ZABBIX 7.0

ZABBIX 7.0 LTS AND BEYOND

Alexei Vladishev Founder, CEO





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





A single pane of glass

IT & OT

The ultimate monitoring and observability solution

Extremely adaptable to any use cases

Lowest TCO

Superb visualization and reporting

Highly scalable (downscaling and upscaling)



Staying open-source

An inclusive solution



GPLv2 -> AGPLv3 Does it make any difference?



ON-PREMISE





















IN THE CLOUD











Sustainability

Long-term thinking



24x7 professional services for end-users and MSPS

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Upgrade

Use the latest version

Eliminate risk and minimize downtime



Talk to experts

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

Turnkey solution

Deploy professionally

Install and configure Zabbix according to your specific requirements

Template building

Customize monitoring

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

Technical support

Get technical advice

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



Professional training

Obtain knowledge

Focused, comprehensive training for all your Zabbix needs



Development

Enhance Zabbix

Let Zabbix develop additional features for your business needs



Integration

Expand your workflow

Connect Zabbix to your ticketing system, service desk, or any other tool

Remote troubleshooting

Quickly get a solution

Eliminate any issues you have run into within hours rather than days or weeks

Migration

Move all your data to Zabbix

Switch to Zabbix without the trouble of moving all your legacy infrastructure yourself





Steady growth





150 +

Zabbix **team** members

250+

partners around the world



Zabbix 7.0 LTS

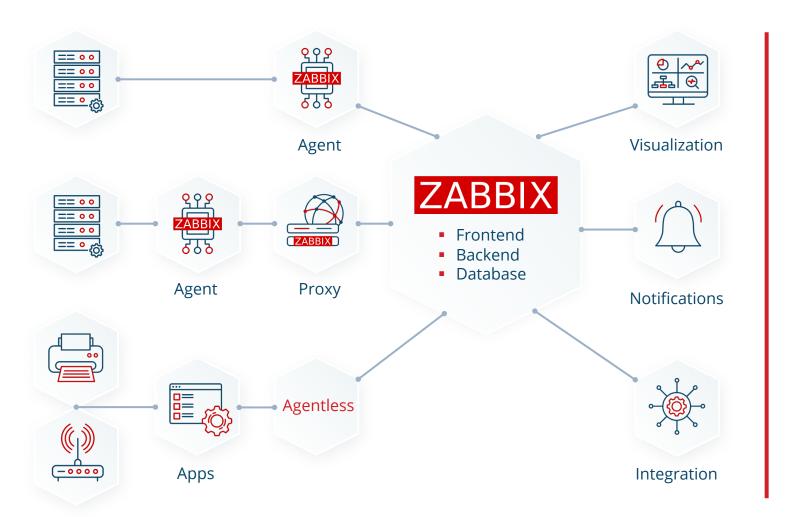
More than 110 new features and improvements



An all-in-one solution One product to cover it all



Collect --- Analyze --- React and Visualize



High-quality data, also for AlOps

Proxies for DM and Edge computing

API for automation and integrations

Auto-remediation

Anomaly detection



All levels: from infrastructure to business

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IT & OT

Business services
SLA/SLI
Synthetic
Cloud
K8S
OpenShift
Containers

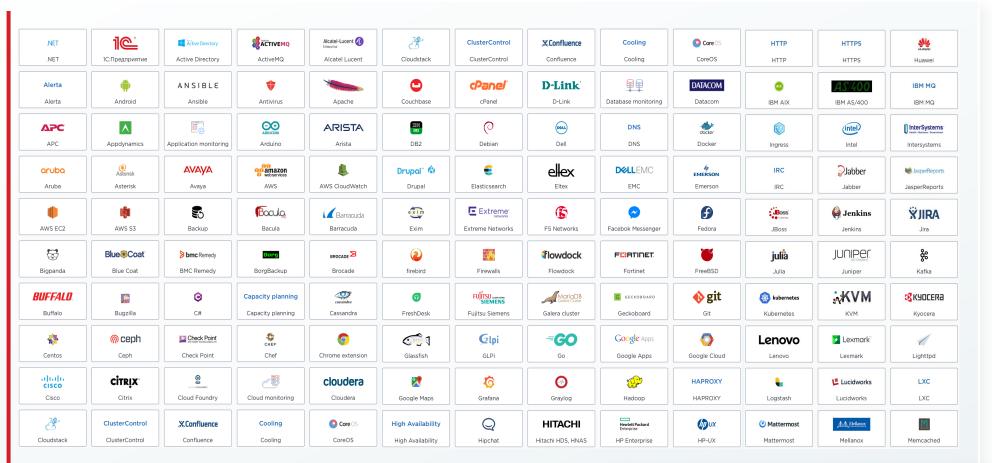
APIs WEB

User experience

Applications Processes OS

Environment

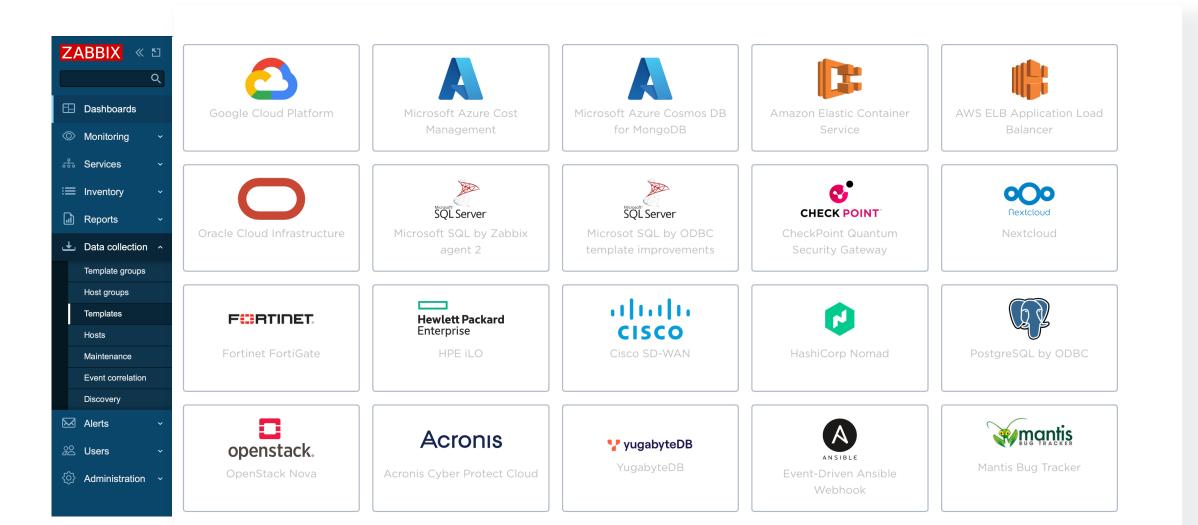
Hardware Industrial Network devices IoT and sensor data



zabbix.com/integrations



More templates and integrations!





Quality and security Our top priority

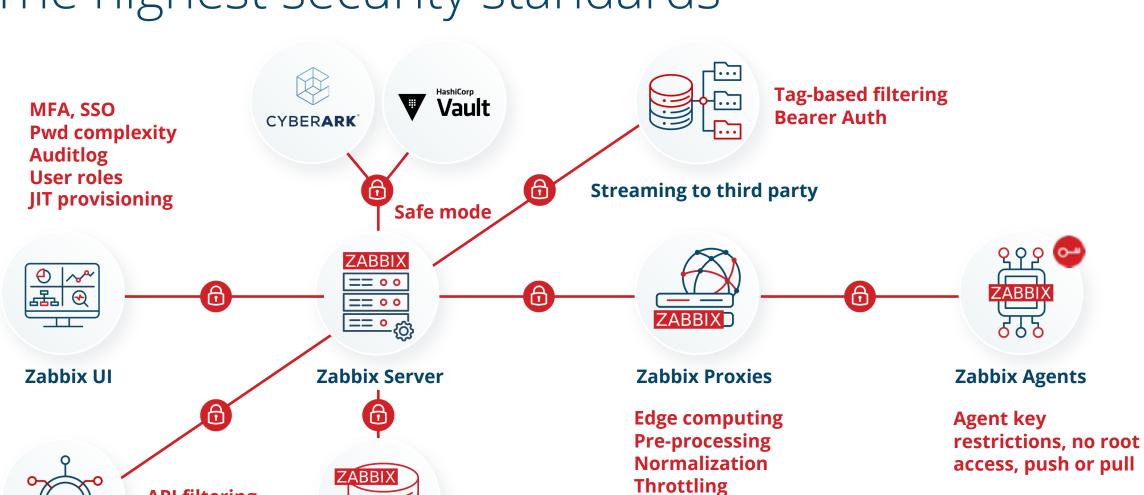


The highest security standards

Zabbix Database

API filtering Secure tokens

Zabbix API



16



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: BBK2557F77D25HNDIZZSW6QYKPSEKPG5

Verification code		

Sign in

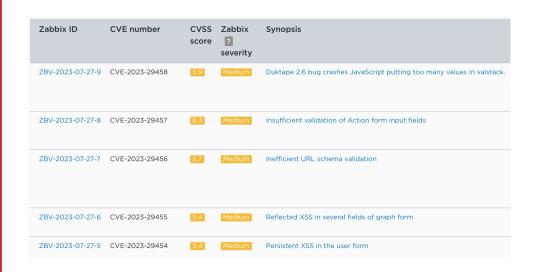


Verified by independent researchers





Bounties paid in 2023: ~\$17K



Security advisories and CVE database



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



New widgets for real-time viewing and reporting

Core widgets

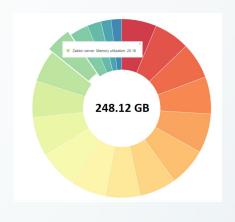
Pie & donut charts
Gauge charts
Item history



Reporting

Capacity reports

Management
reports



Widgets navigators

Host navigator Item navigator



Advanced visualization

Honeycombs

Service trees

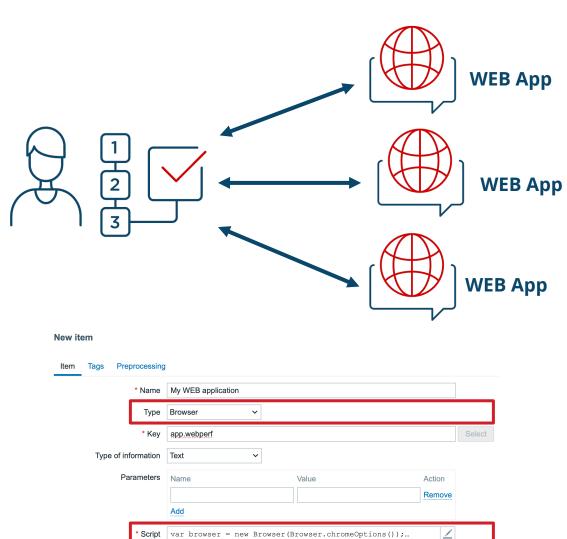
Topology







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

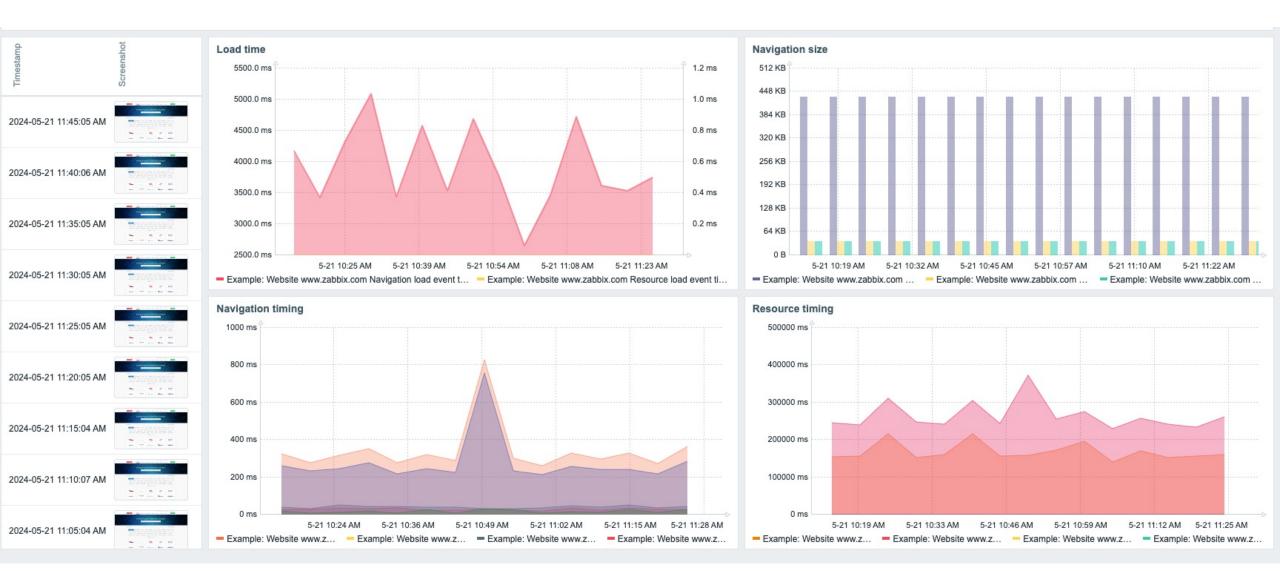
Get a screenshot of each step

Monitoring of performance, availability and content





End-user synthetic WEB monitoring





A single pane of glass

Dashboards

Scheduled PDF reporting

Business service monitoring (BSM)

User roles

Metric processing

Data processing

APM and tracing functionality

OpenTelemetry

Topology data

Processing of streaming data

Tracing, events, logs, binary

Visualization and reporting

Visualization of complex data: tracing, flows, etc

Widgets for advanced visualization

Massive usability improvements of Zabbix UI

Custom UI for any use case

Framework for widget development

Zabbix 7.0 LTS Zabbix 8.0 LTS



Scalability and performance

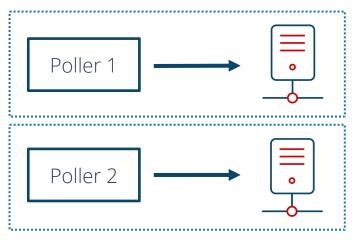
Lower TCO



Performance: transition to async and threads

Now

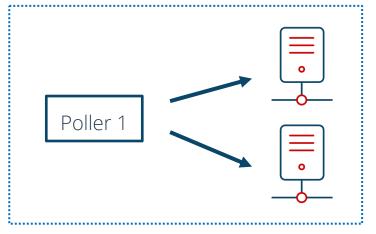




One connection per poller

7.0 LTS





Thousands of connections per poller

One poller/discoverer to handle thousands of connections

Much lower resource usage = lower costs and energy use

Enables auto-scaling in the future



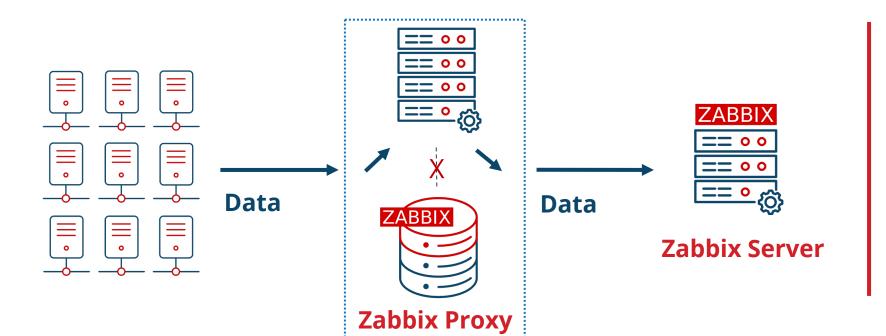
Performance: faster front-end for larger scale



10x faster Zabbix UI for non-superadmins



In-memory data collection mode for proxies



Less IOPS

Faster

Cheaper

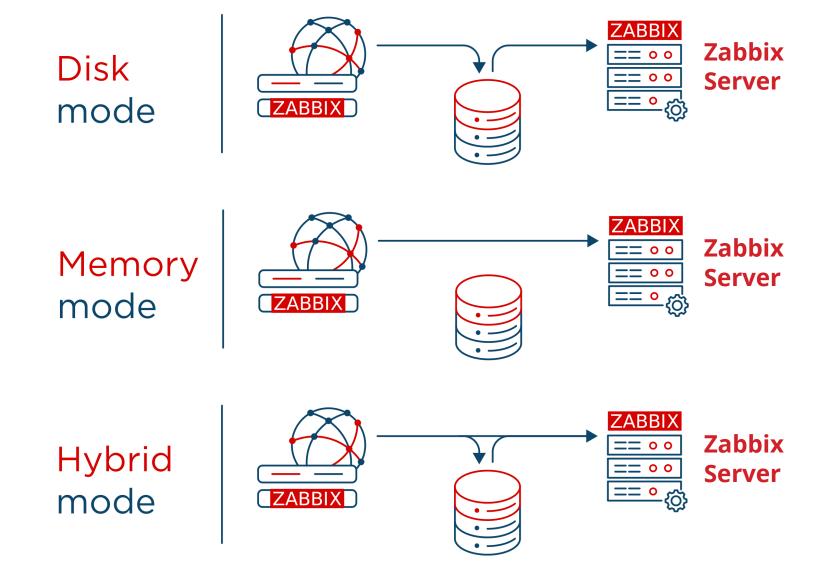
Less energy







Various modes





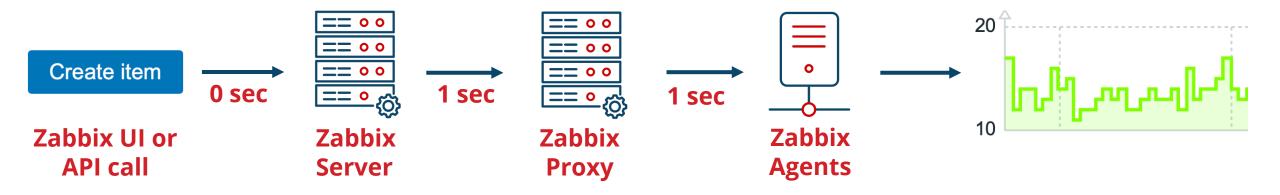


Instant configuration update

Incremental updates of configuration changes

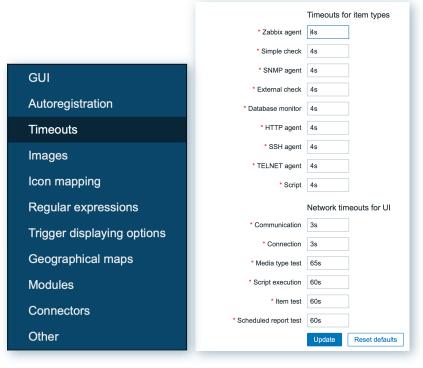
New items are now checked within a minute after creation

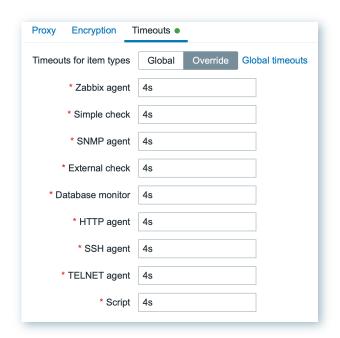
Extreme responsiveness!

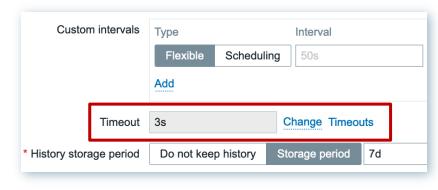


Centralized management of ITEM timeouts









Global

Proxy

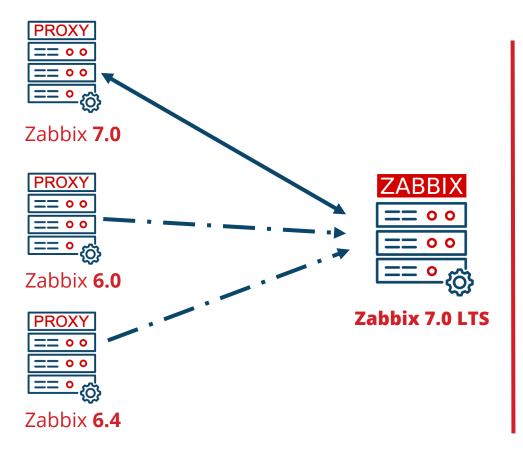
Item

Global, proxy, and item-level timeouts managed from Zabbix UI

More secure - no need to deal with *.conf



Zero-downtime upgrade of proxies





Zabbix 6.4:

Older proxies will continue to process data

Creates a longer time window for upgrade

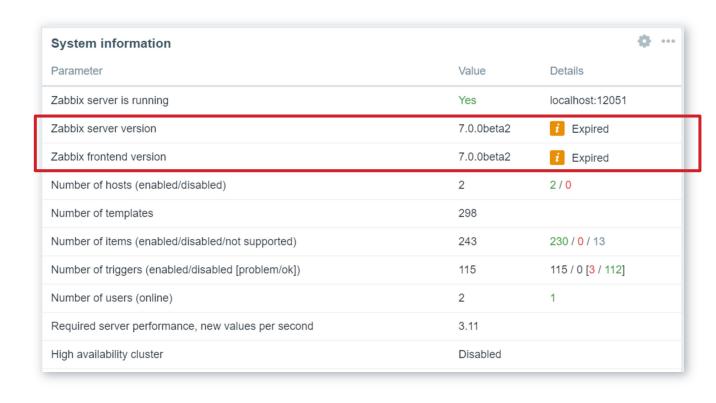
You can observe versions of your proxies in UI



Informing users about available upgrades

Support state

Available upgrades





Reducing operating costs

Network discovery

Auto-registration

Low-level discovery (LLD)

JIT user provisioning

and much more!

Reduce maintenance costs

Zero-downtime upgrade of proxies

Template versioning

Automatic up/down-scaling

Centralized management

A gentle learning curve, better UI/UX

Performance

Transition to threads

Perfect vertical and horizontal scalability

A more efficient history storage engine

Lower HW (CPU, memory, storage) requirements

Zabbix 8.0 LTS



Real-time data streaming

Connectors for real-time streaming of metrics and events



Zabbix 7.0 LTS Zabbix 8.0 LTS



Pushing metrics to Zabbix

Integrate your scripts and application with Zabbix





Python library zabbix_utils

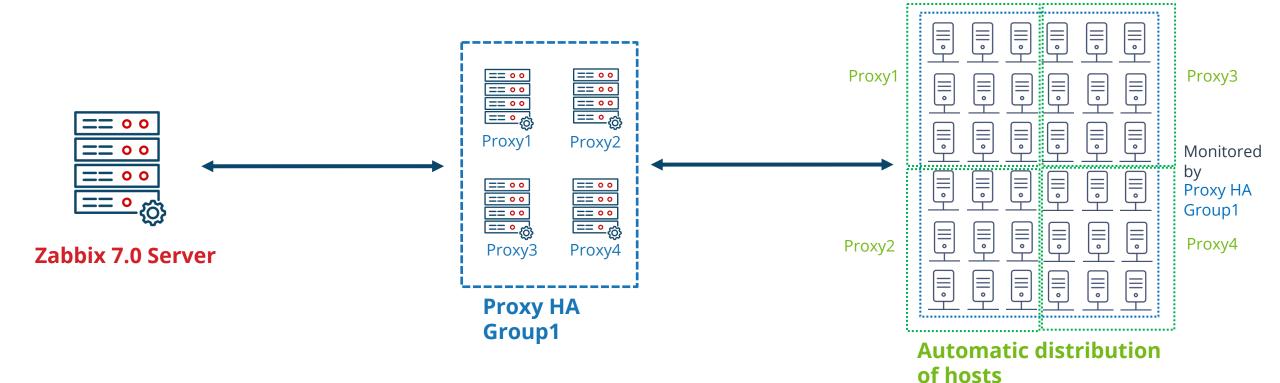
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pip install Zabbix_utils

```
# 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'])
```



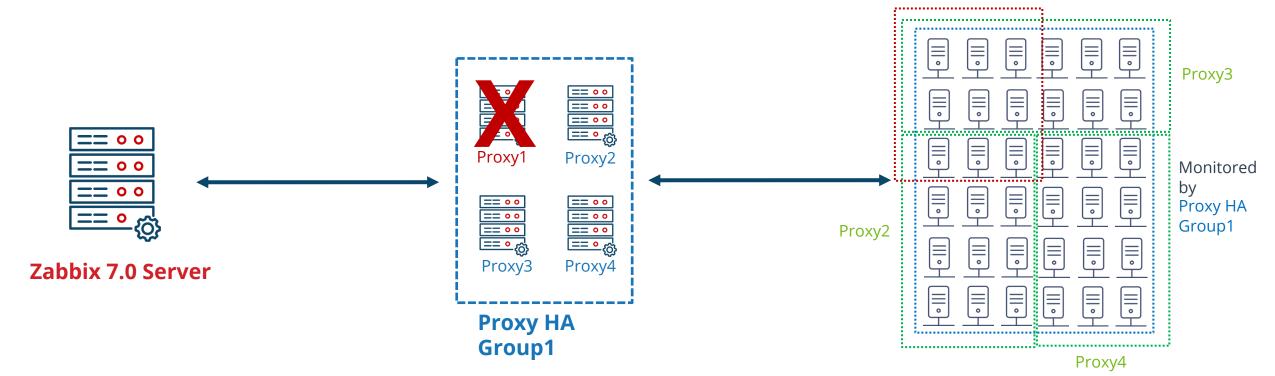
Proxy load balancing and HA





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Proxy load balancing and HA



High availability of proxies

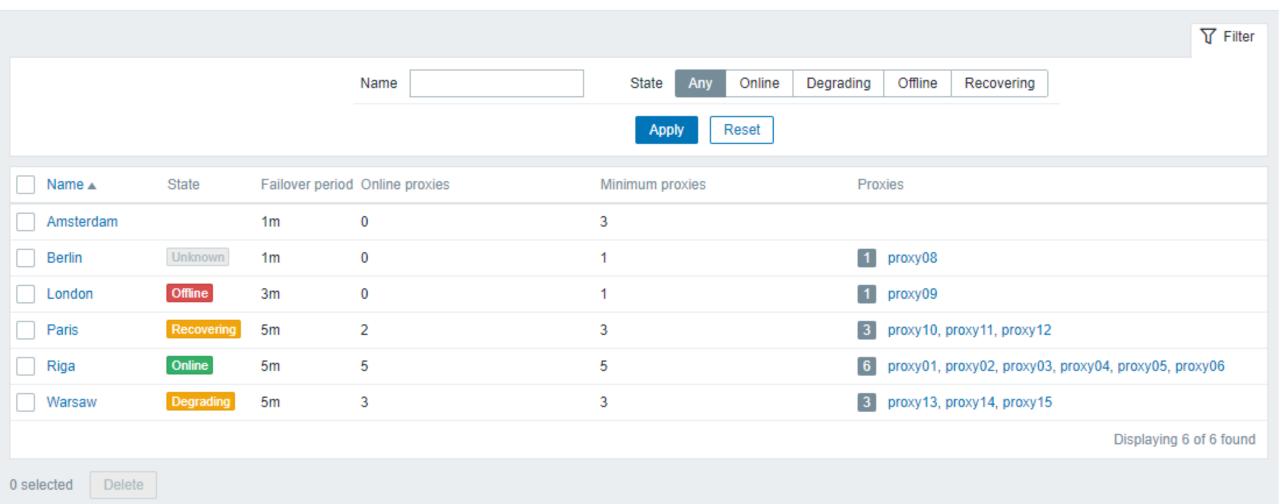
Load balancing: automatic distribution of hosts accross a group of proxies

Auto-scaling of proxies in a K8S environment



Proxy groups

? Create proxy group





Advanced DNS monitoring

net.dns.get

net.dns.perf

DNS and DNSSEC

response time

availability

DNS record details

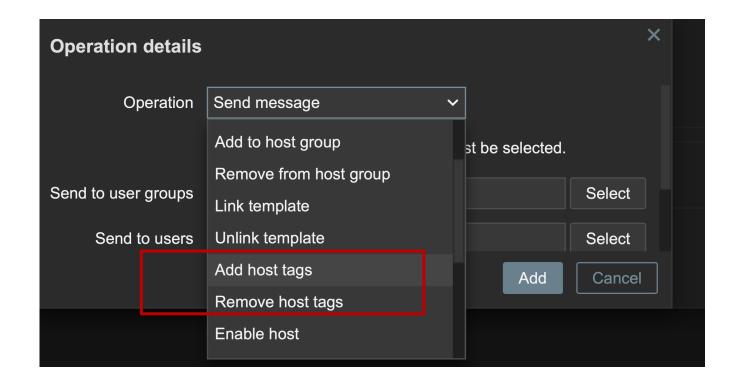
```
"answer_section": [
        "class": "IN",
        "name": "example.com.",
        "rdata": {
            "expire": 1209600,
            "mbox": "noc.dns.example.org.",
            "minttl": 3600,
            "ns": "ns.example.org.",
            "refresh": 7200,
            "retry": 3600,
            "serial": 2022091378
        "rdlength": 44,
        "ttl": 1205,
        "type": "SOA"
"flags": [
    "RA"
"query_time": "0.02",
```



Manage tags for discovered hosts

Different tags for different:

- services
- networks
- devices classes

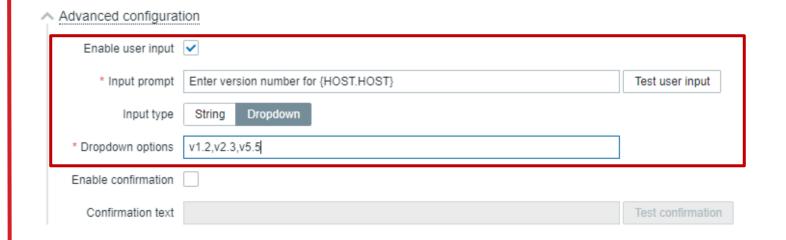




User input for scripts

Asking user for options:

- select operation
- select additional parameters
- enter a string(regexp validated)





Other notable enhancements

[ZBXNEXT-8702] Host groups created by LLD can be shared
[ZBXNEXT-5120] Support of macro functions for all user & built-in macros
[ZBXNEXT-8735] Filtering by value type and configurable retries for connectors

[ZBXNEXT-5380] New action "Add/remove host tag" for discovery and auto-reg actions

[ZBXNEXT-8760] Configurable media types for users provisioned by JIT

+ much more!

Check Release Notes for much more new features!

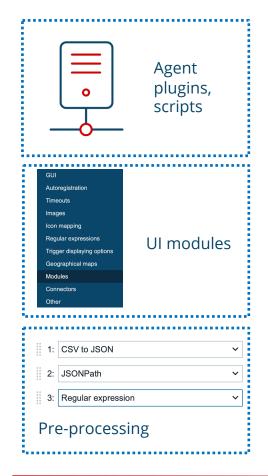


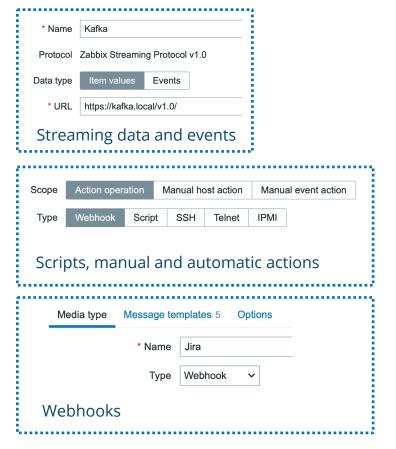
Extremely adaptable

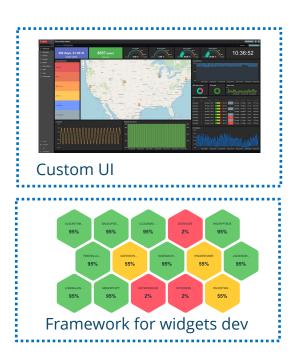
Solution for any use case

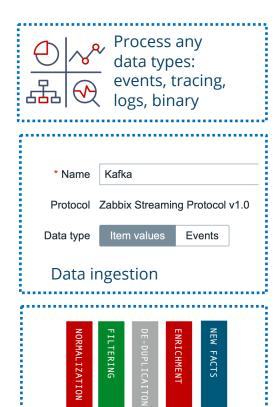


More ways to adapt and extend









EVENT CORRELATION ENGINE

Zabbix 7.0 LTS Zabbix 8.0 LTS



7.0 LTS

7.X

8.0 LTS

Dynamic dashboards

Data publishing

Next-generation visualization

Synthetic WEB monitoring

Proxy load balancing

Advanced event correlation

OpenTelemetry and tracing

Streaming data

Custom inventory

Custom UI

Ultimate observability platform

APM and compliance monitoring

Event and Log management

Management functions

ZABBIX 7.0

THANK YOU!

Alexei Vladishev Founder, CEO

