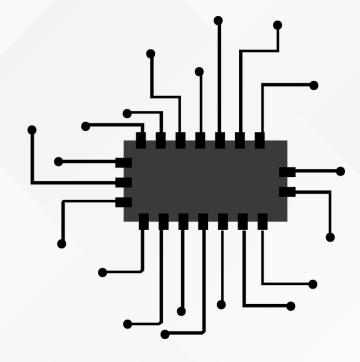
ZABBIX Product and feature overview



Who am I?



Nathan Liefting
Zabbix Consultant / Trainer

WHY MONITOR?

- Prevent downtime
- Make big IT environments transparent & easy to manage
- Collect and visualize real-time data, analyze and make trend-predictions
- Enable better planning & purchasing

WHAT 1 MINUTE OF DOWNTIME COSTS:

AIRLINES

Delays

\$65



DATA CENTERS

Unplanned outages

\$8.651



AUTO INDUSTRY

Unexpected stoppages

\$22.000



19 YEARS OF EXPERIENCE

300.000+
INSTALLATIONS
WORLDWIDE

100%
OPEN-SOURCE

USER INTERFACE IN 15 LANGUAGES

INTEGRATE WITH ANY SOLUTION

24x7
TECHNICAL
SUPPORT

VISUALIZE FOR BETTER ANALYSIS

MONITOR OVER
100 000 DEVICES

10 000 000 METRICS ENCRYPT
CONNECTIONS
BETWEEN ZABBIX
COMPONENTS



BASIC ARCHITECTURE

HOST

Anything you wish to monitor:

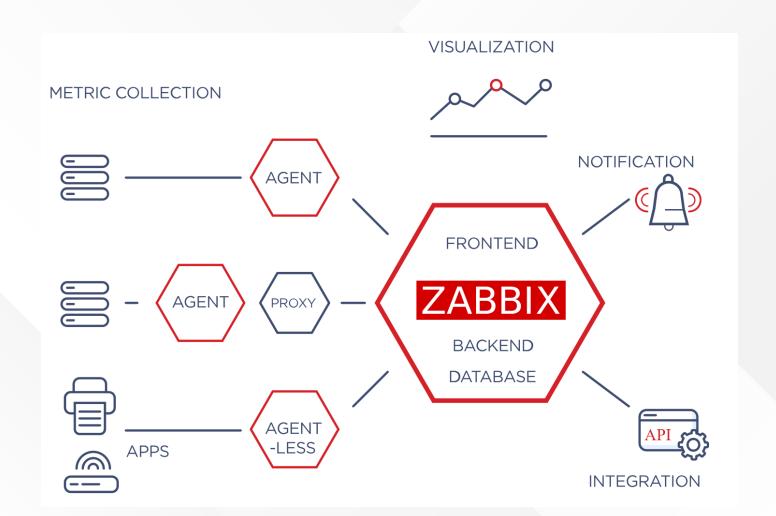
- Server
- Switch
- **UPS**
- **Application**
- Database
- Website, etc.

AGENT

Monitoring of devices, resources and applications.

PROXY

Monitoring of distributed locations.



BASIC ARCHITECTURE

SERVER

- Data collection
- Calculating Triggers
- Creating Events
- Notification

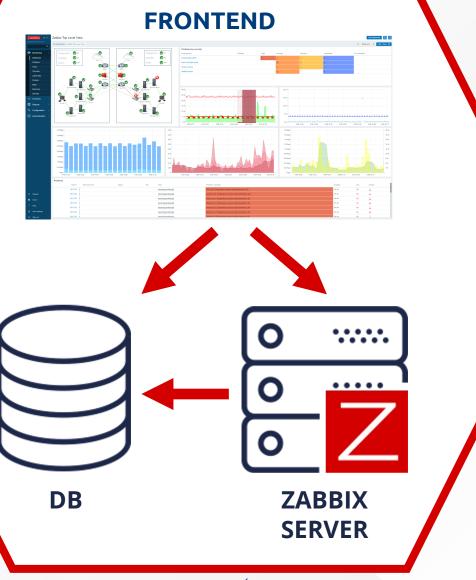
FRONTEND

- Visualization
- Configuration management

DATABASE

Data storage

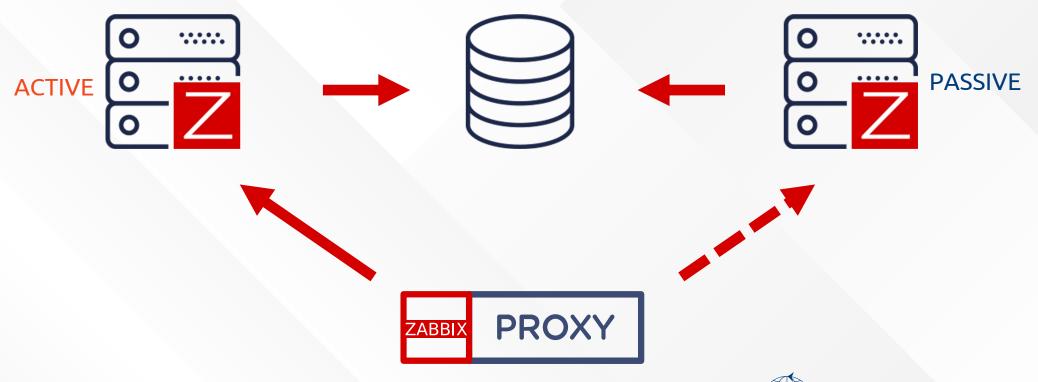




ADVANCED ARCHITECTURE

- Keep Zabbix running even when there is an issue
- Database is the single source of truth
- HA support on the PROXY/AGENT

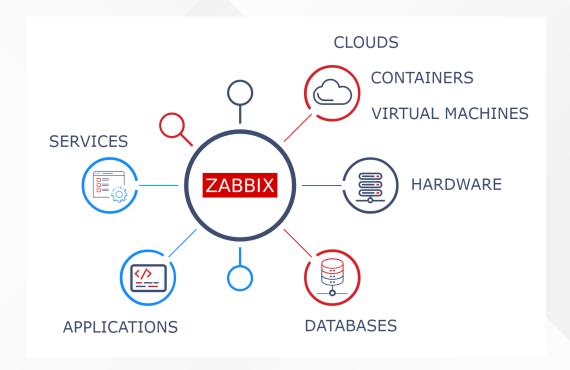
- BUILT-IN functionality for Zabbix server
- Use industry standard tools for frontend/database
- Easy to built and extend



DATA COLLECTION

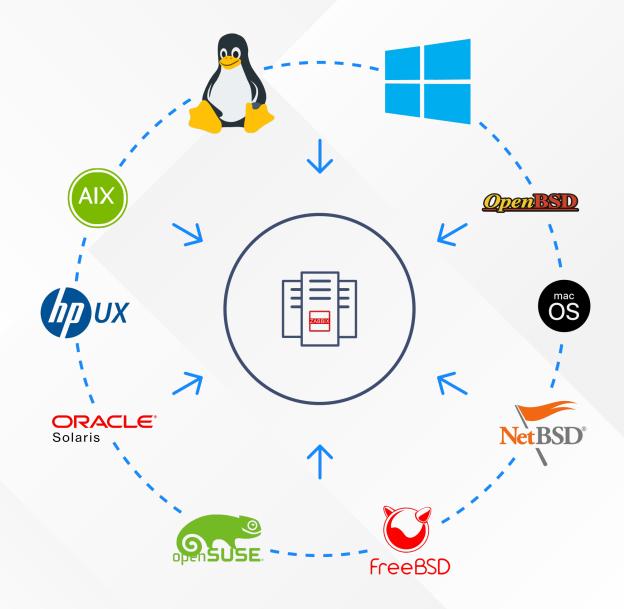
WHAT KIND OF DATA CAN BE COLLECTED

- **Services**: availability and the responsiveness of e-mail or web servers;
- **Network devices**: network utilization, CPU, memory and port status;
- **Virtual machines**: VMware vCenter and vSphere installations for various VMware hypervisor and virtual machine properties and statistics
- **Databases:** monitor in great detail any database, including MySQL, PostgreSQL, Oracle and Microsoft SQL Server;
- Java Application Server: monitor JBoss, Tomcat, Oracle Application Server or any other application with the efficient Zabbix Java gateway;
- Web services: easily monitor availability, response time and download speed of your external website, e-commerce portal or internal wiki and service desk system;
- **Hardware**: gather statistics such as temperature, fan speed voltage, and disk state.
- Customized monitoring: integrate ZABBIX in any environment and gather data from financial systems, environment control systems or even sophisticated research devices.



ZABBIX AGENT

- Negligible performance overhead
- Push or pull data delivery
- Easy to extend with plugins or external scripts
- Backwards compatibility for effortless upgrades
- Access to Windows WMI and performance counters
- Strong TLS or shared key encryption for communications
- Deploy Zabbix agent as a package, use MSI or command line installer on Windows or deploy pre-compiled agent binaries

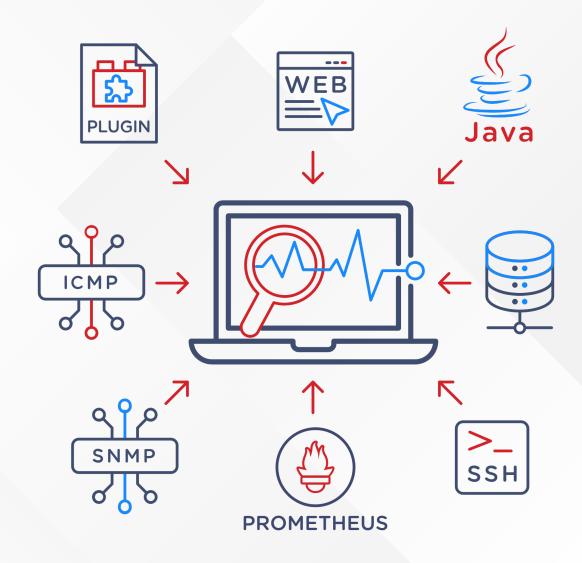


AGENT-LESS MONITORING

- SNMP (v1/2c/3) polling and trapping
- IPMI
- ICMP and TCP checks
- ODBC database monitoring
- Website performance / functionality
- HTTP data collection
- SSH/Telnet checks
- Easy to extend using scripts and/or plugins

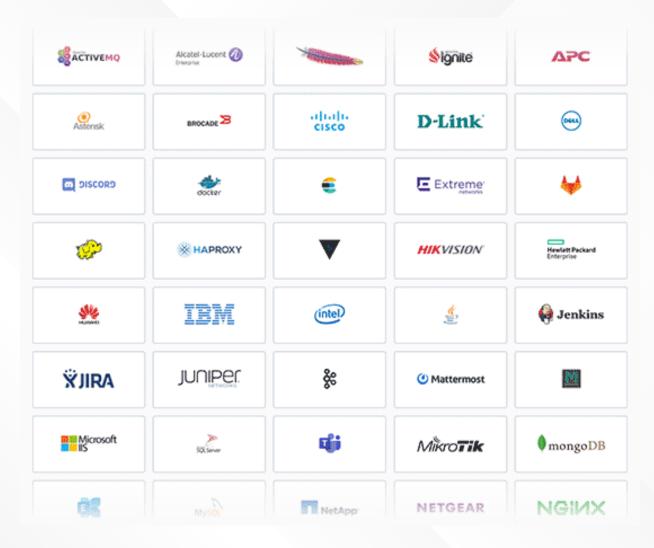
oicts.com

Prometheus monitoring

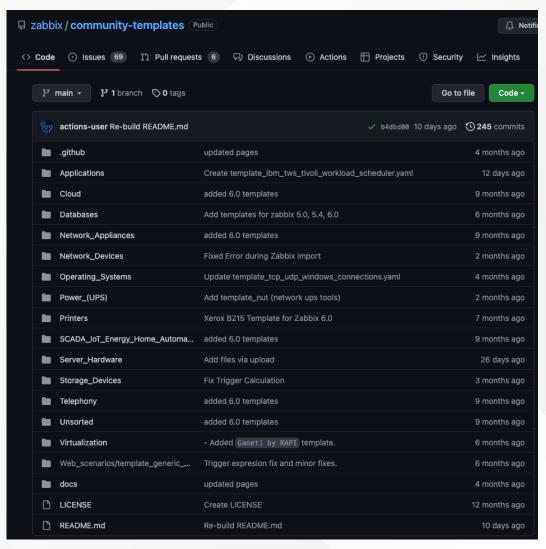




BUILT IT YOURSELF OR JUST START



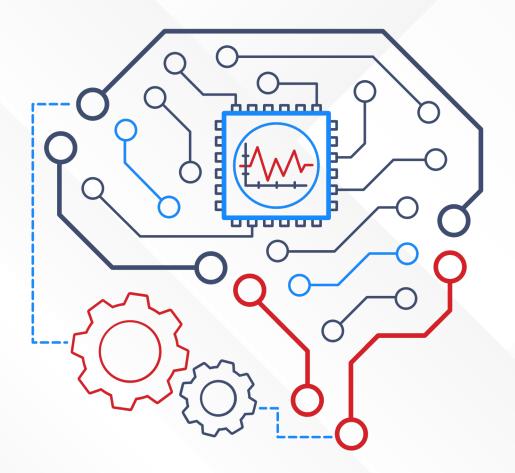
ZABBIX.COM/INTEGRATIONS



GITHUB.COM/ZABBIX/COMMUNITY-TEMPLATES

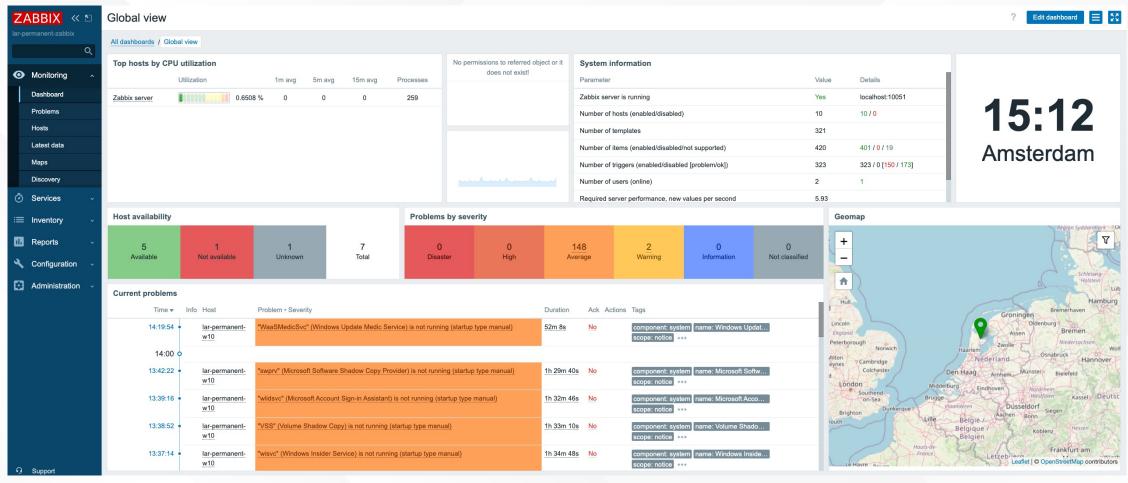


DETECT PROBLEMS HOW YOU WANT



- Real time detection
- Define your own thresholds with expressions
- Easy to understand and setup
- Override mass thresholds on various hosts with macros
- Detect anomalies
- Predict trends
- Flexible thresholds using baseline monitoring
- And many customization options...

TIME TO SHOW THE DATA

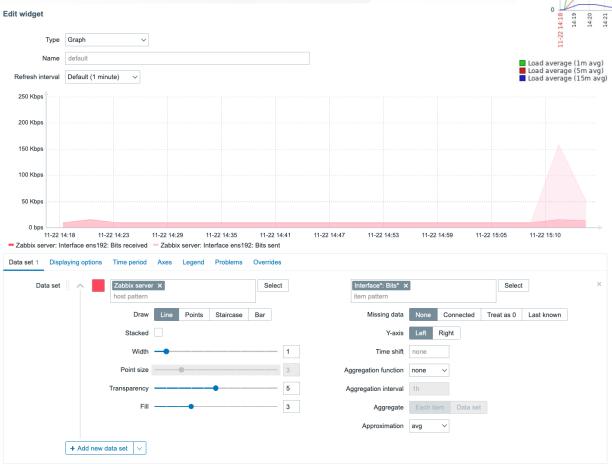


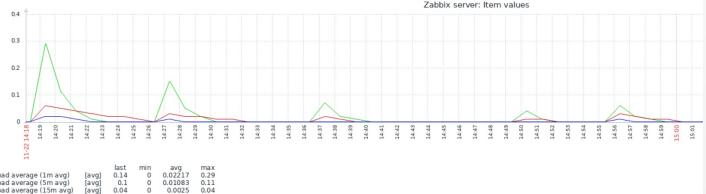
- Fully customizable dashboards
- Filter using host groups, tags and more

- Zabbix 6.4: New Zabbix widget framework
- More than 20 widgets

TIME TO SHOW THE DATA

DASHBOARD GRAPHS





AD-HOC GRAPHS

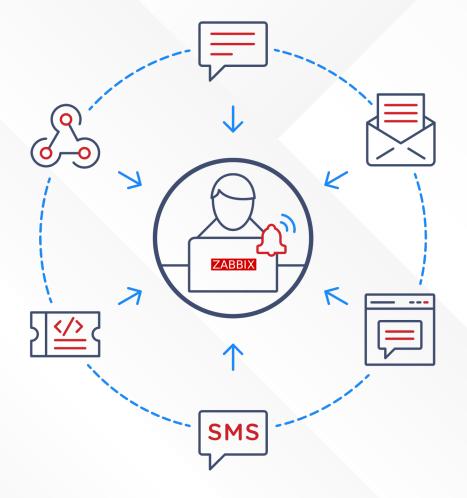
Zabbix server 127.0.0.1:10050 Latest data 125 Graphs 25

TEMPLATED GRAPHS



Apply Cancel

GET USEFUL ALERTS



- Define your own action conditions
 - Filter on tags, host groups, severities and more
- Define your own actions operations
 - Escalate, delay, repeat
- Customize severities
- Show only what you need in the frontend

• Or.. Let Zabbix solve the problem for you with remote commands



GET USEFUL ALERTS











Statuspage





servicenow





28 November 2022





MORE TO COME - ROADMAP

Zabbix 7.0 LTS

Planned release date: Q2 2023

High availability, performance and scalability

Scalable history storage

It will include standard API for storage of history and trend data as well as support of new time-series storage engines.

ZBXNEXT-714 * Top voted!

• Proxies to provide automatic load balancing and HA

ZBXNEXT-5911 ★ Top voted!

Out of the box monitoring and alerting

• Security and compliance monitoring

enable multi-DC monitoring scenario

Distributed monitoring

28 November 2022

• One dashboard for multiple data sources

Ability to display data from multiple Zabbix servers on a single dashboard to

Zabbix 7.2

Planned release date: Q4 2023

Cloud native

 New architecture for horizontal scalability, performance and HA

★ Top voted!

APM monitoring

- New set of widgets aimed to APM visualization
- Bindings for various programming languages (Java, Python, PHP, etc)
- Extend Zabbix to enable APM functionality and tracing ZBXNEXT-5812, ZBXNEXT-7617

https://www.zabbix.com/roadmap



Questions?

