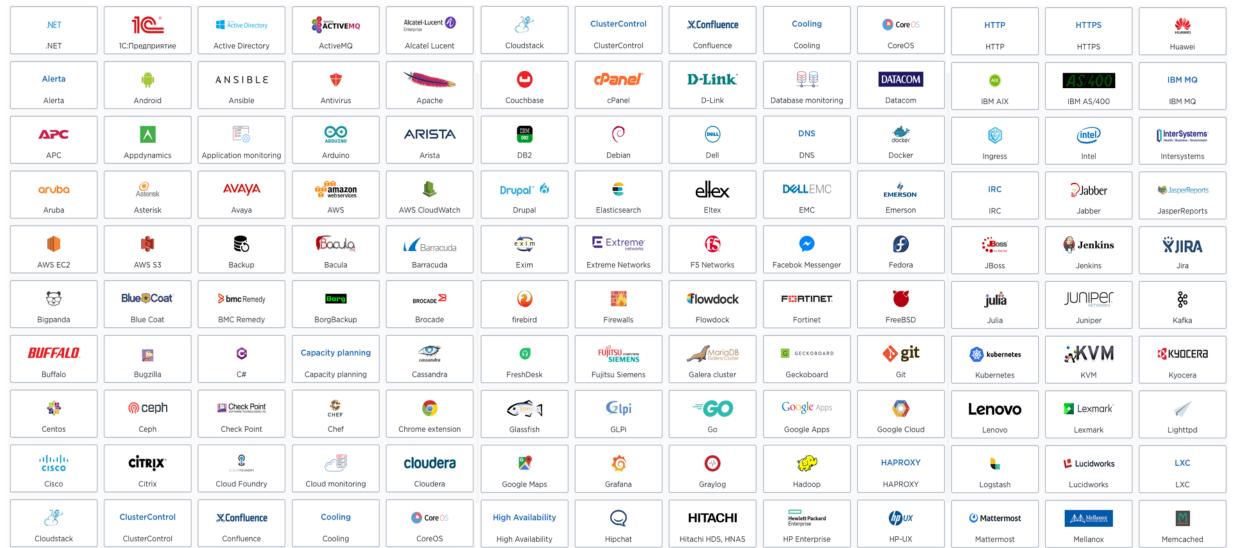




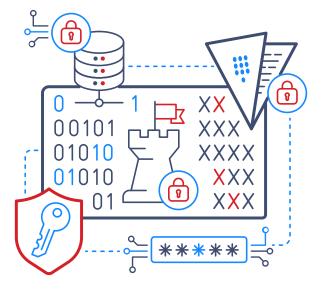
### Monitor anything

Legacy and modern systems, ready for the future

#### OUT OF THE BOX MONITORING



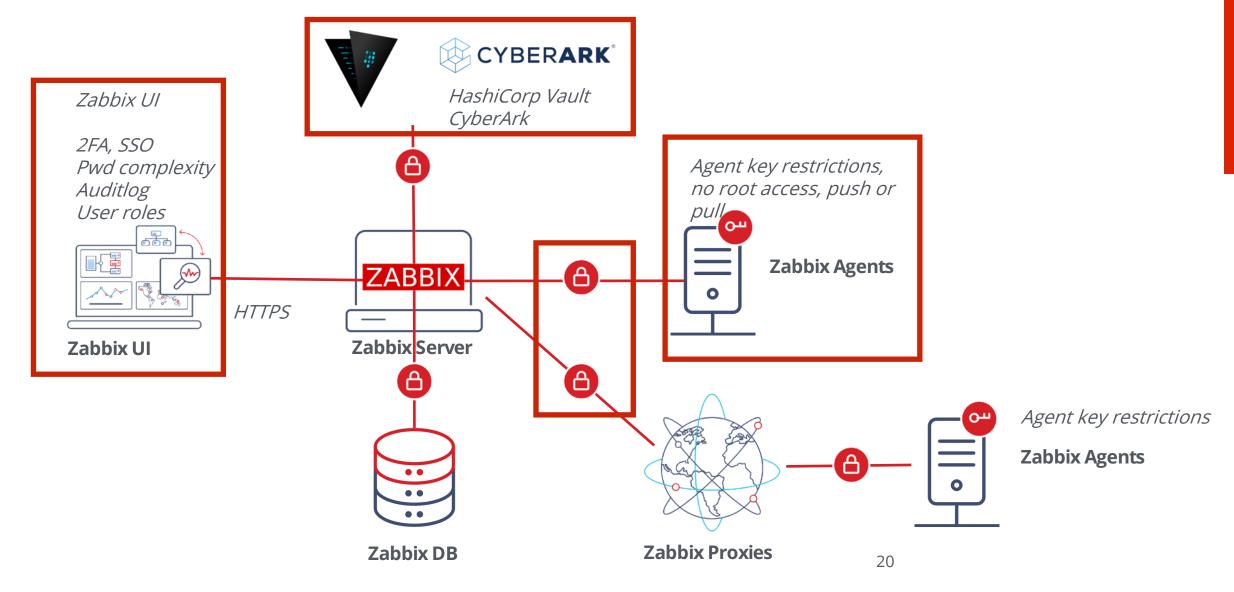
zabbix.com/integrations



### Security on all levels

Highest security standards, verified by independent researchers

#### SECURE BY DESIGN





Bug bounty

ISO/IEC 27001

https://www.zabbix.com/pr/pr429

#### Zabbix Security Advisories and CVE database

How to report a security issue?

Zabbix versions (7) 🗸

Zabbix ID	CVE numb	per CVSS 7ah	obix Synonsis			Component/s	Affected version/s	Published
		CVE/Advisory number:	CVE-2022-43516					
ZBV-2022-12-1	CVE-2022	Synopsis:	Zabbix Agent installer adds "allow all TCP any any" firewall rule				MSI pkg. (29.oct.22 - 2.dec.22)	2022 Nov 30
		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				<=v6.0.8 (Solaris) all versions	2022 Oct 31
ZBA-2022-10-1		Resolution:	To remediate this vulnerability, apply the updates listed in the 'Fixed Version' section to appropriate products or use the workaround					
		Workaraunds:	unds: If an immediate update is not possible, change the applied local firewall rule to allow the agent port only.					
		Acknowledgements:	Joshua PowellNishiyama				<=31/Oct/2022	
ZBV-2022-10-1	CVE-2022						4.0.0-4.0.44	2022 Oct 18
		Component/s Af	fected version/s Fix version/s CVSS score Zabbix severity Tickets 5.0.0-5.0.29 6.0.0-6.0.9					
		Agent, M Agent2	1SI pkg. (29.oct.22 - 2.dec.22) MSI pkg. => 3.dec	c.22 6.5	Medium	ZBX-22002	6.2.0-6.2.4	
ZBV-2022-09-1	CVE-2022	S					6.0.0-6.0.11	2022 Sep 21
			Generation			generation	6.2.0-6.2.5	
ZBA-2022-07-1	-	- Zabbix products are not affected by CVE-2022-2068 vulnerability in OpenSSL				-	-	2022 Jul 26
ZBV-2022-07-1	CVE-2022-4	10626 4.8 Med	dium Reflected XSS in action configura	ation window of Zabbix Fr	rontend	Frontend	6.0.0-6.0.6 6.2.0	2022 Jul 08



# Data processing platform

Real-time data collection and analysis



#### **ZABBIX FEATURES**

All benefits of Zabbix in one place

Use as a reference

Answers many FAQs

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

Collect From Flexible Zabbix Agent-Less
Any Source Metric Collection Agent Monitoring

Synthetic Monitoring Custom Collection Methods Data Transformation

#### 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

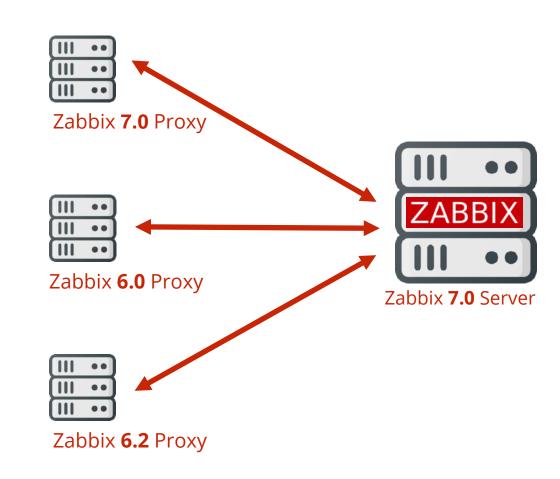
#### **Before Zabbix 6.4:**

All Zabbix components (except agents) must be upgraded simultaneously

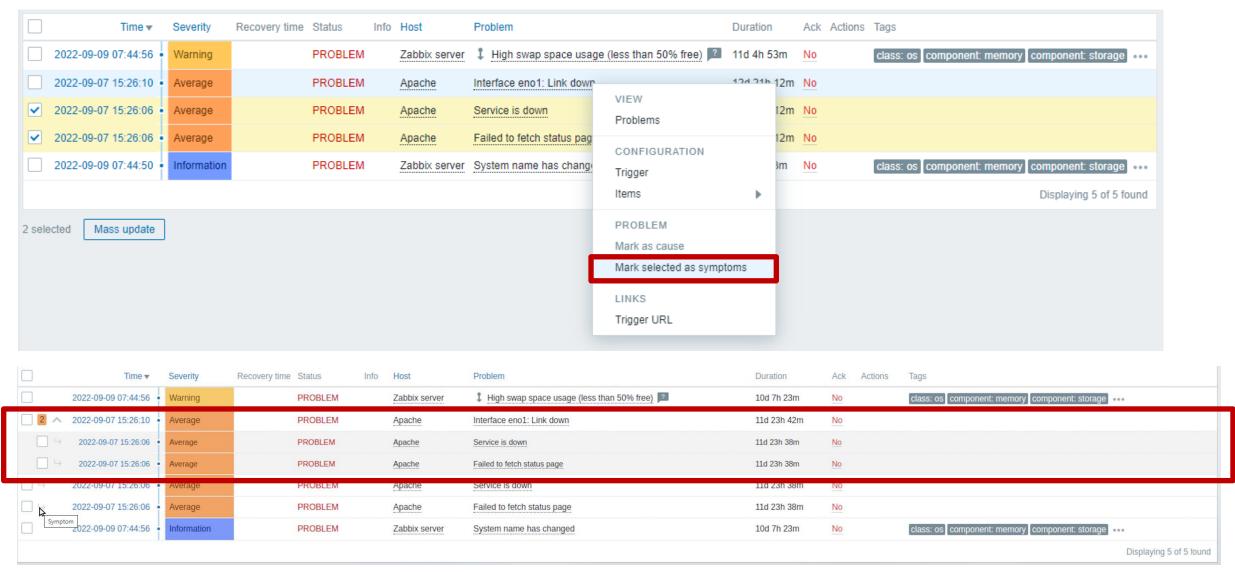
#### Zabbix 6.4:

Older proxies will continue to process data

Creates a longer time window for upgrade



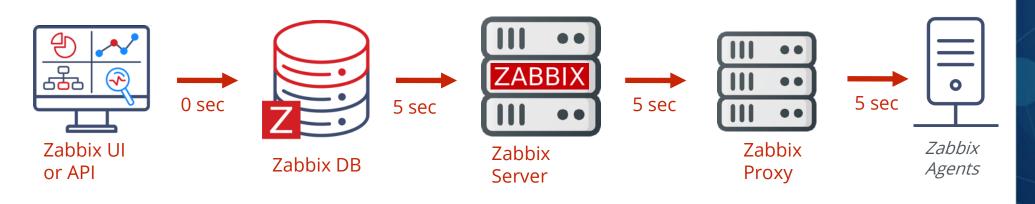
#### THE CONCEPT OF CAUSE AND SYMPTOM EVENTS



#### 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

Support of **SCIM** provisioning



#### REAL-TIME DATA STREAMING

ZABBIX

Zabbix Server

Connectors for real-time streaming of metrics and events

#### ML, Al anomaly detection



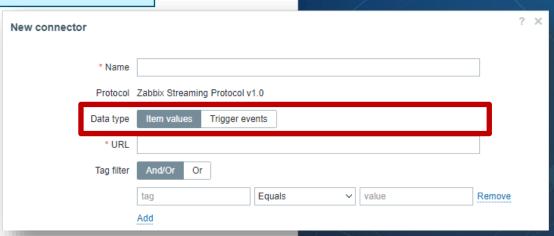








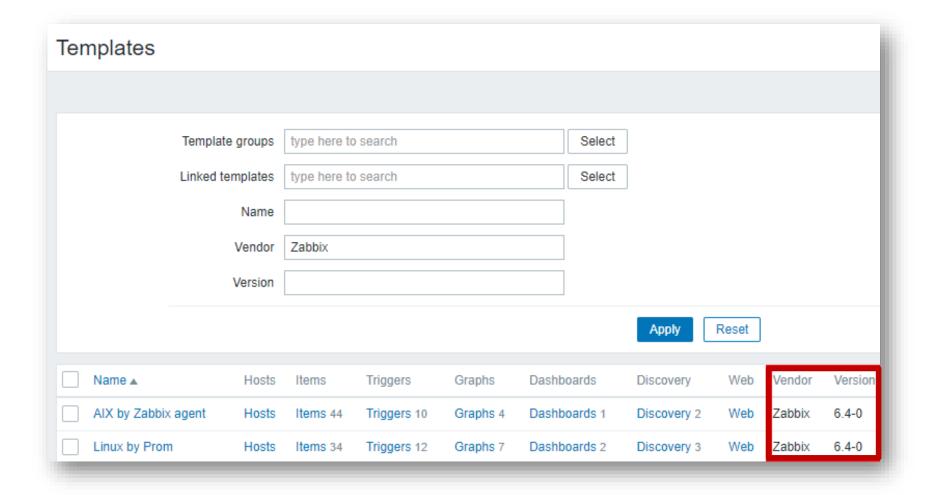






#### TEMPLATE VERSIONING

Information about Vendor and Version



## ZABBIX 2023 Conference



### What's next?

Zabbix 7.0 LTS and more

7.0 LTS

More value for the enterprise

General usability: UX and UI, ease of use

Cloud monitoring, visualization and reporting

Event and problem handling and processing

Extendability on all levels: agent plugins, UI modules, 3rd party widgets, webhooks

HA, scalability and load balancing

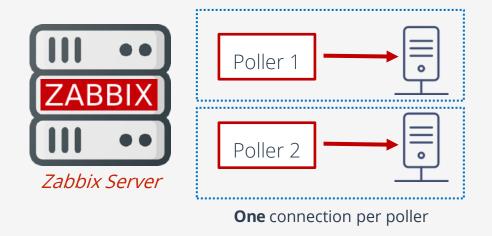
Lower maintenance cost

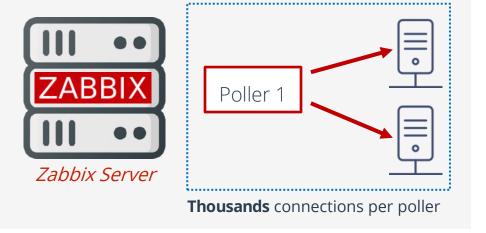
#### ASYNCHRONOUS DATA COLLECTION AND THREADS

One poller to handle thousands of connections

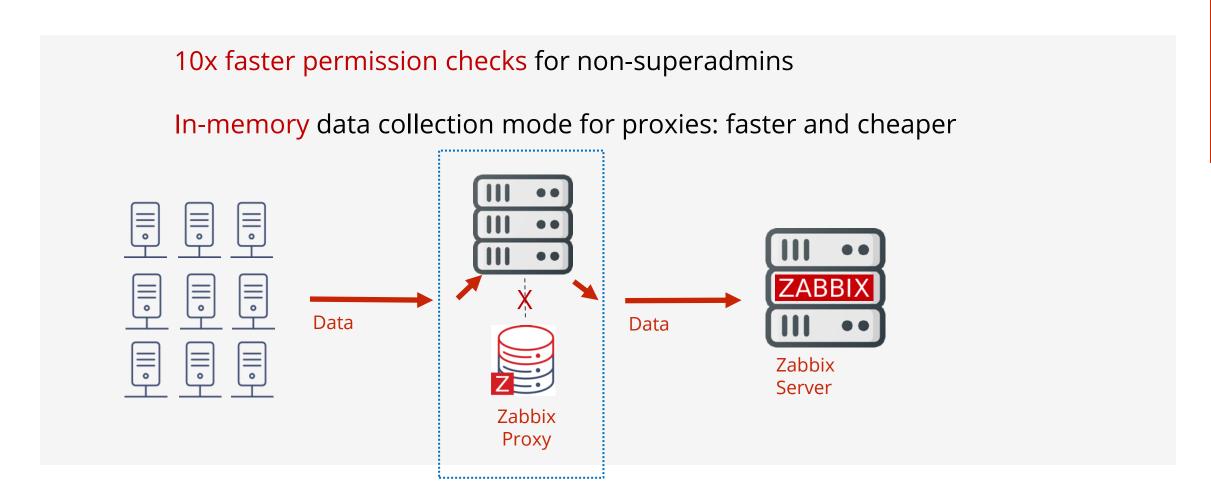
Much lower resource usage

Enables auto-scaling of Zabbix configuration in the future





#### PERFORMANCE IMPROVEMENTS



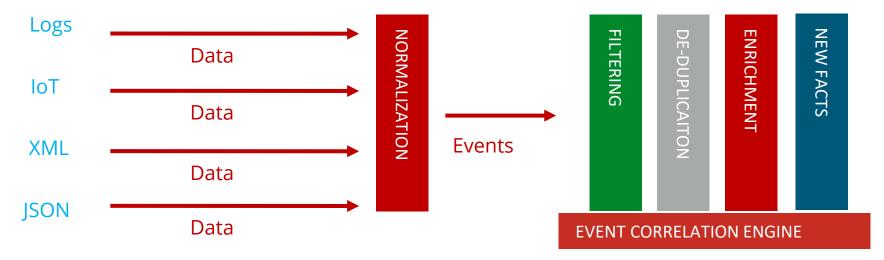
# ADVANCED EVENT CORRELATION

Tag based event pre-processing and correlation

Event filtering, de-duplication, enrichment

Normalization and noise reduction

#### Generation of new facts



Zabbix events



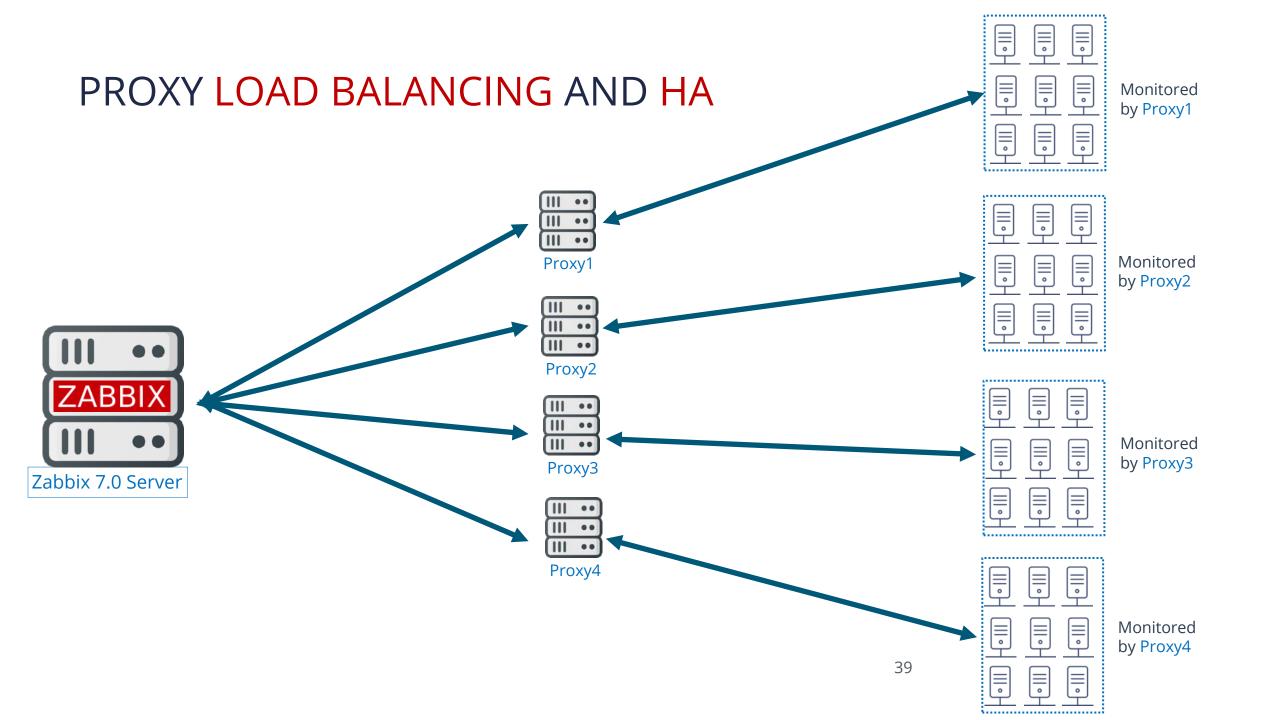


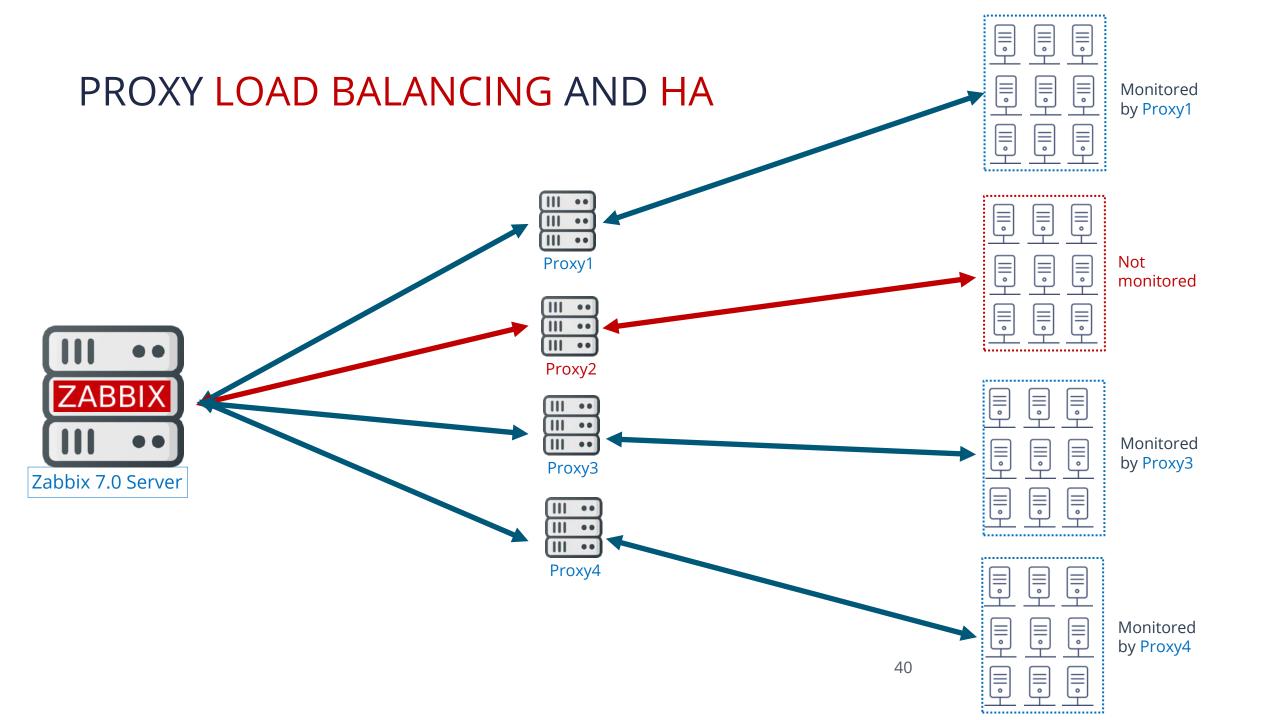
#### **Use cases:**

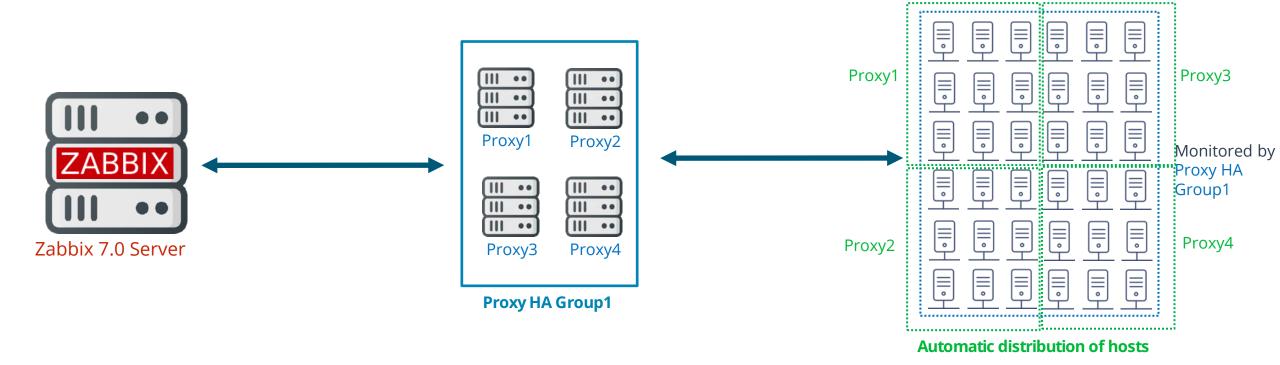
High availability of proxies

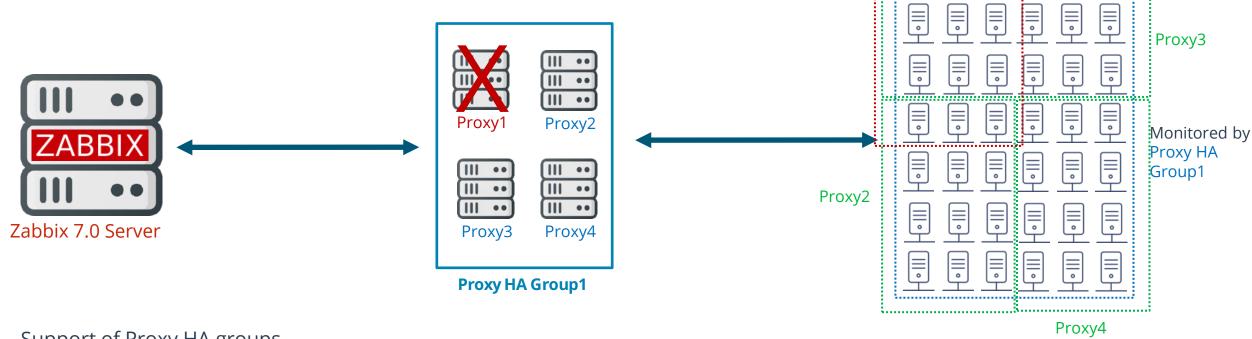
Load balancing: automatic distribution of hosts accross group of proxies

Auto-scaling of proxies in K8S environment





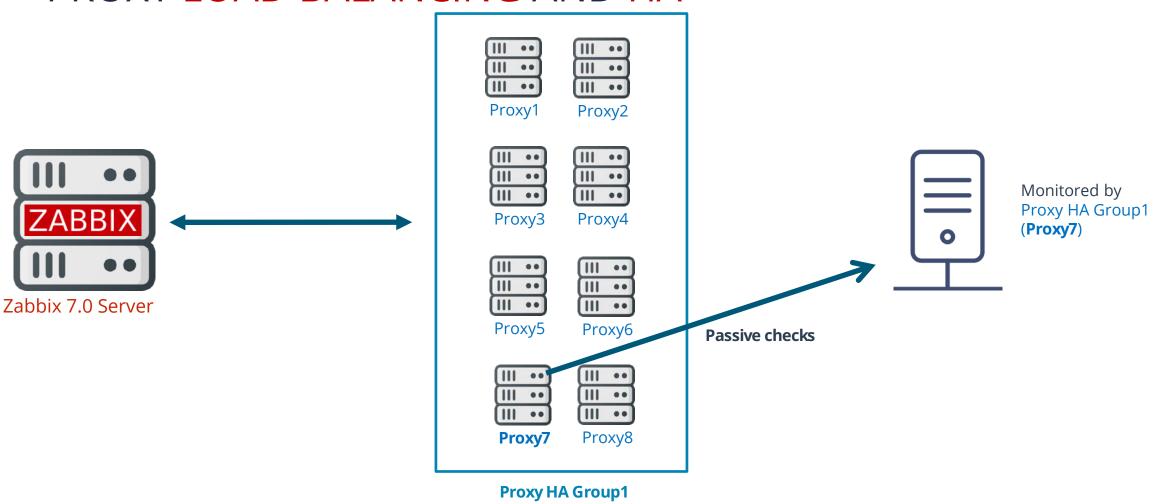


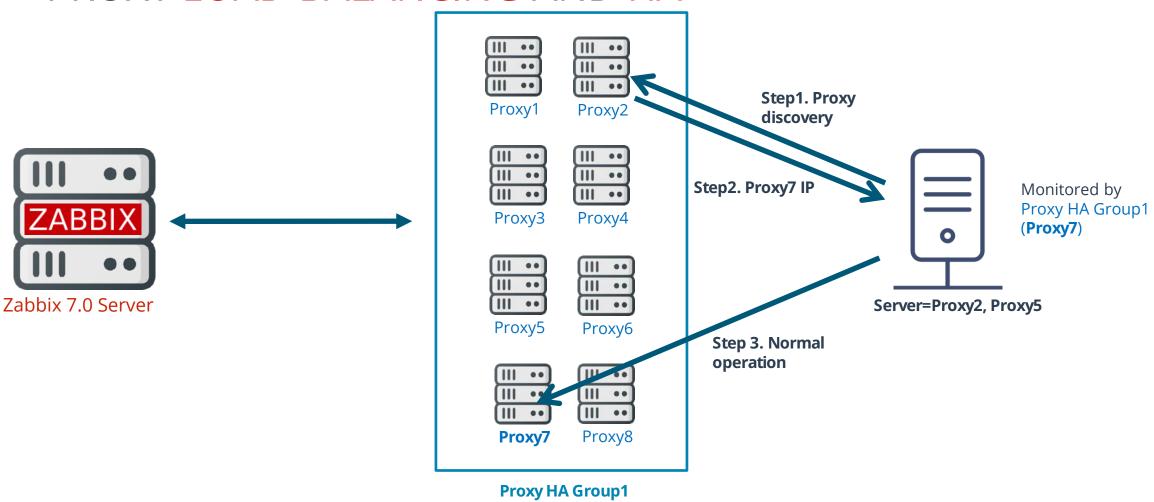


Support of Proxy HA groups

Proxy load balancing and HA by automatic assignment of hosts to proxies

A host can be monitored by Zabbix Server, a proxy or a proxy HA group





# SINGLE PANE OF GLASS: VISUALIZATION



## Dashboards navigation

One-click widget navigation

Stable framework for widget devs

Use all widgets everywhere (host and global)



# **NEW WIDGETS FOR REAL-TIME AND REPORTING**



#### **Basic widgets**

Pie and donut charts

Gauge charts



## Reporting

Capacity reports

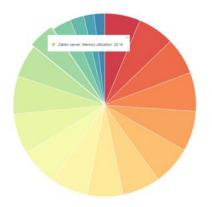
Top triggers widgets



## Widgets navigators

Host navigator

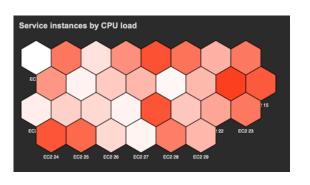
Item navigator



#### **Advanced widgets**

Hexagon host status

Zabbix topology



# CENTRALISED MANAGEMENT OF ITEM TIMEOUTS

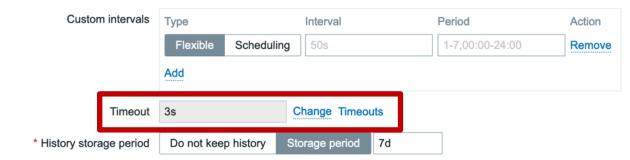
**Now,** zabbix\_server.conf:

Global **Timeout=3** 

#### Zabbix 7.0 LTS:

Global, Proxy and item level timeouts

Managed from Zabbix UI



## REAL-TIME DATA INGESTION

Connectors for real-time ingestion of metrics



















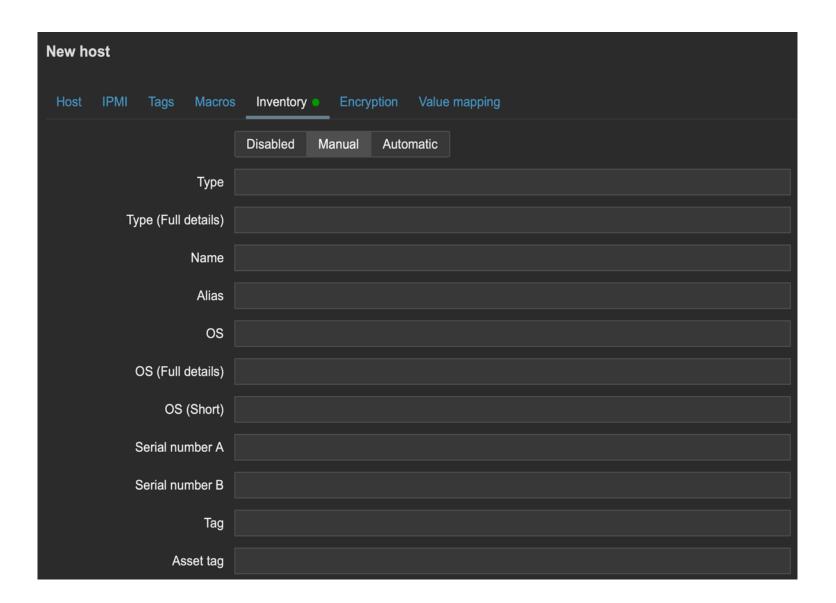
# **CUSTOM INVENTORY FIELDS**

Now:

Fixed fields

#### Zabbix 7.0 LTS:

Extend using templates



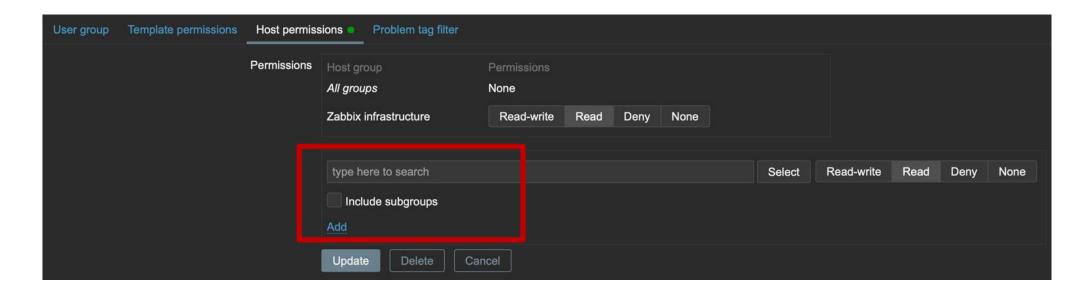
## **BACKLOG AND USABILITY IMPROVEMENTS**

### **Other improvements**

Inline form validation

Test function and Remote commands for active agents

Fixing awkward usability issues



#### 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

Flexible data gateway for ingesting time-series data in various formats using various protocols

★ Top voted!

• Custom inventory fields In design

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 In dev
- TopN item widget

Displaying data table view for items from a single of multiple hosts, also for LLD items

ZBXNEXT-4036

- Top100 triggers widget In dev ZBXNEXT-6973
- Host tree navigation widget In design
- Item tree navigation widget In design

#### 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



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New

In design

In dev

Ready

51

## zabbix.com/roadmap

## LOOKING IN THE FUTURE

8.0 LTS
Data processing platform

Open Telemetry integration

APM + tracing

Log management

Advanced event processing and correlation

Performance and scalabilty

Use of AI and ML for advanced monitoring, anomaly detection and analytics



# Thank you!