

DEMO







ZABBIX is an open source enterprise-level monitoring solution designed to monitor millions of metrics in real time, collected from tens of thousands of servers, virtual machines, network devices and applications





Over 300 000+ installation worldwide.

ZABBIX is trusted by customers all over the globe.

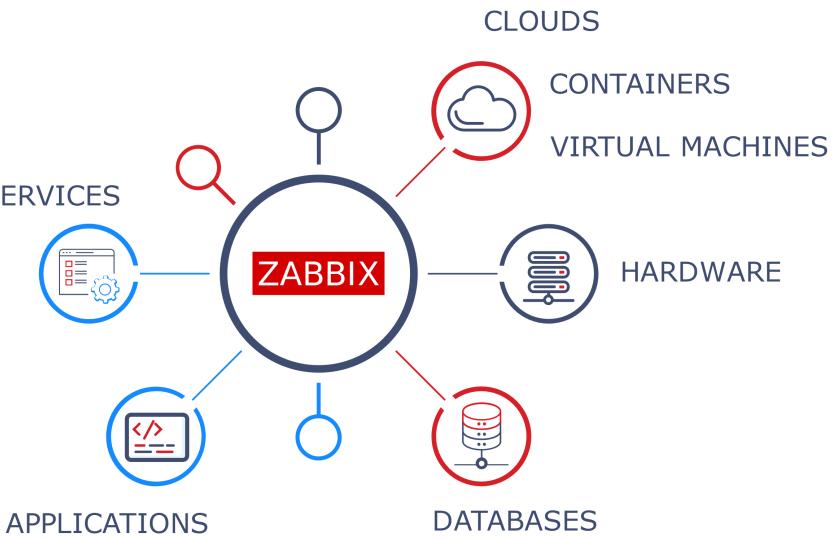


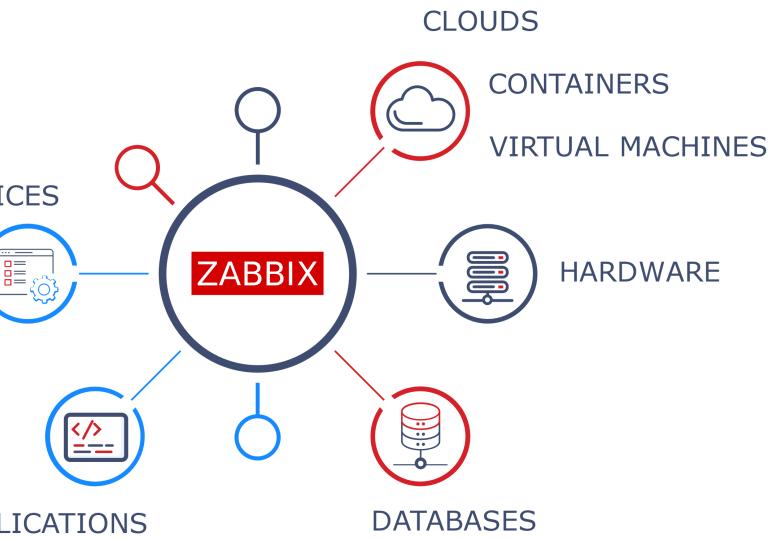
WHAT TO MONITOR?

SOLUTIONS FOR DIFFERENT INDUSTRIES, APPLICATION AREAS AND USE CASES

- Access control: Monitor changes in room temperature, use \bigcirc of access cards and other sensors and logs.
- **KPI monitoring:** Use collected metrics to create dashboards \bigcirc for your business KPI monitoring: number of web visitors, number of purchases, amount of devices manufactured per hour, etc.
- **Capacity monitoring:** Monitor your infrastructure resource \bigcirc utilization and let Zabbix help you plan your IT budget accordingly.
- **Configuration monitoring:** Use Zabbix to enable monitoring \oslash of software versions, keep track of installed applications and updates
- **Inventory monitoring:** Utilize Zabbix to manage the \bigotimes inventory of your devices - hardware, software serial numbers and much more!
- Security monitoring: Monitor security risks by monitoring \oslash network ports, malicious software, password files and other security entities.









BASIC ARCHITECTURE

ZABBIX SERVER BACKEND

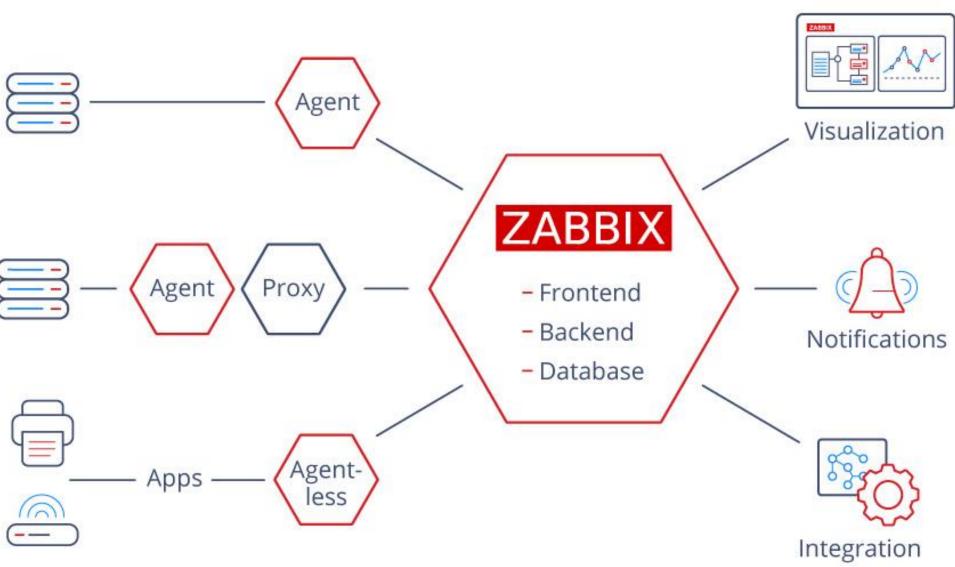
- Core process responsible for data collection and analysis
- Can be deployed on Linux, BSD, Raspbian and other Unix-like operating systems
- Native Zabbix server high availability cluster

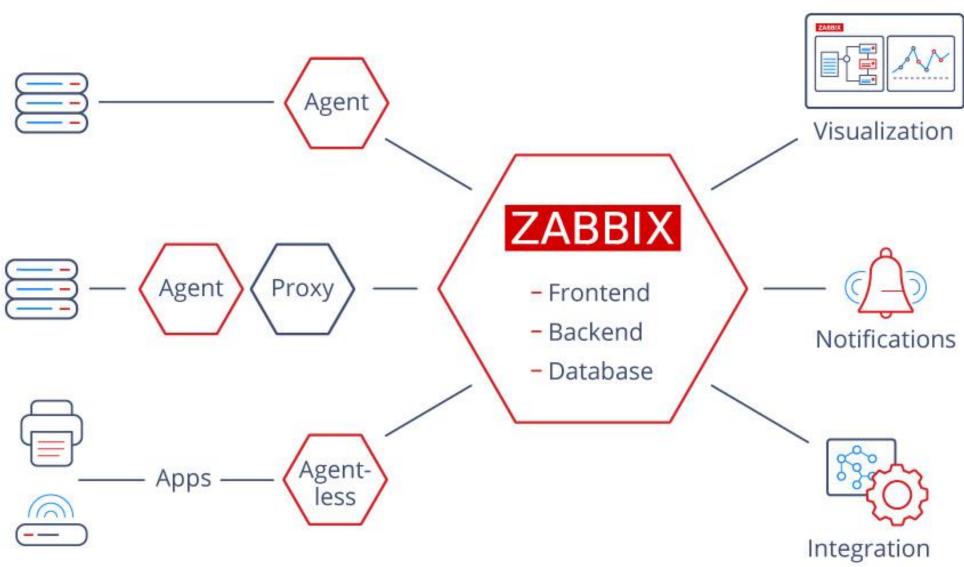
DATABASE

- Data and configuration storage
- MySQL and Community forks
- PostgreSQL + TimescaleDB
- Oracle

FRONTEND

• PHP frontend for configuration management and data visualization.



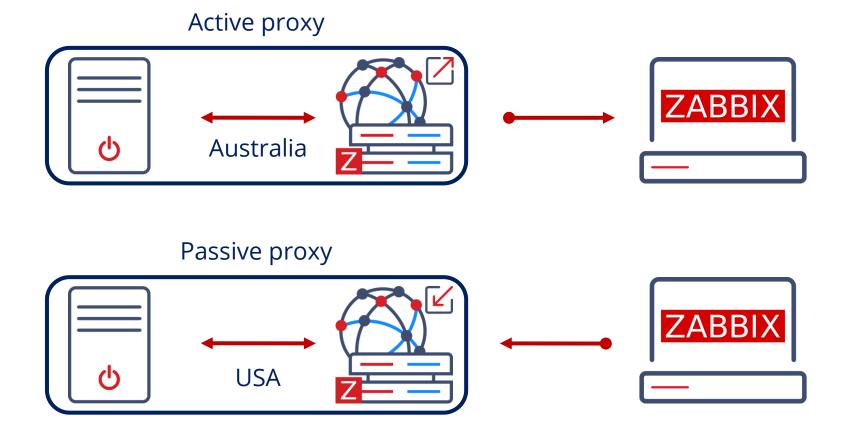




DISTRIBUTED MONITORING

Deploy Zabbix proxies in remote sites for added redundancy and ease of configuration

- Select the direction of communication between Zabbix server and Zabbix proxies \bigcirc
- Zabbix supports unlimited number of proxies \oslash
- Scale up your monitoring by adding extra Zabbix proxies to your environment \oslash

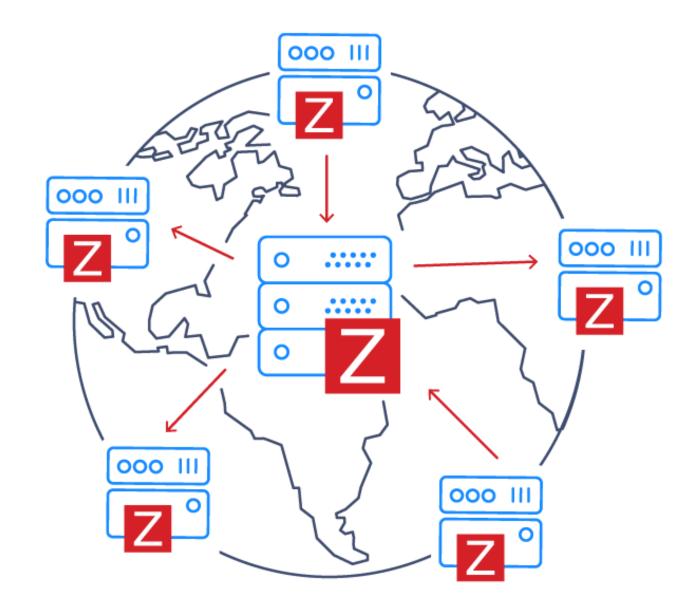




DISTRIBUTED MONITORING

Collect data from thousands of monitored devices:

- O Data compression
- Monitor behind the firewall, DMZ
- Collect data even in case of network issues
- Remotely run custom scripts on monitored hosts
- Control all Zabbix proxies from a single pane of glass

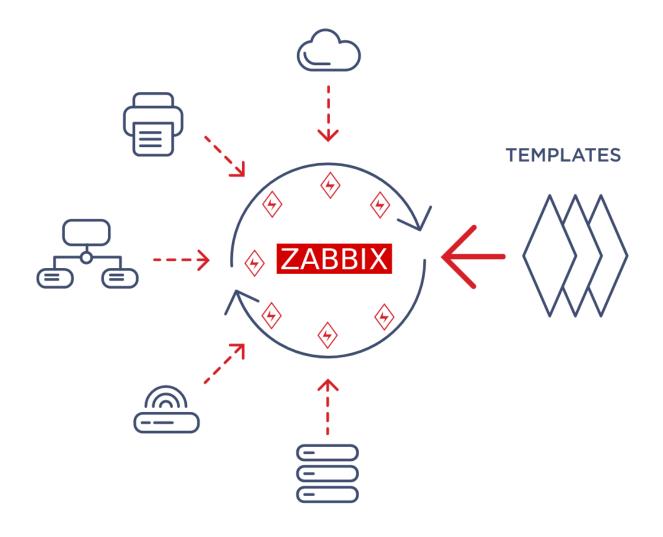




EFFORTLESS DEPLOYMENT

SAVE YOUR TIME:

- Install Zabbix in minutes
- Use out-of-the-box templates for most of the popular platforms
- Automatically discover and create your hosts in Zabbix
- Deploy any Zabbix component by using packages, docker containers, cloud images or compile it from the source code.
- Receive Zabbix alerts by using out-of-the box media type integrations





DISCOVERY RULES

TRIGGERS

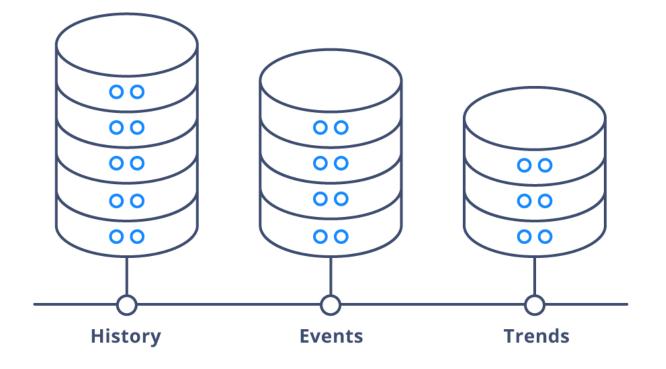
METRICS

DEPENDECIES



STAY IN CONTROL OF YOUR DATA

- All of the collected metrics, problem history, trends remain in your control \oslash
- In addition to collecting history, Zabbix provides the ability to store hourly trend \bigcirc data – **min, max, avg and count** of collected values per hour.
- Define flexible data storage periods for **History**, **Trends**, **Events** and other data \bigcirc
- None of the data or telemetry gets transferred to Zabbix or any other 3rd party \oslash

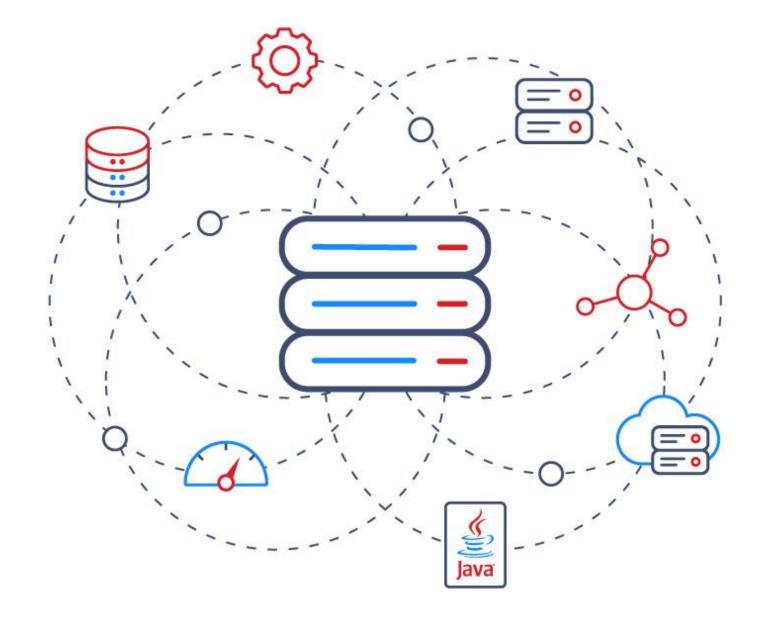


Example: Store 1 year of history, 6 months for events, 2 years for trends.



DATA COLLECTION: AGENTLESS

- Simple ping and port checks
- SNMP(v1, v2c, v3), HTTP, IPMI and SSH checks
- Database monitoring via ODBC
- Java applications monitoring
- O Custom metrics/scripts
- Aggregation and calculated checks
- ⊘ VMware monitoring
- ⊘ Web monitoring
- Synthetic monitoring



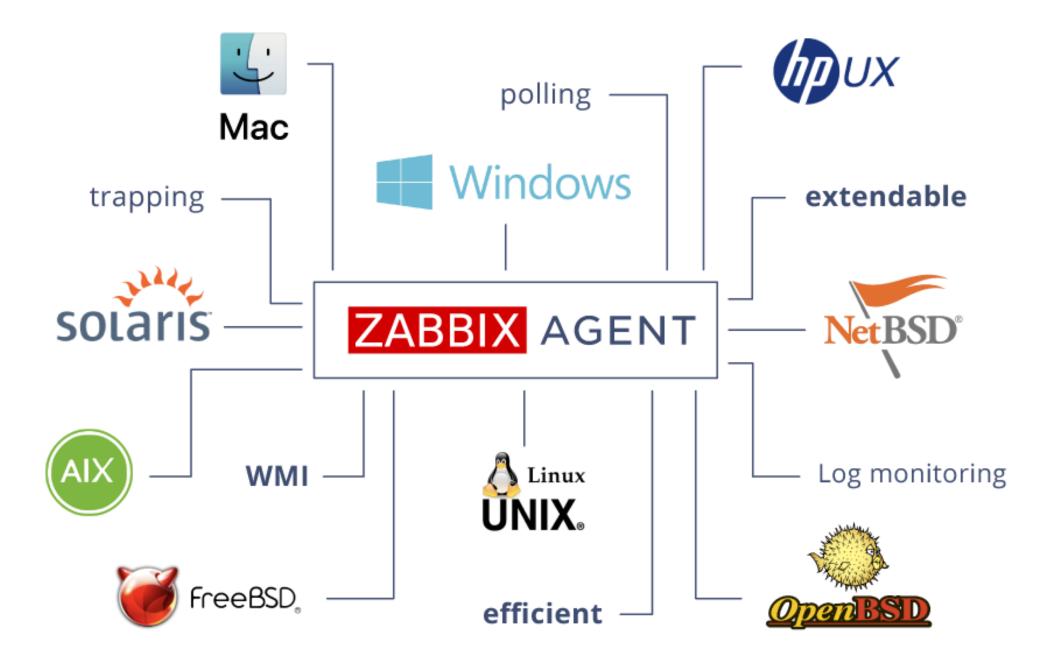


DATA COLLECTION: ZABBIX AGENT

Zabbix Agent can be deployed on any Unix-like or Windows platforms and collect metrics from any device or application.

Collect data from thousands of monitored devices:

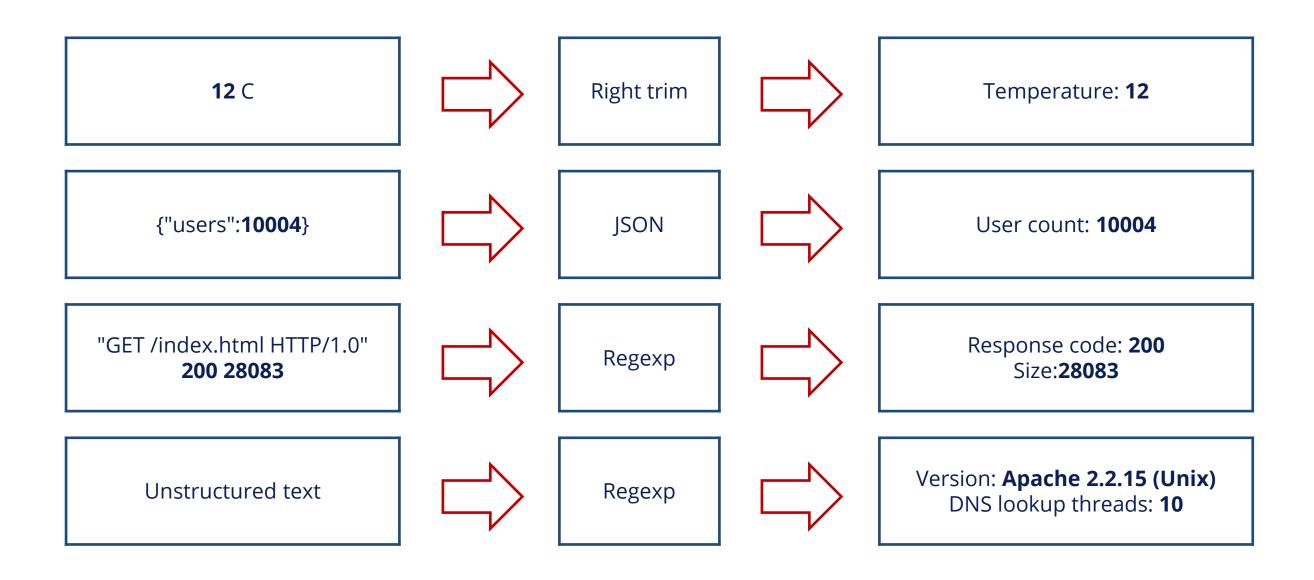
- Collect OS level performance and availability metrics
- Supports polling and sending traps
- Provides native log monitoring
- Create your own custom metrics





DATA COLLECTION: PREPROCESSING

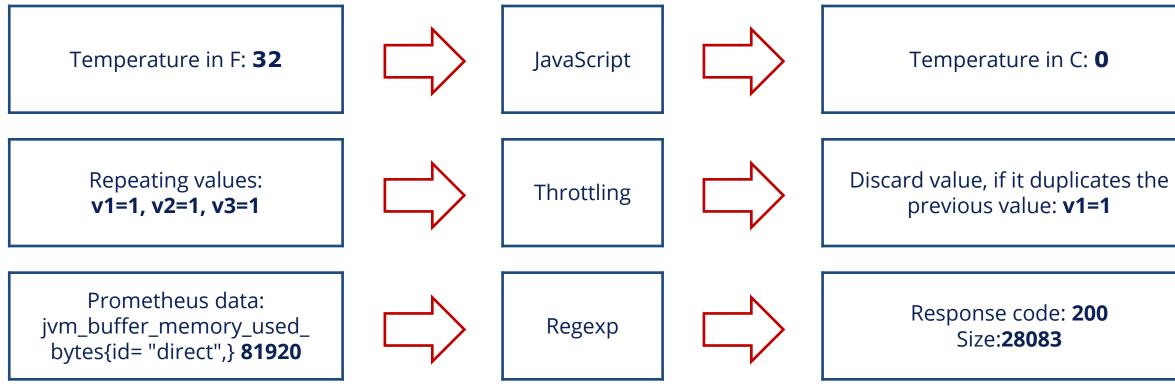
Zabbix offers a variety of approaches to transform the data before storing it in the database





DATA COLLECTION: PREPROCESSING

Zabbix offers a variety of approaches to transform the data before storing it in the database





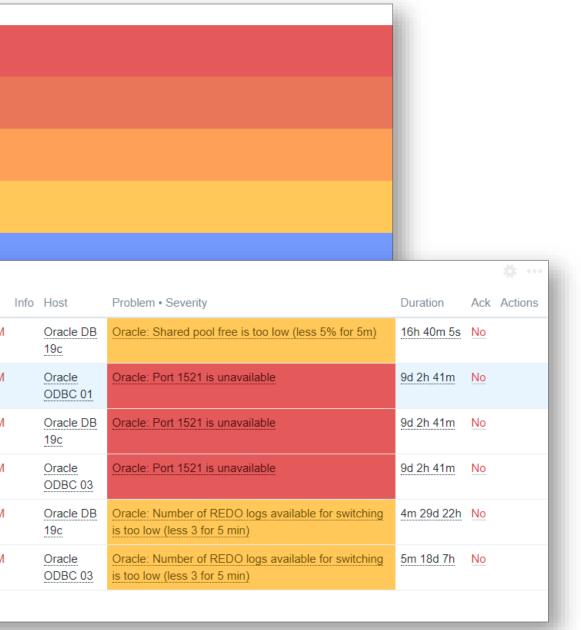
PROBLEM DETECTION

DETECT PROBLEMS FROM THE INCOMING DATA FLOW AUTOMATICALLY

- ⊘ Flexible problem definitions
- Multiple problem severity levels
- ⊘ Correlation/root cause analysis
- Anomaly detection
- ⊘ Baseline monitoring
- Obta trend analysis

Problems by severity			
<u>3</u> Disaster			
4 High			
26 Average			
23 Warning			
2 Information	Problems		
0 Not classified	Time ▼	Recovery time	Status
_	03:38:00		PROBLEM
	2021-04-27 17:36:39		PROBLEM
	2021-04-27 17:36:32		PROBLEM
	2021-04-27 17:36:31		PROBLEM
	2020-12-07 20:44:01		PROBLEM
	2020-11-19 11:39:00		PROBLEM





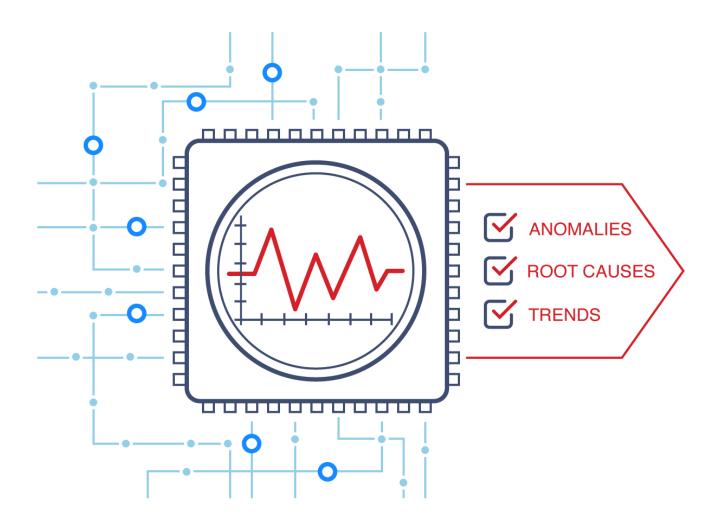
PROBLEM DETECTION

USE TREND PREDICTION TO REACT PROACTIVELY AND PREVENT THE IMPACT OF THE PROBLEM.

What is the value of the data item after a certain time?
 Example: how much free space will there be on the server in a week's time?

When will the value of the data item approach the threshold?

Example: when will the server reach less than 1GB of free space?

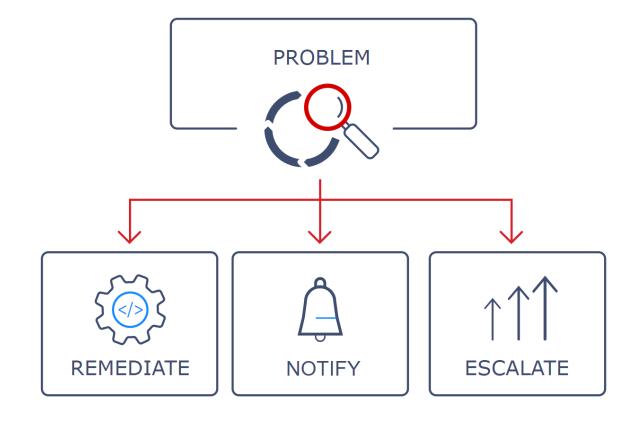




ALERTING & NOTIFICATIONS

GET NOTIFIED IN CASE OF ANY ISSUES USING DIFFERENT CHANNELS:

- Send messages via E-mail, SMS, Webhooks
- Remediate issues automatically by executing commands/scripts on agent or core server
- Escalate problems according to flexible user-defined
 Service Levels
- Customize messages based on recipient's role
- Customize messages with runtime and inventory information





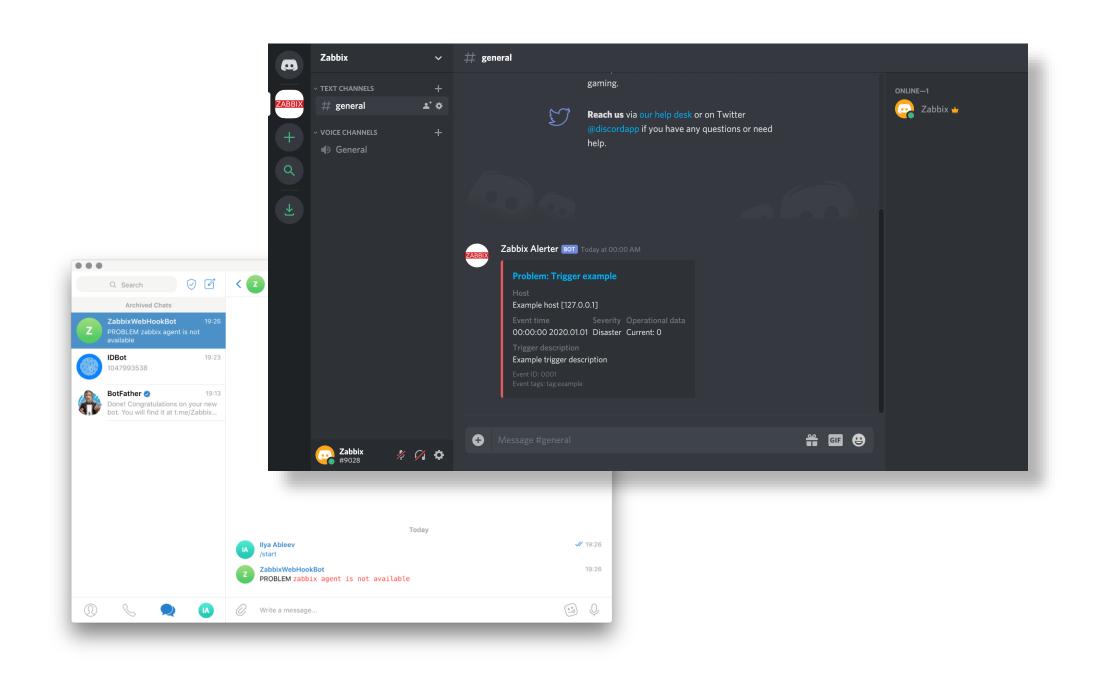
ITSM AND MESSAGING SYSTEM INTEGRATIONS

- JavaScript webhooks are open for customization and sharing
- Vast selection of official integrations with the option to import custom community integrations
- Out of the box integrations for solutions such as Jira ServiceDesk, Slack, Opsgenie and many more.







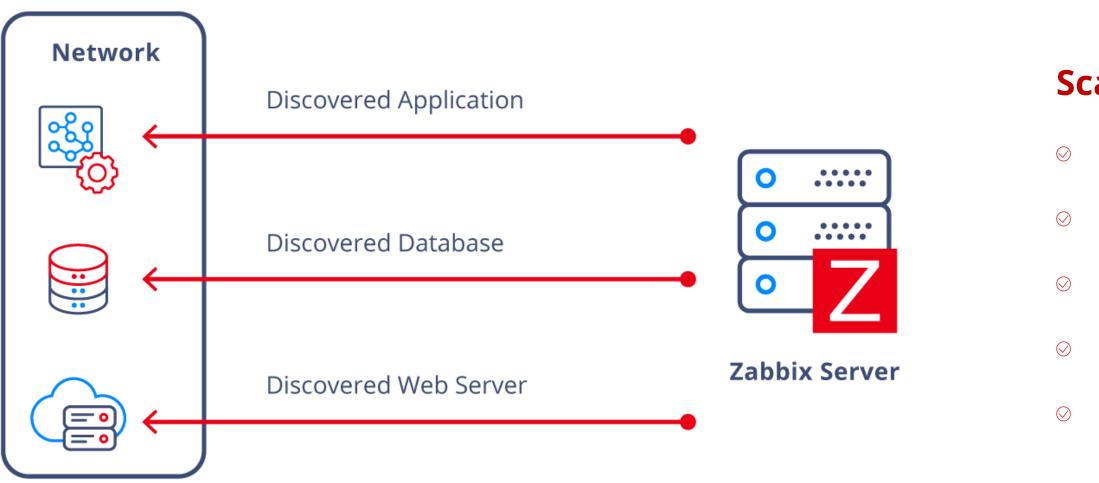




HOST DISCOVERY

NETWORK DISCOVERY:

periodically scans the network to detect changes and performs user specified actions.





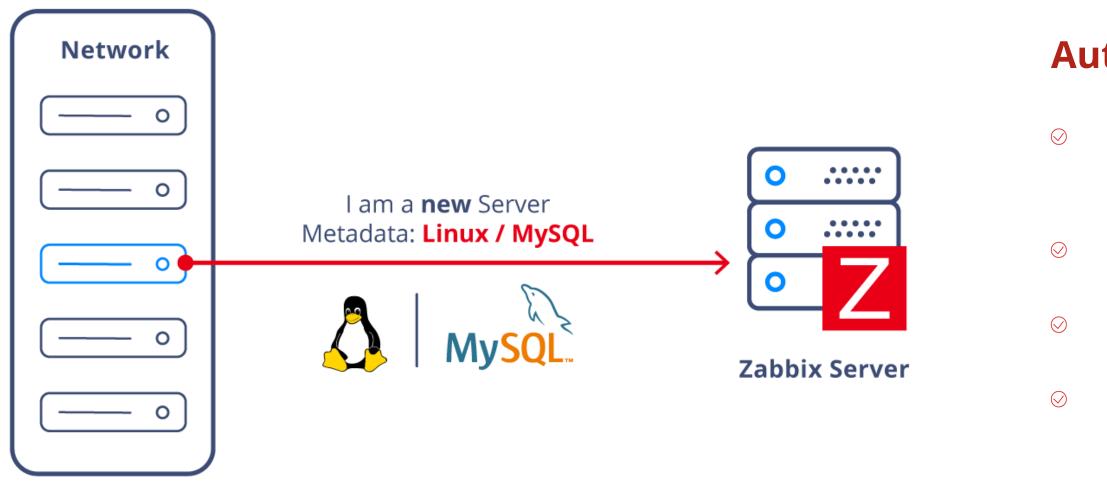
Scan network for new hosts

- Create a new host in Zabbix
- Assign host to a host group
- Assign the corresponding templates
- Notify a user
- Execute a script

HOST DISCOVERY

AGENT AUTO-REGISTRATION:

configure automated monitoring of new equipment with Zabbix agents installed. Newly deployed agents will send their metadata to the Zabbix server and an autoregistration request will be received.



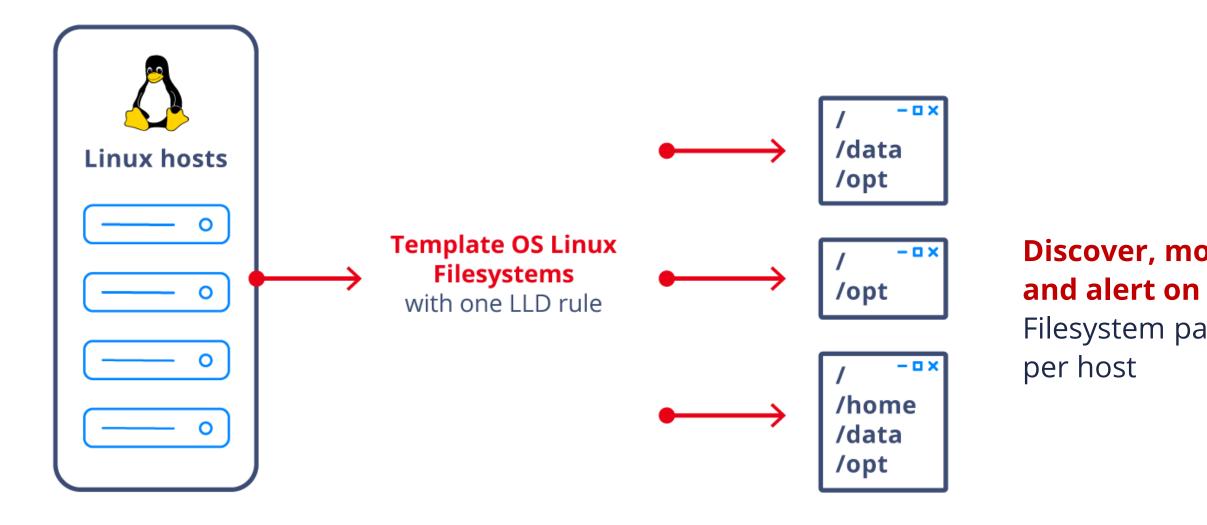


Automate host creation - example

- New MySQL hosts created and linked to Linux/MySQL templates
- Assign a host to the DB server host group
- Notify the DB admin
- Execute an onboarding script on the host

LOW LEVEL DISCOVERY

Let Zabbix automatically create items, triggers and graphs on your hosts, depending on the host entities



ZABBIX 6.0



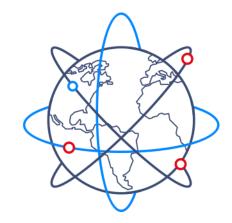
Discover, monitor Filesystem partitions

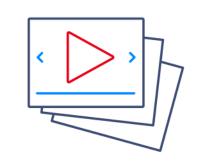
DATA VISUALIZATION

PRESENT YOUR IT ENVIRONMENT ON WEB INTERFACE USING:









Widget-based dashboards

Graphs

Network maps

Slideshows



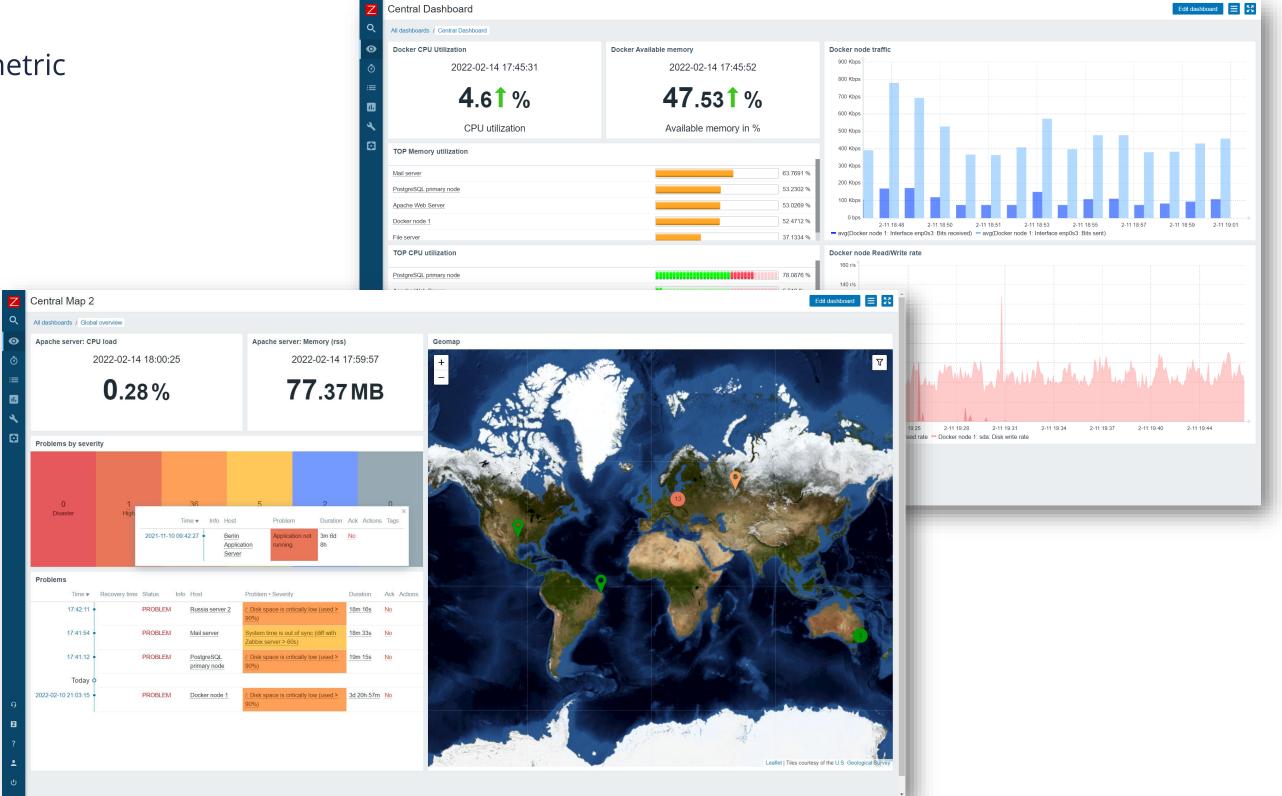
Scheduled reports



VISUALIZATION: DASHBOARDS

Zabbix Dashboard is a central place in the web frontend that provides personalized details about the monitored environment:

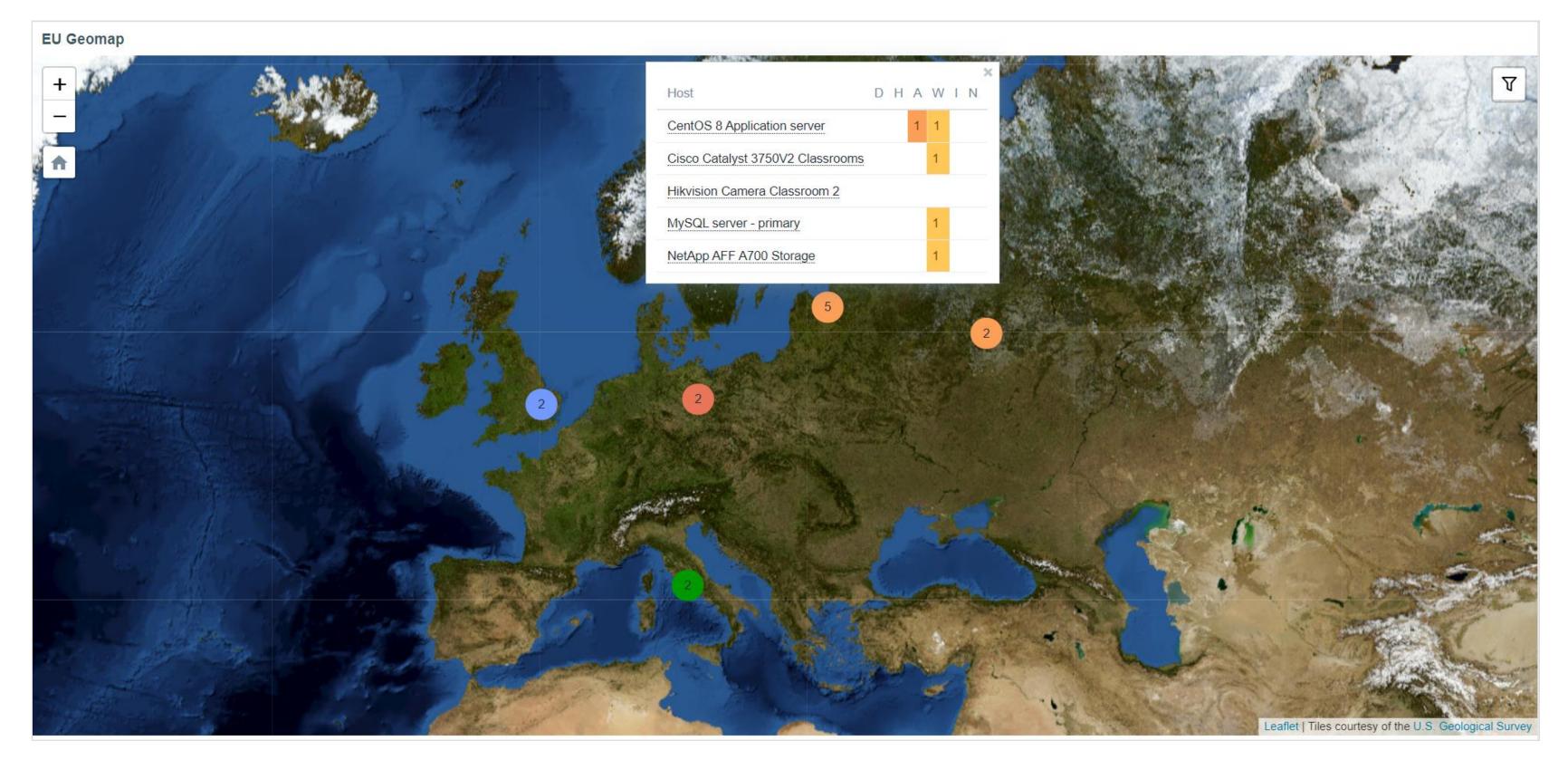
- Top or bottom hosts sorted by metric
- ⊘ Item values
- ⊘ Network and geographical maps
- ⊘ Graphs
- ⊘ Problem lists
- ⊘ Host status
- Status of Zabbix server
- ⊘ SLA reports





VISUALIZATION: GEOMAPS

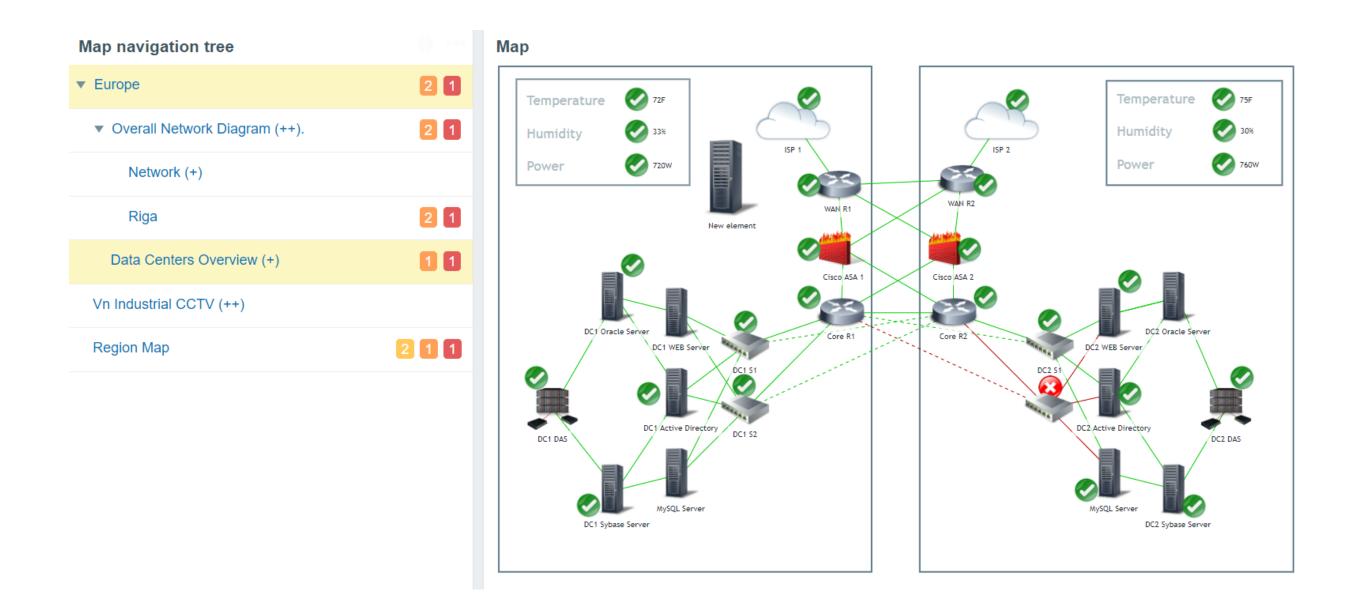
Zabbix geomaps enable Zabbix administrators to view the state of their infrastructure displayed on a geographical map.





VISUALIZATION: NETWORK MAPS

Create an **interactive** overview of your environment on multiple levels by using **nested** maps. Zabbix maps are capable of **displaying real-time status and values** received by your monitored entities.





VISUALIZATION: REPORTS

SCHEDULE AN E-MAIL REPORT BASED ON ANY OF YOUR EXISTING DASHBOARDS

\bigotimes	Daily/Weekly/Monthly/Yearly reports	\bigcirc	Send reports to
\bigotimes	Select the period for which the data should be provided in the report – previous Day/Week/Month/Year	\bigotimes	Send reports wi creator permiss
		\bigcirc	Customize rend

Name 🔺	Owner	Repeats	Period	Last sent
Customer ABC management report	Lars	Monthly	Previous month	2021-07-01 09:00
Customer ABC report	Lars	Weekly	Previous week	2021-07-30 17:00
Customer XYZ management report	Melanie	Daily	Previous month	2021-07-01 09:00
Customer XYZ report	Melanie	Weekly	Previous week	2021-07-30 14:00
Daily network report	Admin (Zabbix Administrator)	Daily	Previous day	2021-07-30 09:00
NOC team report	Admin (Zabbix Administrator)	Daily	Previous day	2021-07-30 09:00



individual users or members of a user group

vith either the report recipient or report sions

O Customize report message and subject

BUSINESS SERVICE MONITORING

With Zabbix you can monitor your business services and receive alerts about business service status change, receive root cause analysis and monitor business service SLAs.

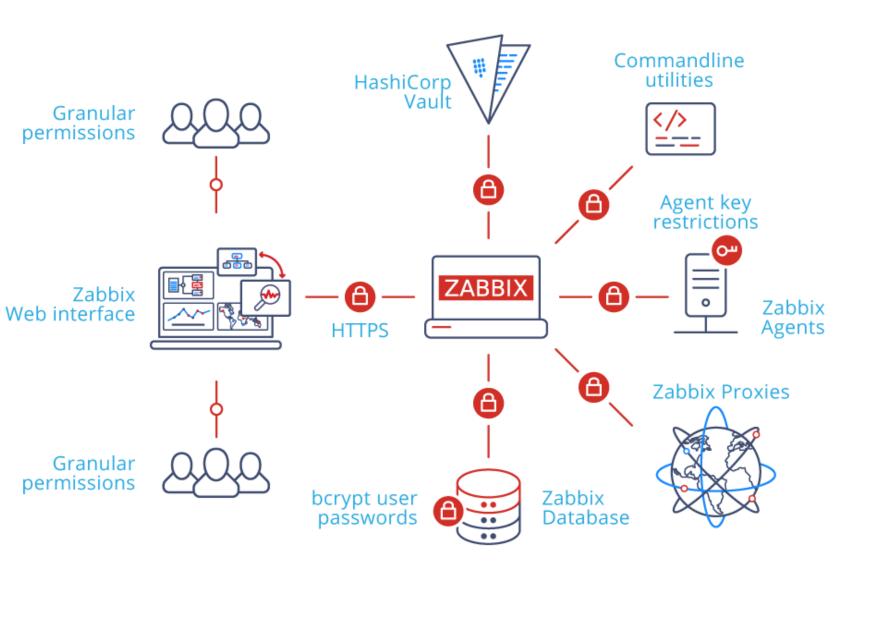
Ζ	Services				Create se	ervice	View Edit
Q	All services / Online store					Info 🛈	Filter 🍸
\odot	Online store						_
Ō	Parent services: Status: High						
≔	SLA: Customer website: 99.4007						
	Tags: Application: Store Customer: Local Merc						
٩	Name	Status	Root cause	Created at	Tags		
S	Payment service provider	ОК		2022-01-27	Application: Payment		+∠×
	Primary database	ОК		2022-01-01	Application: Database		+
	Secondary database	ОК		2022-01-27	Application: Database		+
	Website	High	Web server is unavailable	2022-01-01	Application: Website		+ <u>~</u> ×
						Displayin	g 4 of 4 found
	0 selected Mass update Delete						



SECURITY

Protect your data

- Strong encryption between all Zabbix components
- ⊘ PSK and certificate encryption support
- ⊘ TLS v. 1.2 and 1.3 support
- Option to store all of your sensitive credentials in an external vault
- Multiple authentication methods: Open LDAP, Active Directory
- Solution Flexible user permission and role schema
- Full isolation between user groups and host groups for multi-tenant deployments
- Zabbix code is open for security audits



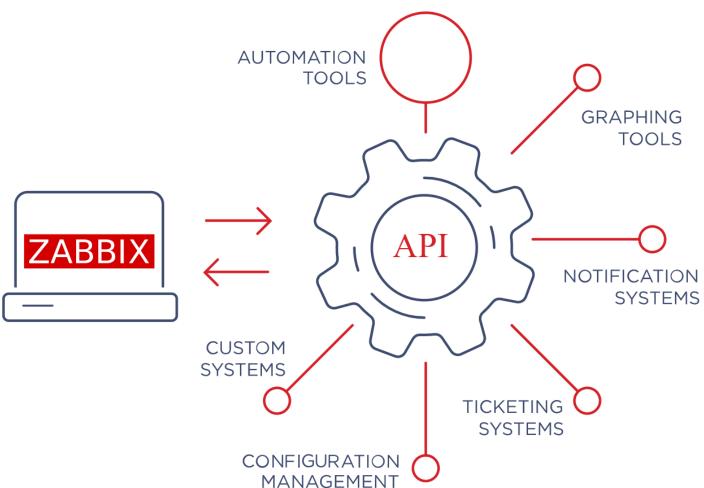


ZABBIX API

Integrate Zabbix with any part of your IT environment

Get access to all Zabbix functionality from external applications through Zabbix API:

- Uses JSON-RPC 2.0 protocol \bigcirc
- Requests and responses are encoded using \bigcirc JSON format
- Automate Zabbix management via API \bigcirc
- Integrate Zabbix with third party software: \bigcirc Configuration management, ticketing systems
- Retrieve and manage configuration and \bigotimes historical data





BACKED BY PROFESSIONAL SERVICES

Delivered by Zabbix or Zabbix official partners – regardless of time zone or your preferred language.



Anything from deployment or migration

to hands-on **Professional Training**

24/7 global technical support



and everything else Zabbix related



DOWNLOAD & GET STARTED IN 10 MINUTES



- Install and configure Zabbix \bigcirc server
- Configure Zabbix frontend \bigcirc
- Start using Zabbix \bigcirc

ZABBIX VERSION	OS DISTRIBUTION	OS VERSION	DATABASE
5.2	Red Hat Enterprise Linux	8	MySQL
5.0 LTS	CentOS	7	PostgreSG
4.0 LTS	Oracle Linux	6	
3.0 LTS	Ubuntu		
	Debian	_	
	SUSE Linux Enterprise		
	Server	_	
	Raspbian		



FOR DEEP CUSTOMIZATION

> Zabbix Sources

FOR AGENT DEPLOYMENT

> Zabbix Agents

		6
SE 🛛	WEB SERVER	
	Apache	
SQL	NGINX	

ZABBIX 6.0

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THANK YOU!



