

# ZABBIX NOW AND IN THE FUTURE

ZABBIX '24

CONFERENCE

JAPAN



Zabbix

Alexei Vladishev  
Founder and CEO

#ZabConfJp2024

## Platinum sponsor



## Gold sponsors



## Silver sponsors



## Bronze sponsors



## Venue sponsor



# Agenda

1. Zabbix Cloud
2. Zabbix 7.0 LTS
3. What is coming in 7.2
4. Zabbix 8.0 LTS roadmap

# ZABBIX MISSION

We help businesses deliver flawless services for a better world and happier people. ■



Zabbix Cloud! 🎉 🎉 🎉



Enterprise SaaS

7 tiers

5 regions



# 7 tiers for various needs

From SMB to large enterprises:

Tier	Max performance (NVPS)
Nano	50
Micro	100
Small	250
Medium	1K
Large	2.5K
xLarge	5K
2xLarge	10K

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



# Starts with 50\$ per month

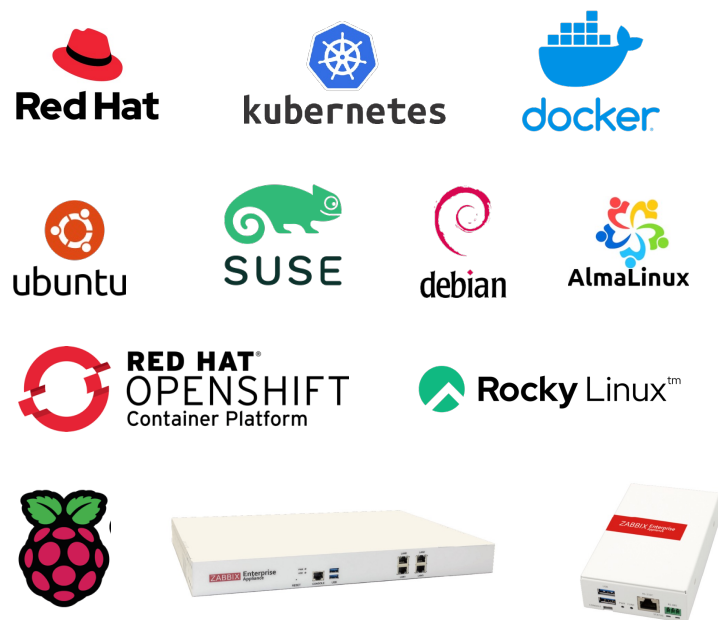
First 10GB are free forever then 0.3\$ per GB per month

Predictable pricing:

- Fixed price: fee per selected tier + fee per storage
- No extra charge for the number of hosts, users, metrics

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

## ON-PREMISES



## IN THE CLOUD



## Zabbix Cloud (SaaS)





# Advantages



## Zabbix Cloud

Automatic upgrades and security patches

Automatic and on-request backups

Scale as you grow

Secure

Low TCO, no hidden cost

Fixed pricing for different levels of performance (NVPS) and storage requirements

In a nutshell



Global product

24x7 support in English by Zabbix Global Support

Great solution for MSPs

Run Zabbix instance per customer

Perfect for hybrid use

A combination with Zabbix Proxies

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

# How to start?

Go to:  
[zabbix.com/cloud](https://zabbix.com/cloud)

The screenshot shows the Zabbix Cloud login interface. On the left, the ZABBIX logo is displayed above the heading "Log in to your Zabbix Cloud Account". Below this, there are two input fields: the first contains the email address "john.doe@zabbix.com" and the second contains a masked password. A "Remember me" checkbox is checked, and a "Forgot password?" link is visible. A blue "Log in" button is positioned below the form. At the bottom, a link reads "Don't have an account? Sign up".

On the right side of the screenshot, four key features are highlighted with icons and text:

- 5 regions:** Select from 5 regions and choose the data center that best fits your organization.
- 7 tiers:** Pick a tier that fits your budget and monitoring requirements.
- Unlimited metrics:** Zabbix Cloud does not limit the type and number of metrics you can collect.
- Automatic updates:** It is our responsibility to keep your instances up to date and patched.

At the bottom right of the feature list, there are two small circles, with the second one being filled, indicating the current slide in a sequence.

# Roadmap



## Future plans

Localization for Japanese market

More regions including Tokyo

Pre-paid options without use of credit cards

Migration from on-prem to Zabbix Cloud

# Zabbix 7.0 LTS

More than 110 new features and improvements

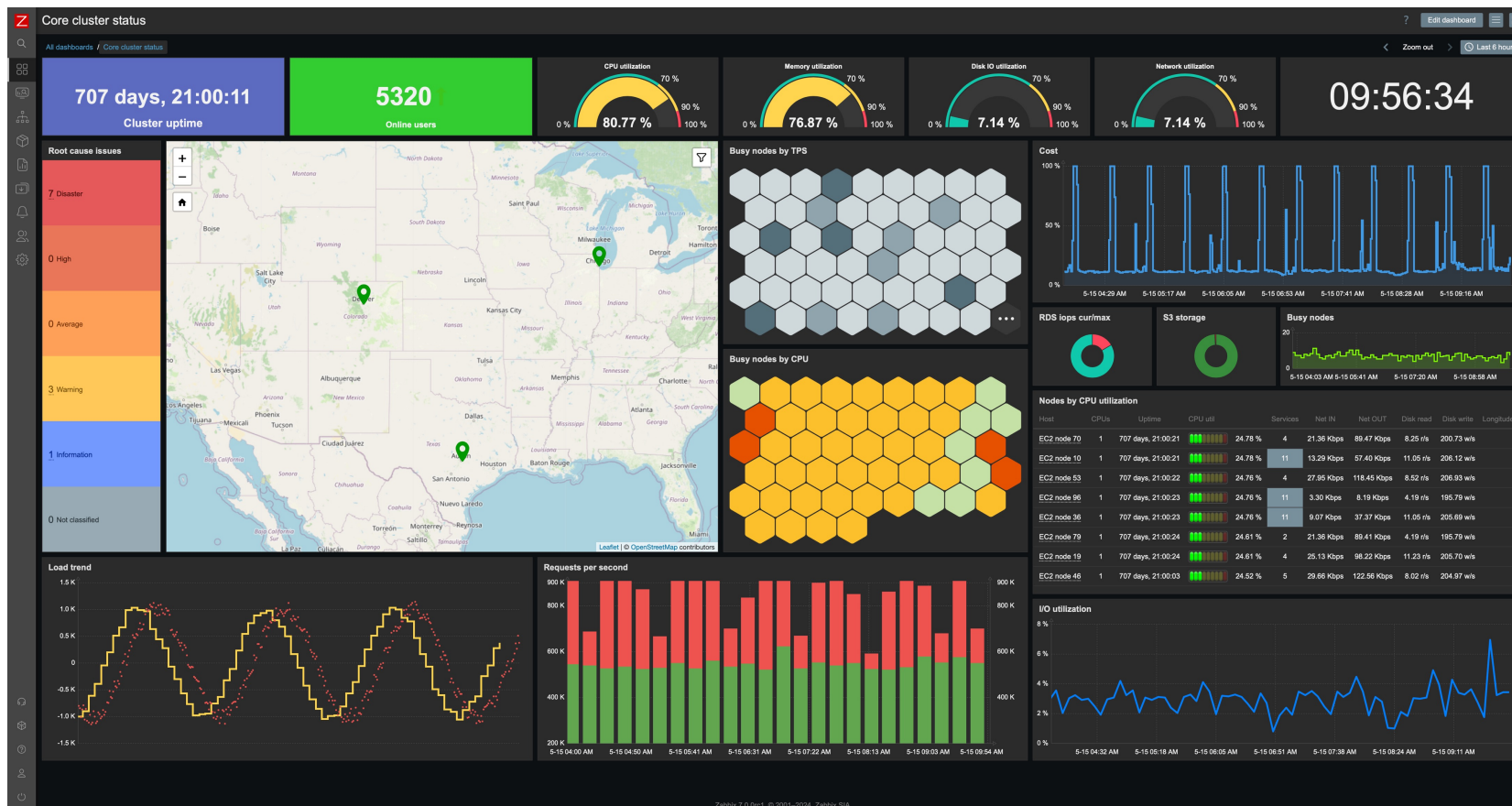
# GPLv2 -> AGPLv3

Free and Open Source software

# A single pane of glass

Total visibility and transparency

# Visualization and reporting



## Zabbix 7.0 LTS

All widgets for host and global dashboards and reporting

Stable framework for widget devs

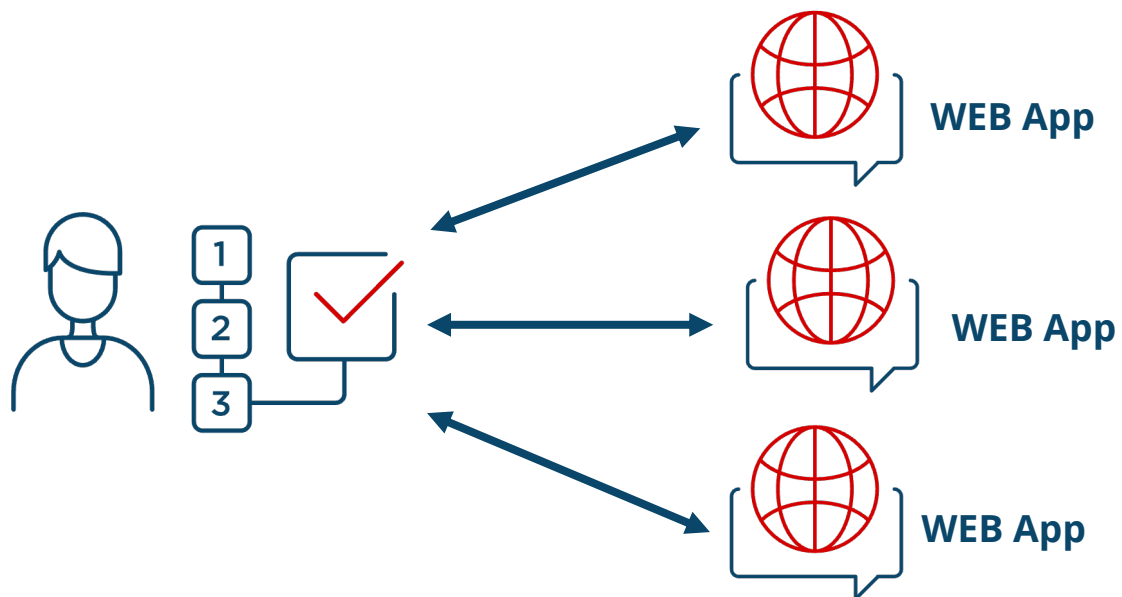
A new set of advanced widgets

Dynamic dashboards for drill-down and specific use cases

Communication framework for widgets



# End-user synthetic WEB monitoring



## Monitoring user experience

End-user experience monitoring for WEB apps

Business scenario monitoring

Multi-step complex monitoring scenario with IF/THEN logic

Get a screenshot of each step

Monitoring of performance, availability and content

New item

Item Tags Preprocessing

\* Name

Type

\* Key

Type of information

Name	Value	Action
<input type="text"/>	<input type="text"/>	<input type="button" value="Remove"/>

[Add](#)

\* Script



# A single pane of glass

## Data processing

OpenTelemetry

Topology and Netflow data

Processing of streaming data

**Tracing, events, logs, binary**

## Visualization and reporting

Visualization of complex data: topology, tracing, flows, etc

Widgets for advanced visualization

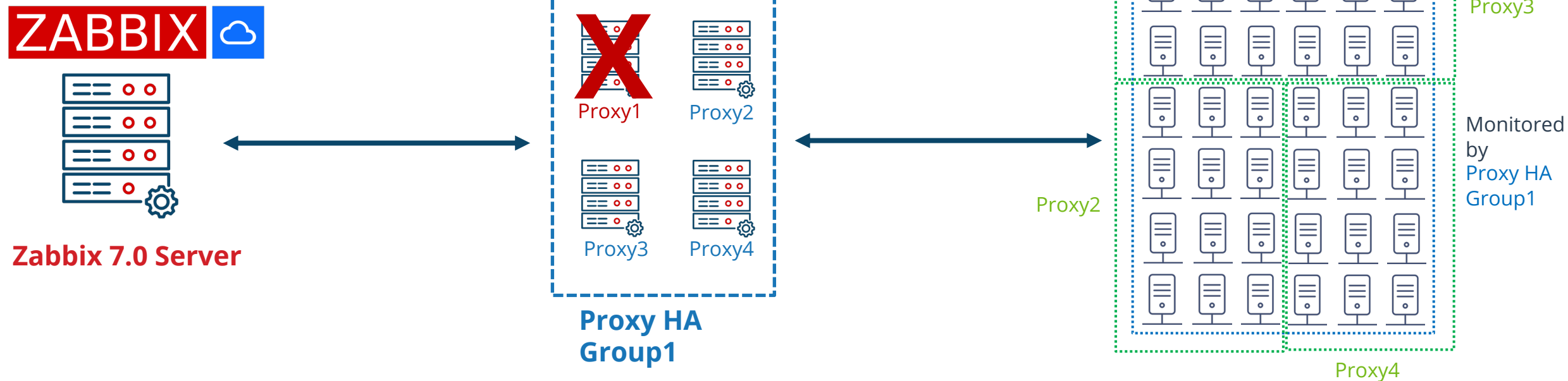
Massive usability improvements of Zabbix UI

Custom UI for any use case

Zabbix 7.x

Zabbix 8.0 LTS

# Proxy load balancing and HA



Safe and more reliable remote monitoring:

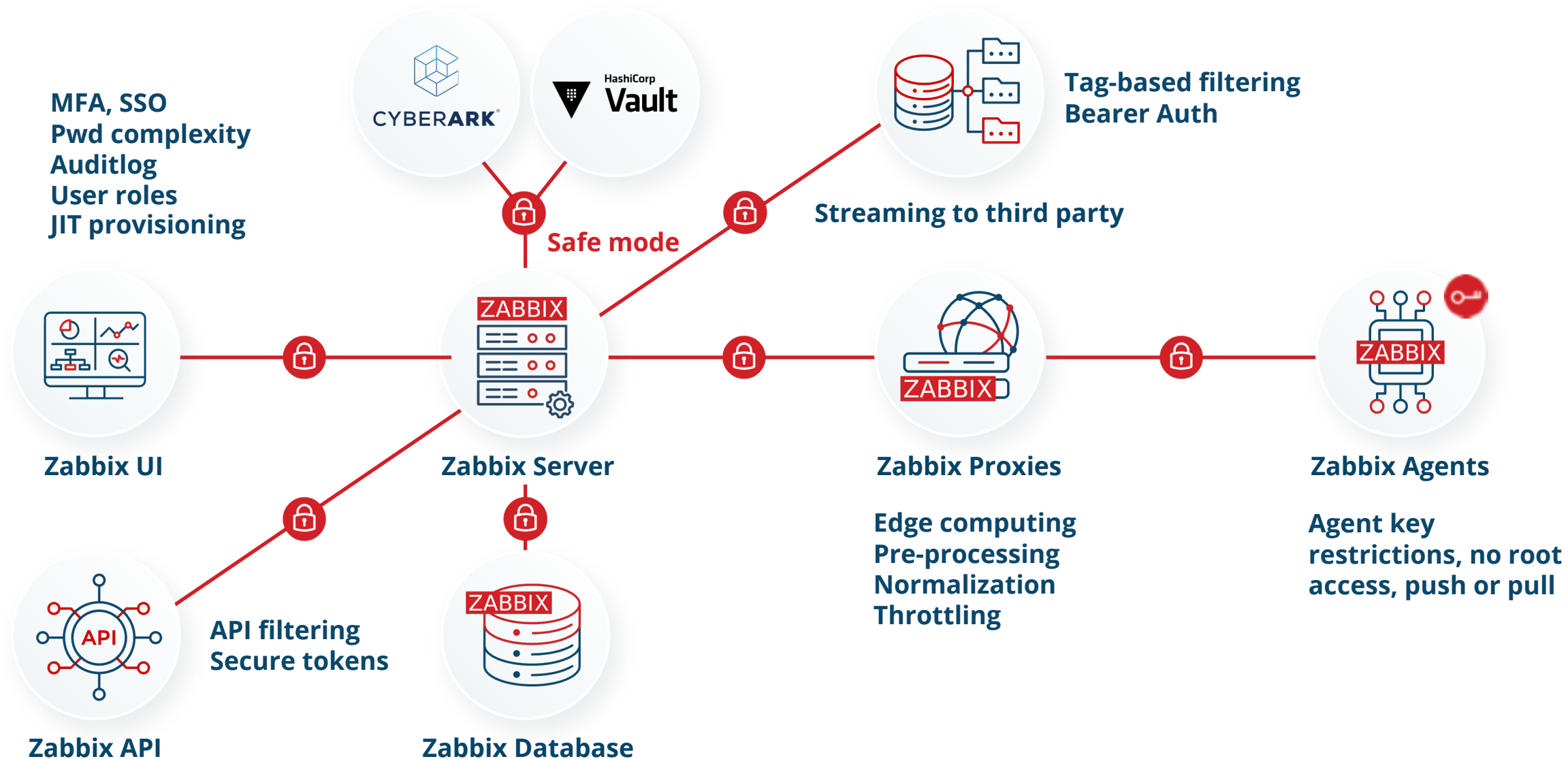
- High availability of proxies
- Load balancing: automatic distribution of hosts across a group of proxies
- Auto-scaling of proxies in a K8S environment



# Quality and security

Our top priority

# The highest security standards



# Enterprise grade MFA

Time-Based One-Time Password authentication

Duo Universal Prompt authentication

Scan this QR code

Please scan and get your verification code displayed in your authenticator app.



Unable to scan? You can use SHA1 secret key to manually configure your authenticator app:  
BBK2557F77D25HNDIZZSW6QYKPSKPG5

Verification code

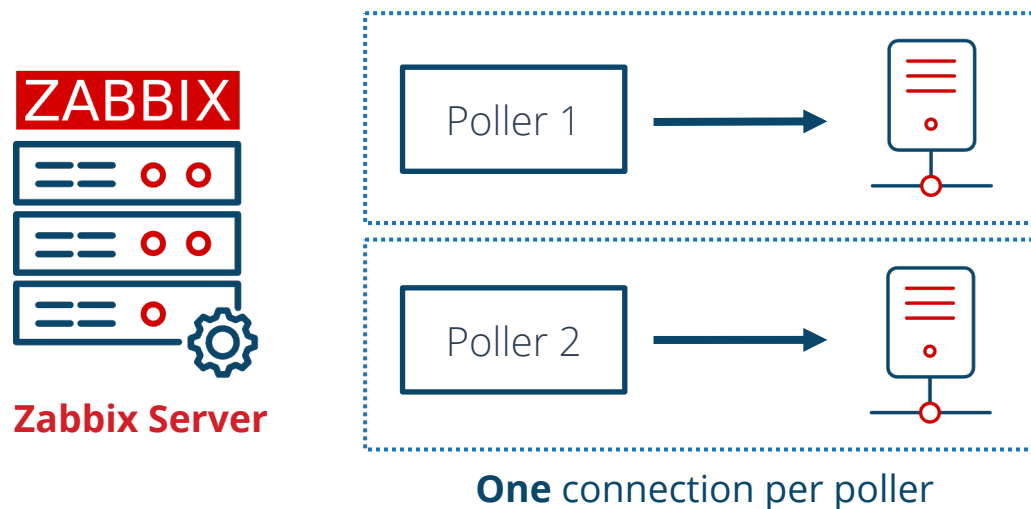
Sign in

# Scalability and performance

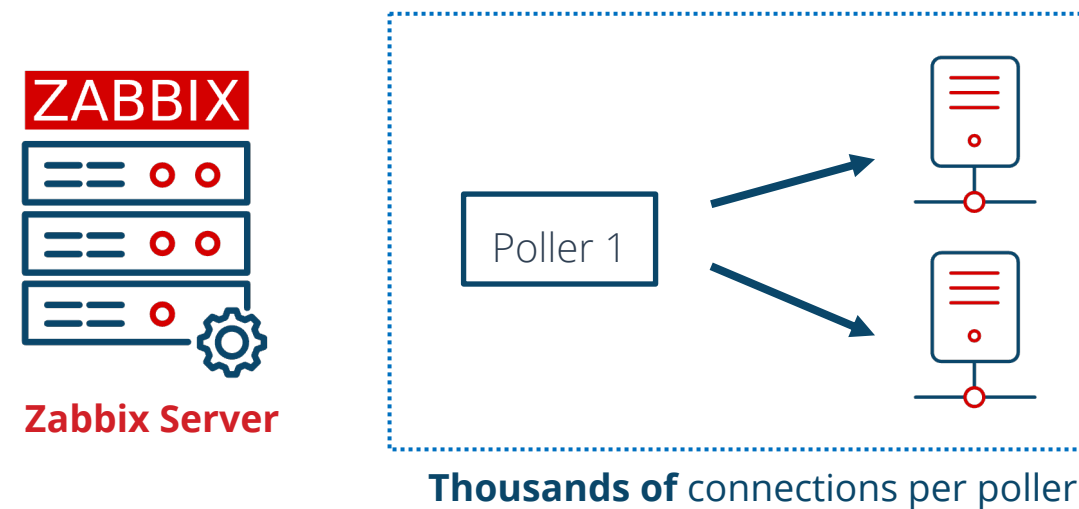
Lower TCO, greener technology

# Performance: transition to async & threads

## 6.0 LTS



## 7.0 LTS



One poller/discoverer to handle **thousands of connections**

Much lower resource usage = lower costs and energy use

Enables **auto-scaling** in the future



# Python library zabbix\_utils

## pip install Zabbix\_utils

```
# Use an authentication token generated via the web interface or
# API instead of standard authentication by username and password.
ZABBIX_AUTH = {
    "url": "127.0.0.1",
    "token": "8jF7sGh2Rp4TlQ1ZmXo0uYv3Bc6AiD9E"
}

# Create an instance of the ZabbixAPI class with the specified authentication details
api = ZabbixAPI(**ZABBIX_AUTH)


# Retrieve a list of users, including their user ID and name
users = api.user.get(
    output=['userid', 'name']
)

# Print the names of the retrieved users
for user in users:
    print(user['name'])
```

# Install or Upgrade to Zabbix 7.0 LTS

<b>Zabbix Packages</b> Download and install Zabbix for free	<b>Zabbix Cloud</b> Available with a 5-day free trial	<b>Third-Party cloud vendors</b> Run Zabbix on third-party cloud platforms	<b>Zabbix Containers</b> Deploy Zabbix components from official Zabbix containers	<b>Zabbix Appliance</b> Run Zabbix from a pre-configured Zabbix virtual appliance	<b>Zabbix Agents</b> Download Zabbix agent for Unix-like and Windows environments
--	--	---	--	--	--

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







## Explore Zabbix Cloud with a 5-day free trial

Scale as you go with Zabbix Cloud!

Deploy your own Zabbix environment with just a few clicks and set up distributed monitoring in regions all around the globe.

[Try Zabbix Cloud](#)

-  **5 regions**  
Choose the data center that's closest to your organization
-  **7 tiers**  
Pick the tier that fits your budget and monitoring requirements
-  **Peak performance**  
Every Zabbix Cloud instance is tuned to ensure the best possible performance
-  **Automatic updates**  
Get a hassle-free upgrade to the latest Zabbix version

# Zabbix 8.0 roadmap

## 7.x

Advanced event correlation

OpenTelemetry and tracing

Custom inventory

Scalable history storage

Massive usability improvements

## 8.0 LTS and later

Ultimate observability platform

APM and compliance monitoring

Event and Log management

Use of AI and ML for operations, advanced anomaly detection and fault prediction

Management functions

# Zabbix 7.2

Evolutionary improvements, not a revolution

Preparing codebase for bigger changes

Normalizing release schedule to have a next major release every 6 months

Some of the important improvements were already backported to **7.0.x LTS**

**Important:** Support of Oracle storage has been removed

# Host card widget

Displays the following information:

- Host details
- Availability data
- How it is monitored
- Inventory data

Host card
⚙️ ...

## Zabbix server

1 1

Disabled

---

This is dummy host used for testing and developments purposes within the example.com network.

---

Host groups
Linux servers, Application servers

---

2

2

0

3

---

Availability

ZBX

IPMI

JMX

---

Monitored by

Zabbix server

---

Templates

SpecialOne (Linux by Zabbix agent),  
 SpecialTwo (Linux by SNMP)

---

Inventory

Type	linux host
OS	Linux version 6.5.0-25-generic...
Serial Number A	1155600023
MAC Address A	12:77:22:51:36:21

---

component: network

server:isolated

software:linux

class:os

process:conversion

component: network

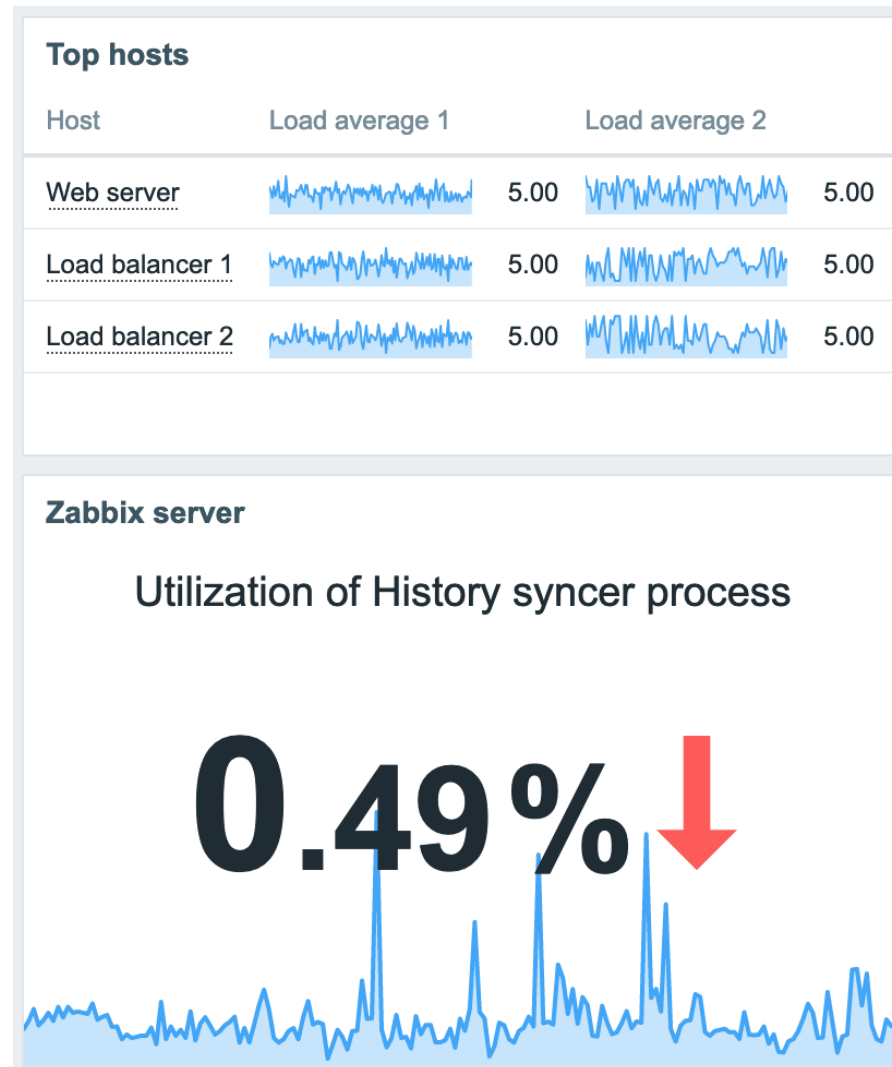
...

# Sparkline charts

Observe values change over time

Integrated into:

- Top hosts widget
- Item value widget



# GPU monitoring

Monitoring of NVIDIA GPUs

Ensure that GPUs are well utilized

Availability of GPU resources

Important for businesses relying on AI technologies



# Netconf protocol

Network configuration protocol

Monitoring and management of  
configuration data of network devices

Supported by:

- Cisco IOS
- Cisco NX-OS
- Juniper Junos
- Arista EOS
- Huawei VRP
- Dell Networking OS
- Brocade VDX
- Extreme Networks ERS
- OpenWrt

ARISTA

JUNIPER  
NETWORKS



BROCADE





# ZABBIX

## ROADMAP



This page contains a provisional list of upcoming features, which may be updated at any time without prior notice

Zabbix 7.2

Zabbix 7.4

Zabbix 8.0 LTS

### Zabbix 7.2

Planned release date: Q4 2024

#### Advanced visualization and reporting

- Sparkline charts **In dev**  
Sparkline charts enabled widgets  
[ZBXNEXT-9232](#)
- Logarithmic scale for graphs **In dev**  
[ZBXNEXT-599](#) ★ Top voted!
- Auto-apply mode for dashboard editing **In dev**  
WYSIWYG style dashboard editing  
[ZBXNEXT-9319](#)

#### New widgets for dashboards and reporting

- TopN item widget **In dev**  
Display data table view for items from a single or multiple hosts, also for LLD items  
[ZBXNEXT-4036](#), [ZBXNEXT-7689](#) ★ Top voted!
- Host card widget **In dev**  
Display host details  
[ZBXNEXT-9086](#)

#### General usability improvements

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

## Release dates

Zabbix 7.2	2024, December
Zabbix 7.4	2025, June
Zabbix 8.0 LTS	2025, December or later

THANK YOU

ZABBIX '24

CONFERENCE

JAPAN

#ZabConfJp2024