

The monitoring solution for everyone

Alexei Vladishev, Founder and CEO of Zabbix



Happy to be back to **Brazil!**



Digital transformation journey

DIGITAL TRANSFORMATION CHALLENGES

Management of legacy and existing systems, mix of older and newer technologies and protocols

Transition to Hybrid Clouds, Microservices, K8S and OpenShift

Scalability and HA

New processes and methods: DevOps, AIOps

Security plays an increasingly important role

What makes **monitoring** challenging?

MONITORING CHALLENGES

Scalability and high availability

Growing number of devices, networks, increasing complexity

The Multiple Tools Problem

Missing Single Pane of glass

Lack of **centralized** visualisation and reporting

Pro-active problem resolution is critical

Cost effectiveness

Zabbix is an **Universal** Open Source
enterprise-level monitoring solution

All enterprise grade features at no cost!

COST EFFECTIVENESS

Exceptionally low TCO (Total Cost of Ownership)

Free and Open Source high quality product

Backed by reliable vendor, **partners** and commercial services

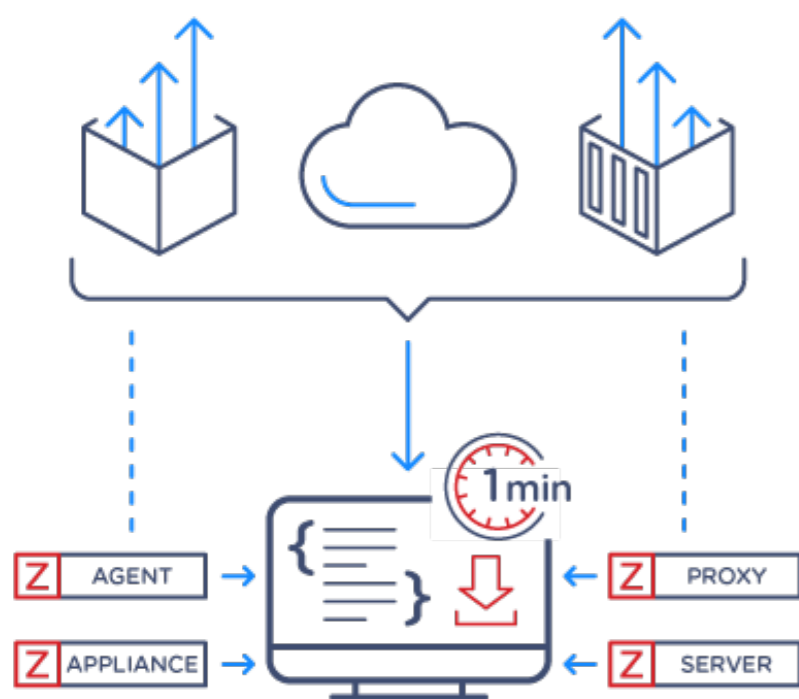
No limits, great scalability

Free access to all information: documentation, HOWTOs, community resources

Zabbix engineers are relatively easy to hire

Cost is fully under control: **fixed price** support agreements, trainings

550K+ of devices monitored by a single
Zabbix Sever + Proxies



Deploy anywhere

DEPLOY ON-PREMISE



DEPLOY IN THE CLOUD







































































































































Monitor **anything**

Legacy and modern systems, **ready** for the future

READY TO USE SOLUTIONS FOR MONITORING

 .NET	 1C:Предприятие	 Active Directory	 ActiveMQ	 Alcatel Lucent	 Cloudstack	 ClusterControl	 Confluence	 Cooling	 CoreOS	 HTTP	 HTTPS	 Huawei
 Alerta	 Android	 Ansible	 Antivirus	 Apache	 Couchbase	 cPanel	 D-Link	 Database monitoring	 Datacom	 IBM AIX	 IBM AS/400	 IBM MQ
 APC	 Appdynamics	 Application monitoring	 Arduino	 Arista	 DB2	 Debian	 Dell	 DNS	 Docker	 Ingress	 Intel	 InterSystems
 Aruba	 Asterisk	 Avaya	 AWS	 AWS CloudWatch	 Drupal	 Elasticsearch	 Eltex	 EMC	 Emerson	 IRC	 Jabber	 JasperReports
 AWS EC2	 AWS S3	 Backup	 Bacula	 Barracuda	 Exim	 Extreme Networks	 F5 Networks	 Facebok Messenger	 Fedora	 JBoss	 Jenkins	 Jira
 Bigpanda	 Blue Coat	 BMC Remedy	 BorgBackup	 Brocade	 firebird	 Firewalls	 Flowdock	 Fortinet	 FreeBSD	 Julia	 Juniper	 Kafka
 Buffalo	 Bugzilla	 C#	 Capacity planning	 Cassandra	 FreshDesk	 Fujitsu Siemens	 Galera cluster	 Geckoboard	 Git	 Kubernetes	 KVM	 Kyocera
 Centos	 Ceph	 Check Point	 Chef	 Chrome extension	 Glassfish	 GLPi	 Go	 Google Apps	 Google Cloud	 Lenovo	 Lexmark	 Lighttpd
 Cisco	 Citrix	 Cloud Foundry	 Cloud monitoring	 Cloudera	 Google Maps	 Grafana	 Graylog	 Hadoop	 HAProxy	 Logstash	 Lucidworks	 LXC
 Cloudstack	 ClusterControl	 Confluence	 Cooling	 CoreOS	 High Availability	 Hipchat	 Hitachi HDS, HNAS	 HP Enterprise	 HP-UX	 Mattermost	 Mellanox	 Memcached

<https://zabbix.com/integrations>

TICKETING



ALERTING



ZBABIX 6.2: NEW TEMPLATES AND INTEGRATIONS

Improved S.M.A.R.T. monitoring, also added new templates for:



Amazon CloudWatch



CockroachDB

PROXMOX



envoy



kubernetes



TrueNAS



Monitoring and Integration Solutions

cisco

Cisco ASAv SNMP

Cisco Catalyst 3750V2-24FS SNMP

Cisco Catalyst 3750V2-24PS SNMP

Cisco Catalyst 3750V2-24TS SNMP

Cisco Catalyst 3750V2-48PS SNMP

Cisco Catalyst 3750V2-48TS SNMP

Cisco IOS SNMP

Cisco

- All Categories
- Official Templates
- Business KPI
- Caching
- Clouds
- Containers
- CRM
- DevOps
- Databases
- ERP
- HA & Clusters
- Helpdesks
- Infrastructure
- IoT
- Java
- Logfiles
- Mail
- Message brokers
- Mobile
- Monitoring systems
- Network
- Notifications & Alerting
- Orchestration
- Operation Systems
- Printers
- Search Engines
- Security
- Services
- Servers
- Storage
- Telephony
- Virtual Machines
- Visualization
- Web



Apache HTTP Server



.NET



1C:Предприятие



3com



3CX



actidata



Active Directory



ActiveMQ

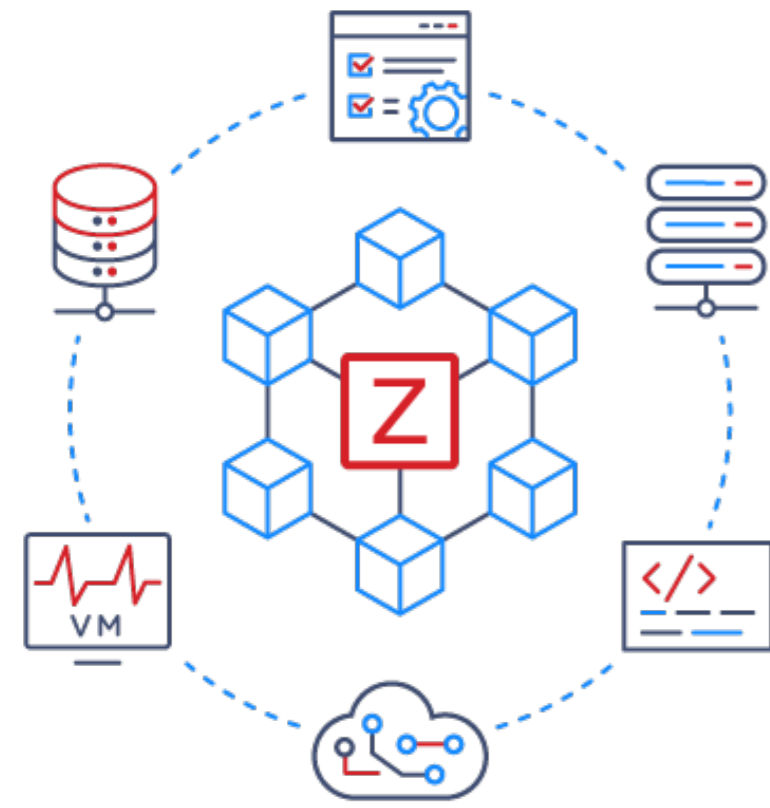


Adaptec



ADVA

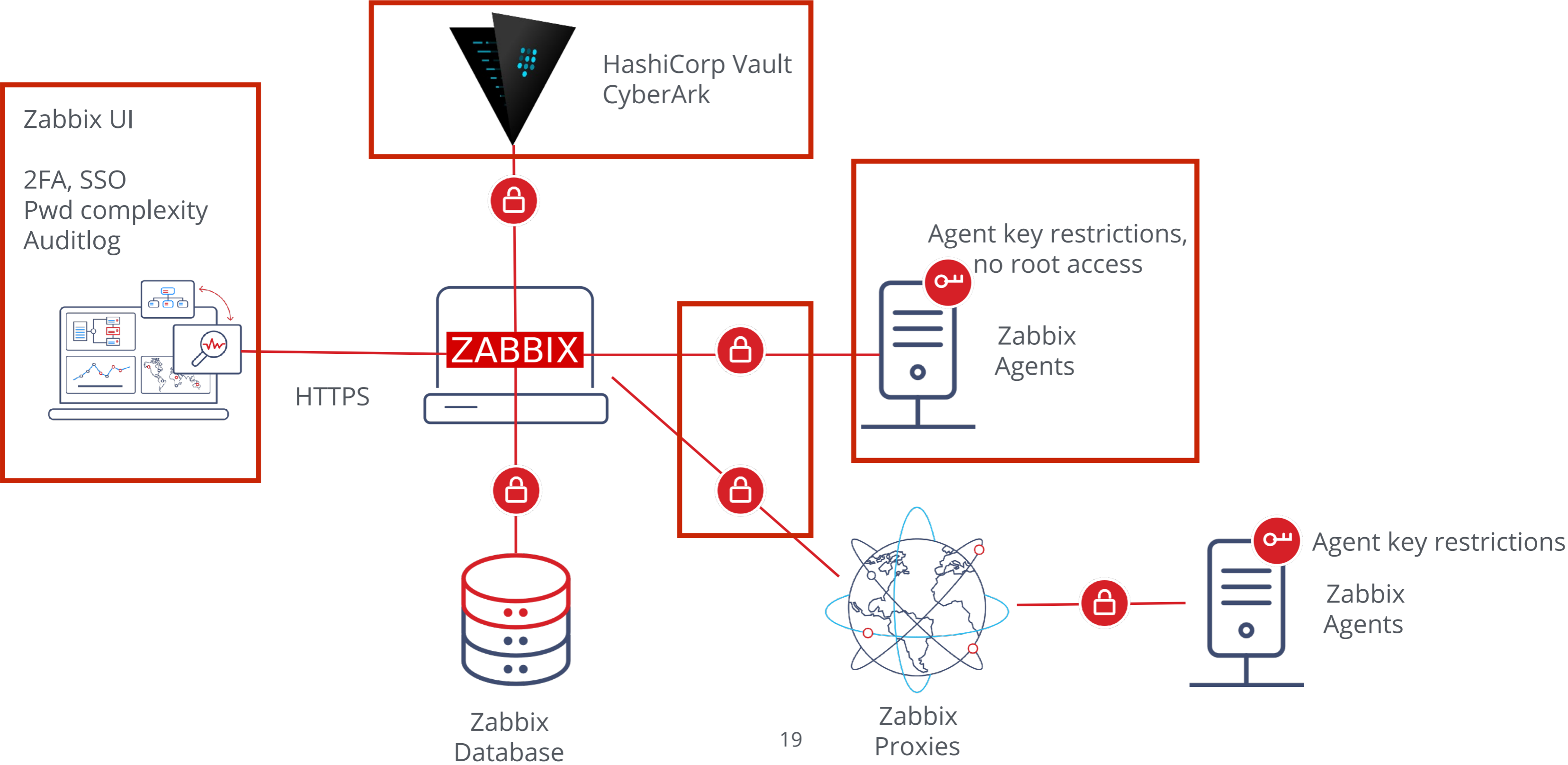
Templates
and
Integrations



Security **on all levels**

Highest security standards

SECURE BY DESIGN



Zabbix Security Advisories and CVE database

[How to report a security issue?](#)

Zabbix ID	CVE number	CVSS score	Zabbix severity	Synopsis	Component/s	Affected version/s	Published
ZBA-2022-04-1	-	-		Zabbix products are not affected by vulnerabilities in Spring Framework (CVE-2022-22965 - Spring4Shell) and Spring Cloud Function (CVE-2022-22963)	-	-	2022 Apr 04
ZBA-2022-03-1	-	-		Zabbix products are not affected by CVE-2018-25032 vulnerability in zlib 1.2.11	-	-	2022 Mar 28
ZBV-2022-01-2	CVE-2022-24917	3.7	Low	Reflected XSS in service configuration window of Zabbix Frontend	Frontend	4.0.0-4.0.38 5.0.0-5.0.20 5.4.0-5.4.10	2022 Feb 02
ZBV-2022-01-3	CVE-2022-24918	3.7	Low	Reflected XSS in item configuration window of Zabbix Frontend	Frontend	5.0.0-5.0.20 5.4.0-5.4.10 6.0	2022 Feb 02
ZBV-2022-01-1	CVE-2022-24349	4.6	Medium	Reflected XSS in action configuration window of Zabbix Frontend	Frontend	4.0.0-4.0.38 5.0.0-5.0.20 5.4.0-5.4 6.0	2022 Feb 01
ZBV-2022-01-4	CVE-2022-24919	3.7	Low	Reflected XSS in graph configuration window of Zabbix Frontend	Frontend	4.0.0-4.0.38	2022 Feb 01

USER ROLES

Granular control of user permissions

ZABBIX

Monitoring

Inventory

Reports

Configuration

Administration

General

Proxies

Authentication

User groups

User roles

Users

Media types

Scripts

Queue

Support

Share

Help

User settings

Sign out

User roles

* Name

Customers

User type

User

Access to UI elements

Monitoring

☒ Dashboard

☐ Overview

☐ Maps

☒ Problems

☐ Latest data

☐ Discovery

☐ Hosts

☐ Screens

☐ Services

Inventory

☐ Overview

☐ Hosts

Reports

☐ System information

☐ Audit

☐ Availability report

☐ Action log

☐ Triggers top 100

☐ Notifications

Configuration

☐ Host groups

☐ Maintenance

☐ Discovery

☐ Templates

☐ Actions

☐ Services

☐ Hosts

☐ Event correlation

Administration

☐ General

☐ User groups

☐ Media types

☐ Proxies

☐ User roles

☐ Scripts

☐ Authentication

☐ Users

☐ Queue

* At least one UI element must be checked.

Default access to new UI elements

☒

Access to modules

No enabled modules found.

Default access to new modules

☒

Access to API

Enabled

☒

API methods

Allow list

Deny list

host.get

item.get

type here to search

Select

Access to actions

☒ Create and edit dashboards and screens

SCHEDULED PDF REPORTS

Can be applied to **any dashboard**

Accessible to all users

Use user roles to restrict access

Daily, weekly, monthly or yearly

ZABBIX

ZBXNEXT-6478

Monitoring

Inventory

Reports

System information

Scheduled reports

Availability report

Triggers top 100

Audit

Action log

Notifications

Configuration

Administration

Support

Share

Help

User settings

Sign out

Scheduled reports

Create report

Filter

Name

Show

All

Created by me

Status

Any

Enabled

Disabled

Expired

Apply

Reset

<input type="checkbox"/>	Name ▲	Owner	Repeats	Period	Last sent	Status	Info
<input type="checkbox"/>	Daily report	Admin (Zabbix Administrator)	Daily	Previous day	2021-02-17 12:00:19	Enabled	
<input type="checkbox"/>	Monthly report	Admin (Zabbix Administrator)	Monthly	Previous month	2021-02-01 09:00:17	Expired	
<input type="checkbox"/>	Weekly report	Admin (Zabbix Administrator)	Weekly	Previous week	Never	Disabled	

0 selected

Enable

Disable

Delete

Displaying 3 of 3 found

Zabbix 5.4.0alpha2. © 2001–2021, Zabbix SIA

BUSINESS SERVICE MONITORING (BSM)

Complex **SLO** definitions for **100K+** services

SLA real-time and scheduled reporting

Multi-tenancy using flexible user roles

Alerting, **root cause** and **impact analysis**



POWERFUL SOLUTION FOR MSP

Zabbix monitoring as added-value service

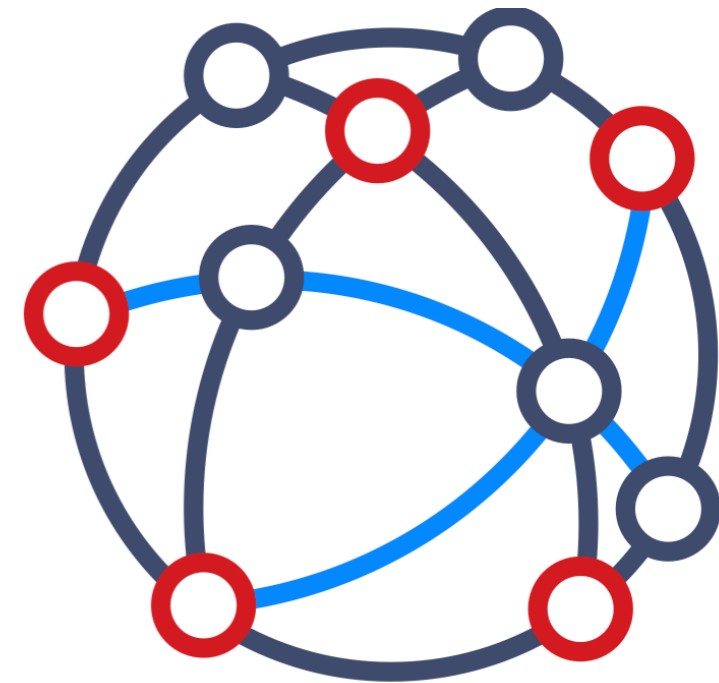
Customer portal, a combination of

- user roles for read-only access to dashboards and customized UI

- re-branding options

- SLA reporting

- scheduled reports

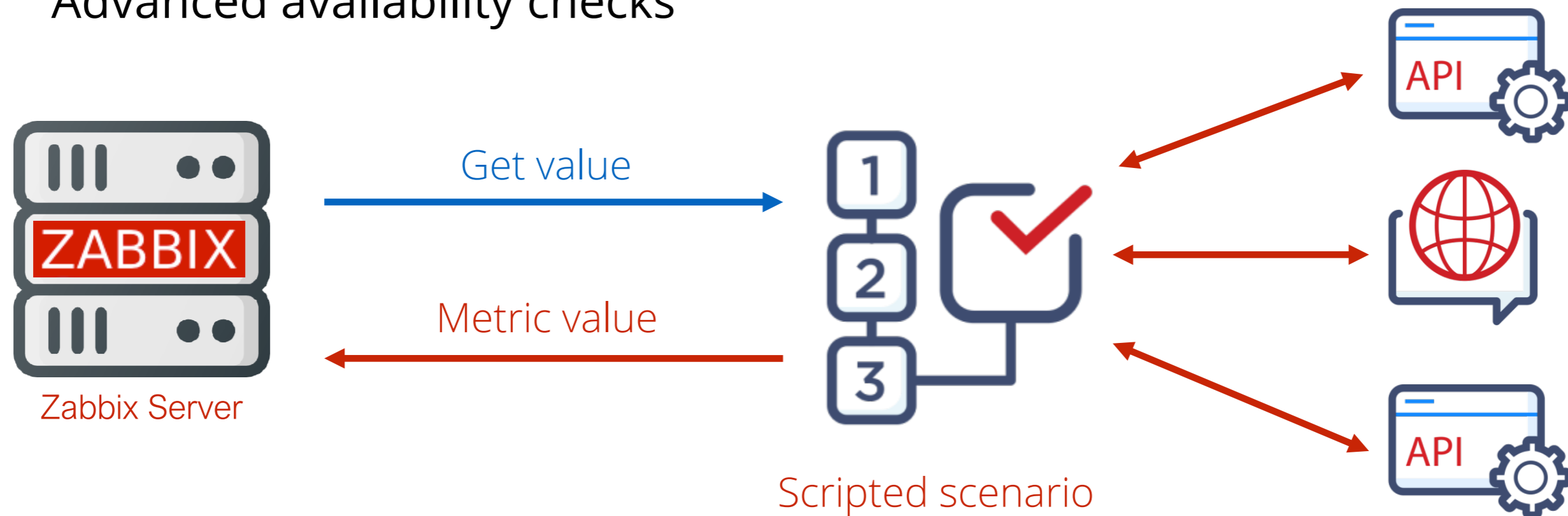


SYNTHETIC MONITORING

Complex interaction with Cloud APIs over HTTPS: AWS, Azure, GCP

Multi-step scripted data collection

Advanced availability checks



BASELINE MONITORING, ANOMALY DETECTION

“Number of new user registrations is down 12% last week”

“Sudden anomaly detected in daily bandwidth usage”

“Unusual weekly CPU usage”

ZABBIX FEATURES

All benefits of Zabbix in one place

Use as a reference

Answers many FAQs

<https://zabbix.com/features>



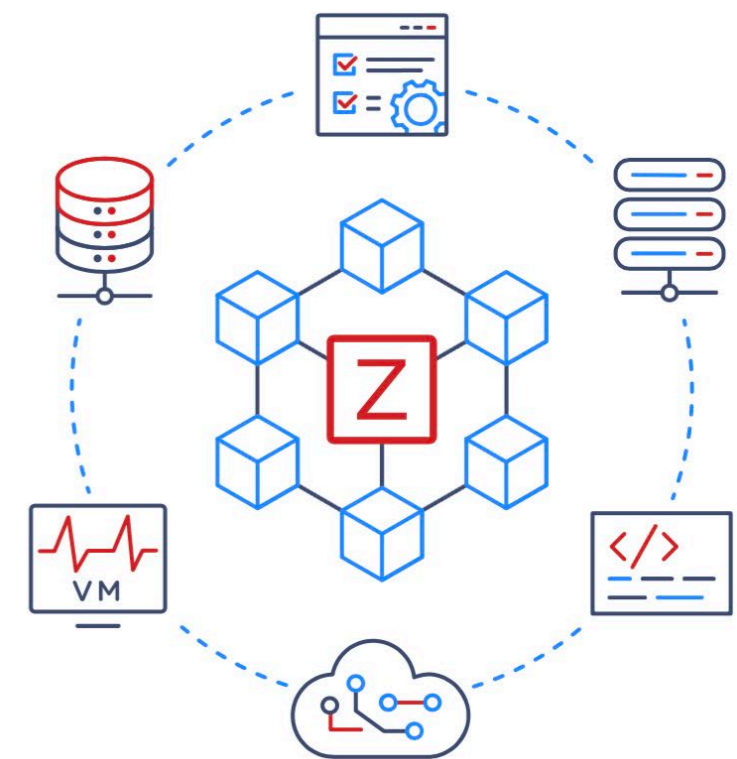
Keep control of your infrastructure by collecting any metric from any source



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





What's **next**?

What can be improved?

ZABBIX ROADMAP

It is always a **compromise**, a balance of:

Strategic functionality

ZBXNEXT popular and less popular feature requests

Paid development

Backlog issues

Compromise == we cannot make everyone happy 😊



Main vectors

More value for the enterprise

General usability: UX and UI, ease of use

Cloud monitoring, visualization and reporting

Event and problem handling and processing

Extending scope of monitoring: compliance monitoring, APM, IoT, advanced log monitoring, public and hybrid cloud monitoring

Extendability on all levels: pluggable storage engines, agent plugins+UI modules+3rd party widgets, webhooks

HA, scalability and load balancing

ZERO-DOWNTIME UPGRADE OF PROXIES

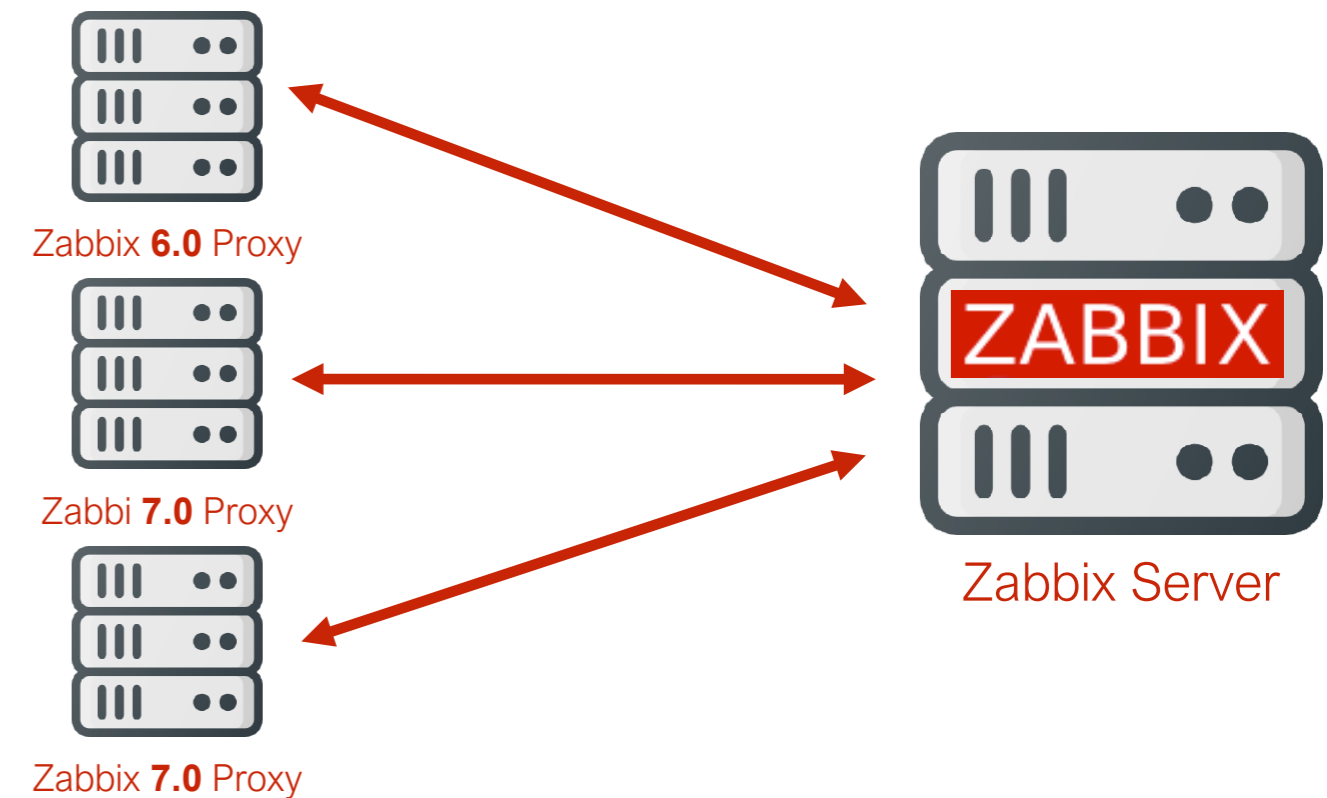
Now:

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



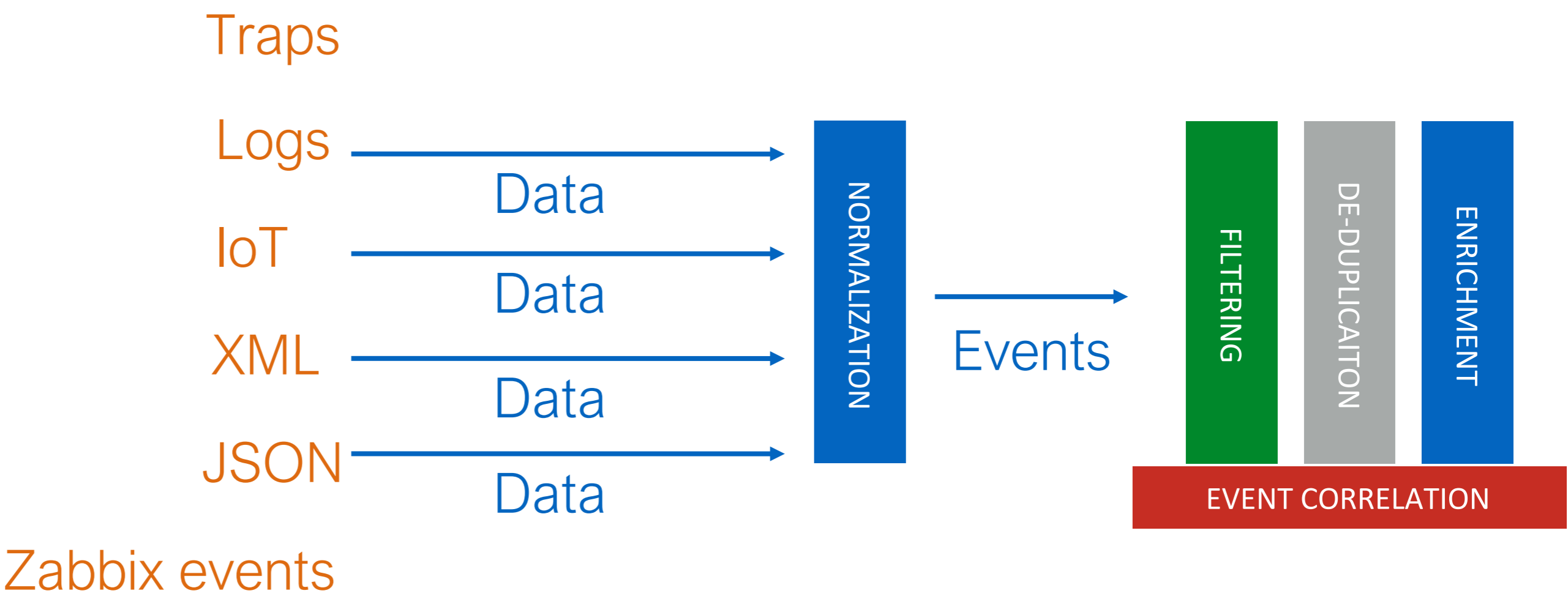
ADVANCED EVENT CORRELATION

Tag based event pre-processing and correlation

Event filtering, de-duplication, enrichment

Noise reduction

Normalization

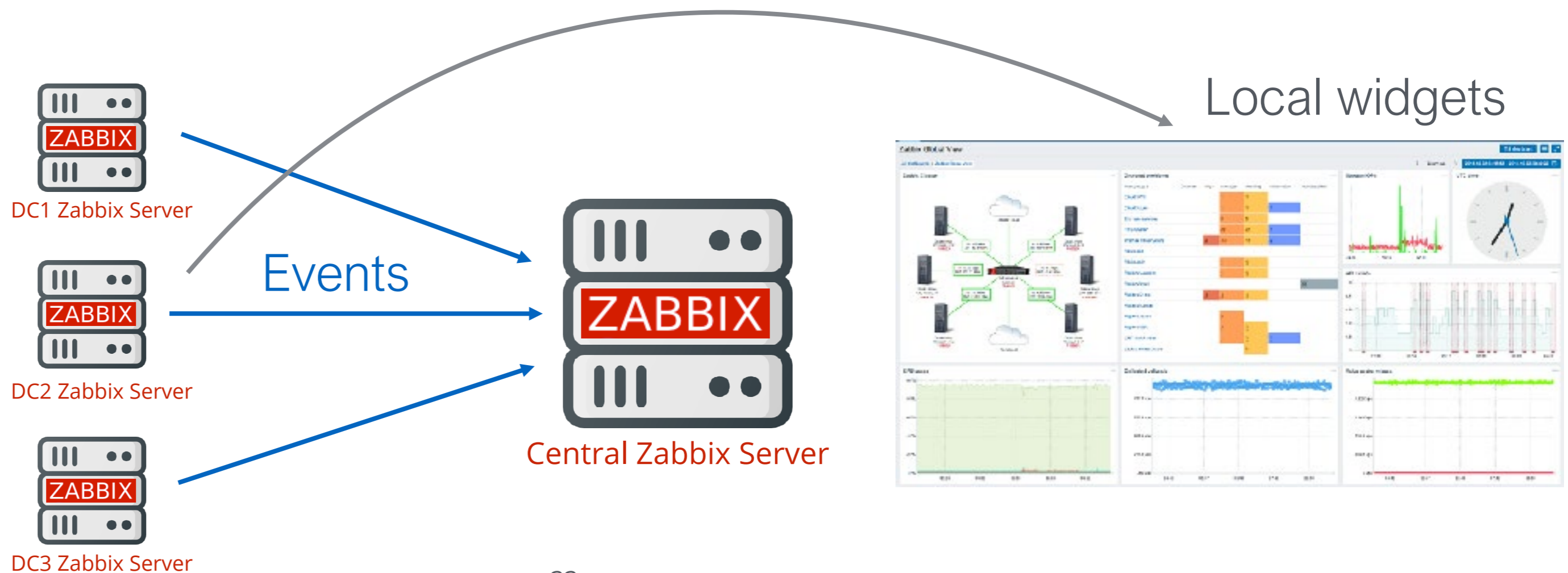


MULTI DC MONITORING

Centralized event processing

Centralized dashboards

Getting events from multiple Zabbix Servers



TEMPORARY PROBLEM SUPPRESSION

- Suppress selected problems
- Hide from the list of problems
- Suspend notifications

Update problem

ProblemRandom greater than 0 (new)

Message

History

Time	User	User action	Message
------	------	-------------	---------

Scope

☒ Only selected problem

☐ Selected and all other problems of related triggers 25 events

Change severity☐

Not classified

Information

Warning

Average

High

Disaster

Suppress ?☒

Indefinitely

Until

2022-03-31 00:00

Acknowledge ?☐

Close problem☐

* At least one update operation or message must exist.

Update

Cancel

NEW VISUALIZATION CAPABILITIES

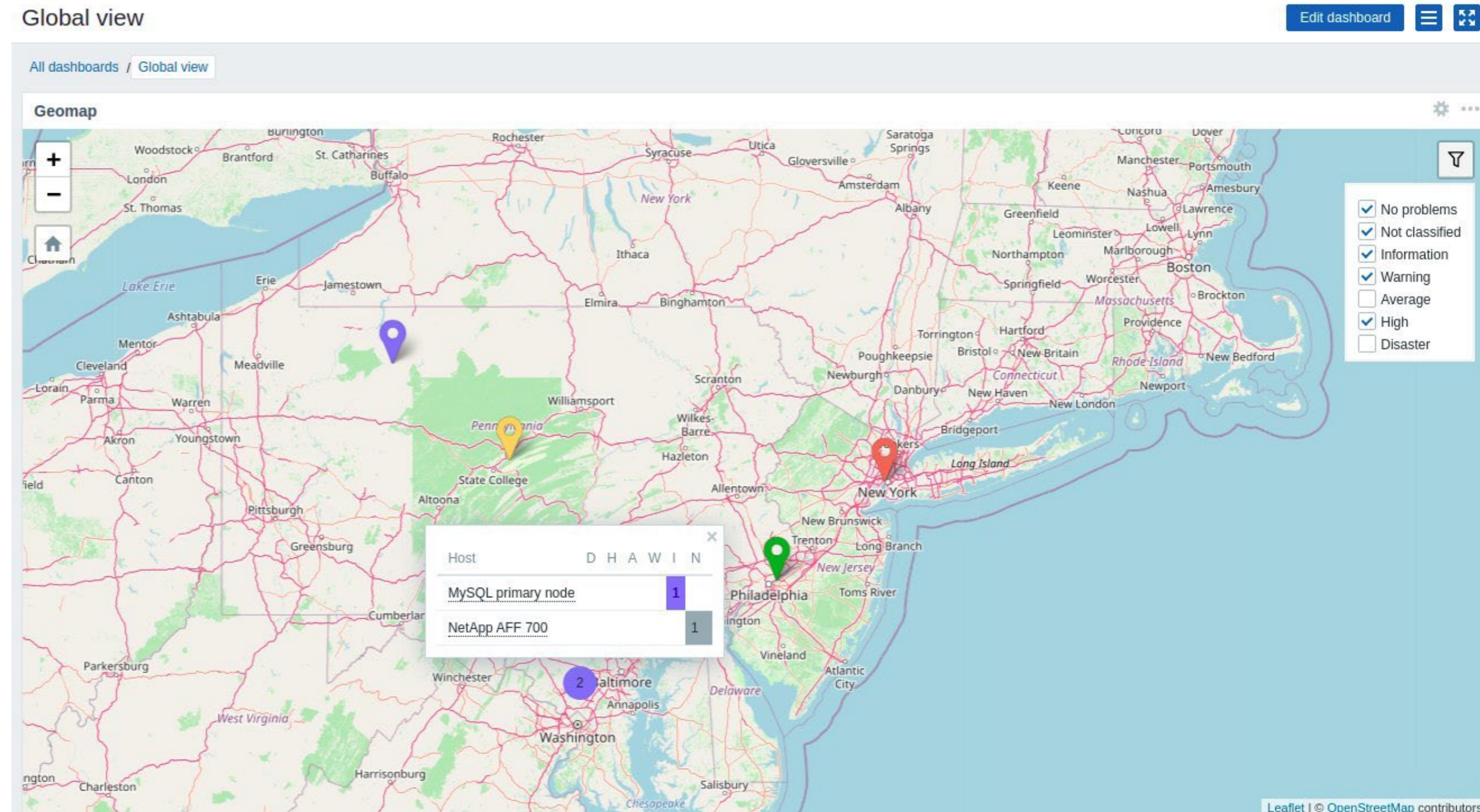
New set of widgets

Host-level TopN reporting

More host-level widgets

Visualization of Cloud & K8S

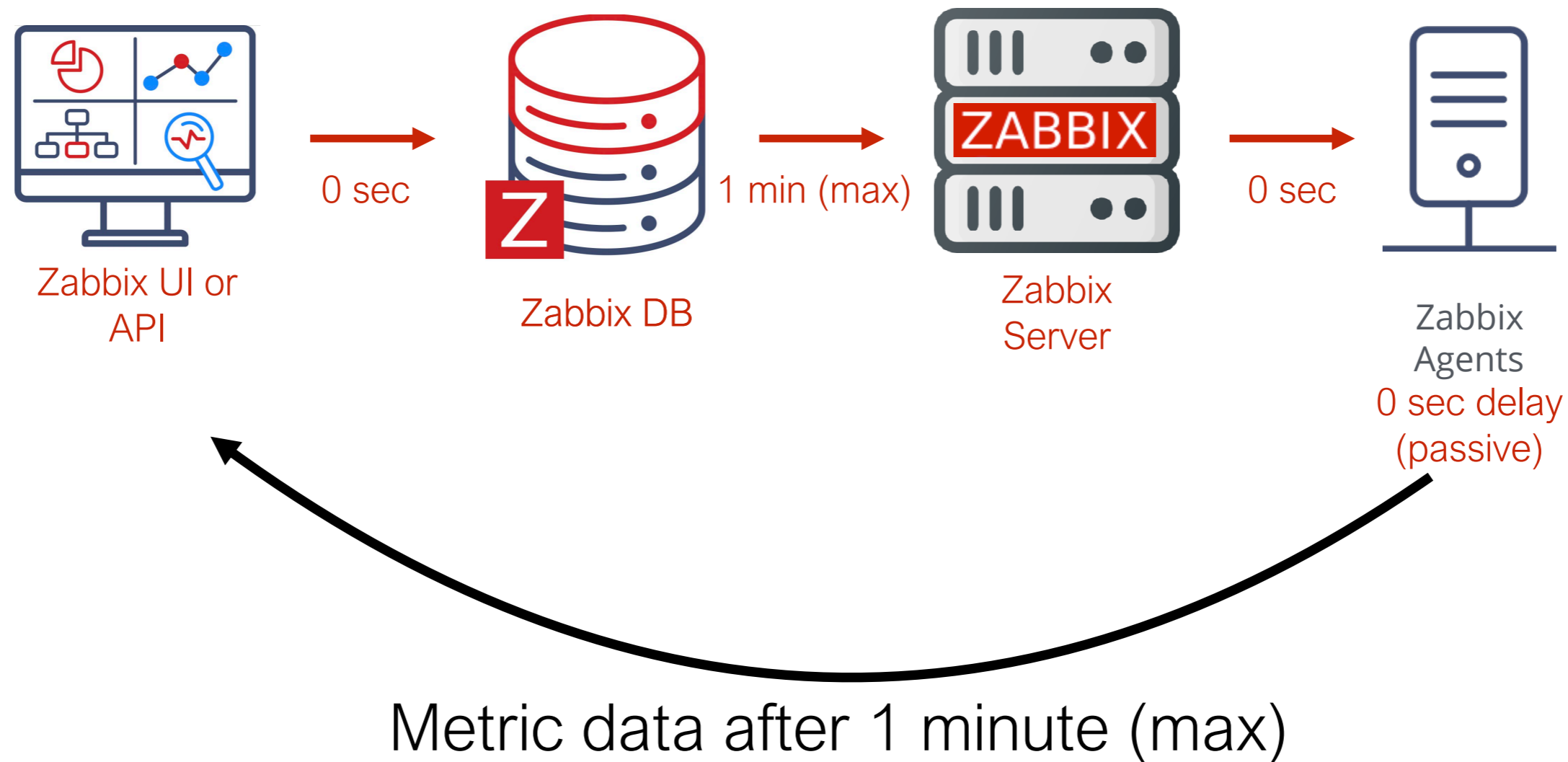
Framework for widget devs



INSTANT CONFIGURATION UPDATE

Configuration cache will support **incremental updates**

New items are now checked within a minute after their creation



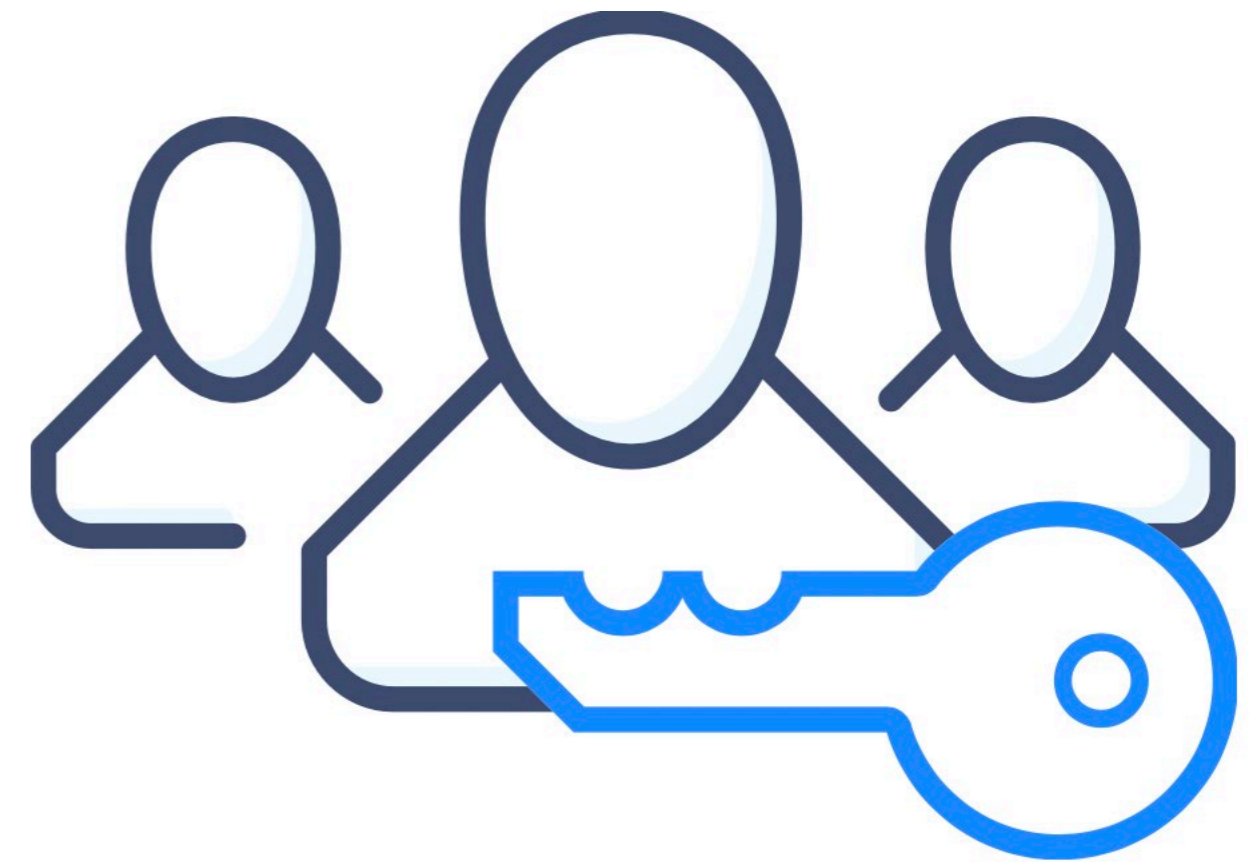
JIT USER PROVISIONING

Automatic user provisioning

Auto-creation of users for **LDAP** and **SAML**

Management of users and their rights outside of Zabbix

Automatic mapping of user rights to user groups



ZABBIX 7.0 LTS ROADMAP IN A NUTSHELL

Cloud & K8S monitoring and visualization	Event correlation engine	Simplified upgrade of proxies
JIT user provisioning for AD/LDAP/SAML	Receiving events from other systems	Advanced visualization
End-user synthetic monitoring	Enterprise alarm console	Massive usability improvements
Security and compliance monitoring	Framework for new widgets	New templates and integrations

LATER

Observability: APM + tracing, Open Telemetry integration

Cloud native: HA, performance and scalability

Log management

Roadmap

This page contains an incomplete list of planned functionality that can be updated anytime without prior notice

Zabbix 6.2

Zabbix 6.4

Zabbix 7.0 LTS

High availability, performance and scalability

- Instant update of configuration changes **In dev**
Zabbix Server will immediately notice configuration changes made by UI or API. No more delays and heavy configuration syncs
[ZBXNEXT-7553](#), [ZBXNEXT-7554](#) ★ Top voted!

General usability improvements

- Improve usability of saved filter views **In dev**
[ZBXNEXT-6356](#)
- Introduce links to Zabbix manual from all UI screens **Ready**
All parts of the Zabbix user interface will have direct links to the corresponding pages of Zabbix online documentation
[ZBXNEXT-7420](#)
- Display status of active checks **Ready**
Zabbix UI will display the status of active checks the same way as it is currently implemented for passive checks
[ZBXNEXT-5088](#) ★ Top voted!
- Support of Check Now in the Latest data view **Ready** **New**
Ability to force data collection for selected metrics straight from the Latest data view
[ZBXNEXT-4768](#) ★ Top voted!
- Remember filtering options **In dev** **New**
Filtering options used in the Monitoring will be remembered in user profiles
[ZBXNEXT-7567](#)
- Transition to modal forms **Ready** **New**
[ZBXNEXT-7464](#), [ZBXNEXT-7138](#)

Status label

New

In design

In dev

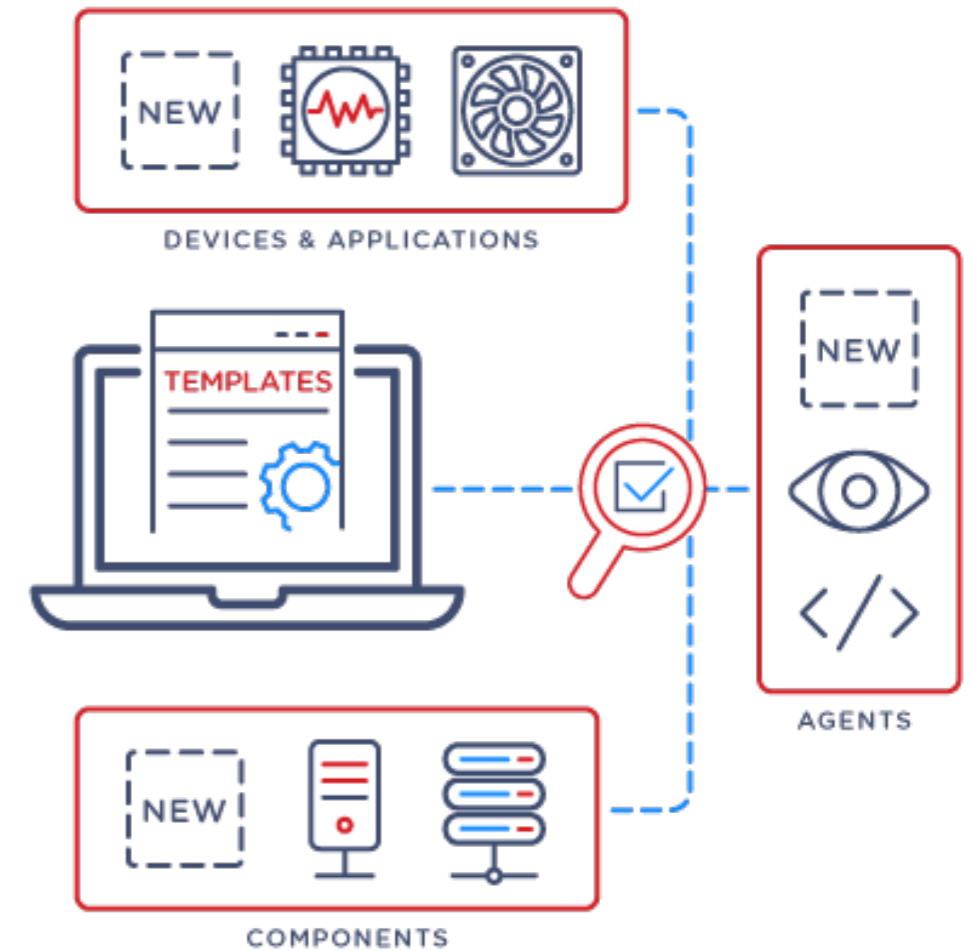
Ready

ZABBIX RELEASE SCHEDULE

Zabbix 6.2: Q2, 2022 (RC1 to be released next week)

Zabbix 6.4: Q4, 2022

Zabbix 7.0 LTS: Q2, 2023



Zabbix Community

We love you and your contributions!



PROPOSE NEW FEATURES

Propose new features, vote

T	Zabbix ID	Key	Summary	Assignee	Reporter	Votes	P	Status	Resolution	Created	Updated	Due	Labels
	RTD	ZBXNEXT-46	Host based dependencies	Unassigned	Ankur Sethi	280		OPEN	Unresolved	2009 Aug 09	2022 May 18		dependencies triggers
	RTD	ZBXNEXT-276	LDAP authentication with groups support	Zabbix Development Team	Roberto Rios	265		REOPENED	Unresolved	2010 Mar 17	2022 May 02		authentication ldap usability
	NMR	ZBXNEXT-927	Allow LLD Graphs to graph an item for each discovered entity in a single graph	Unassigned	Andrew Howell	259		OPEN	Unresolved	2011 Aug 29	2022 Feb 25		graphs lld
	NMR	ZBXNEXT-473	Ability to Check Now a specific passive item	Unassigned	Robert Hau	244		OPEN	Unresolved	2010 Aug 17	2021 Jan 18		items pollers sampling ...
	NMR	ZBXNEXT-97	ability to test an action in frontend	Unassigned	Christoph Haas	175		OPEN	Unresolved	2009 Oct 06	2021 Jun 07		actions patch usability
	RTD	ZBXNEXT-336	ability to customise inventory fields	Unassigned	richlv	168		OPEN	Unresolved	2010 Apr 29	2022 May 27		inventory
		ZBXNEXT-5088	Set Agent icon color to green on getting "active" data	Dmitrijs Goloscapovs	dimir	117		MERGING	Unresolved	2019 Mar 04	2022 May 29		activeagent availability icon
	NMR	ZBXNEXT-117	Add comments to graphs	Unassigned	Robin Holtet	114		OPEN	Unresolved	2009 Nov 04	2022 Apr 13		events graphs
	NMR	ZBXNEXT-562	Get PNG graph image via API	Unassigned	azurlt	112		OPEN	Unresolved	2010 Nov 18	2022 May 16		api export graphs png
	NMR	ZBXNEXT-247	Built in feature to export reports and statistics	Unassigned	Emil Odepark	110		OPEN	Unresolved	2010 Feb 22	2021 Apr 26		csv export reports
	NA	ZBXNEXT-2088	Allow merging of discovered VM's and data from an installed agent	Unassigned	Gene Liverman	102		OPEN	Unresolved	2013 Dec 24	2022 May 04		interfaces lld usability vmware
		ZBXNEXT-5611	Ability to get an image of last value or a graph in a webhook	Andris Zeila	Ilya Ableev	96		OPEN	Unresolved	2019 Dec 03	2021 Mar 07		None

TRANSLATE ZABBIX

Start translating in 5 minutes!

Zabbix Documentation

Zabbix UI

Teams

Projects

Contributors

Machinery

Sign in

Zabbix UI 6.0

PRIORITY

DEADLINE

★★★★★

—

49

%

TRANSLATED

63,111

FUZZY

202

WARNINGS

0

ERRORS

0

MISSING

64,826

ALL STRINGS

128,139

UNREVIEWED

224

TEAMS

33

CONTRIBUTORS

INFO

Filter teams

LANGUAGE ^	LOCALE	SPEAKERS	LATEST ACTIVITY	PROGRESS	
Bulgarian	bg	8,107,000	1 month, 3 weeks ago	<div></div>	35% <div></div>
Catalan	ca	8,363,000	3 weeks, 6 days ago	<div></div>	5% <div></div>
Chinese	zh-TW	22,244,000	—	<div></div>	36% <div></div>
Chinese	zh-CN	1,230,741,000	1 month, 1 week ago	<div></div>	66% <div></div>
Czech	cs	10,432,000	—	<div></div>	68% <div></div>
Dutch	nl	31,185,000	—	<div></div>	32% <div></div>
English	en-GB	63,447,000	—	<div></div>	0% <div></div>
Finnish	fi	5,381,000	—	<div></div>	2% <div></div>
French	fr	231,633,000	3 days, 21 hours ago	<div></div>	88% <div></div>
Georgian	ka	4,343,000	—	<div></div>	3% <div></div>
German	de	107,183,000	1 month ago	<div></div>	84% <div></div>

GOT A TEMPLATE?

Share it!

main
 1 branch
 0 tags

[Go to file](#)
[Code](#)

oscar120584 Merge pull request [#84](#) from gleydsoncavalcanti/patch-3 ...

✓ c4ee7cd 21 days ago
 🕒 **158** commits

	.github	added 6.0 templates	3 months ago
	Applications	Merge pull request #83 from Jaxom99/patch-1	21 days ago
	Cloud	added 6.0 templates	3 months ago
	Databases	added 6.0 templates	3 months ago
	Network_Appliances	added 6.0 templates	3 months ago
	Network_Devices	Merge pull request #84 from gleydsoncavalcanti/patch-3	21 days ago
	Operating_Systems	Merge pull request #76 from GJJack/fix_zfs	21 days ago
	Power_(UPS)	added 6.0 templates	3 months ago
	Printers	Xerox B215 Template for Zabbix 6.0	last month
	SCADA_IoT_Energy_Home_Automa...	added 6.0 templates	3 months ago
	Server_Hardware	applied MD RAID fixes from 6.0 to 5.0 and 5.4	2 months ago
	Storage_Devices	Add files via upload	2 months ago
	Telephony	added 6.0 templates	3 months ago
	Unsorted	added 6.0 templates	3 months ago
	Virtualization	added info for external checks	3 months ago
	docs	Update app MQTT page	29 days ago
	LICENSE	Create LICENSE	6 months ago
	README.md	Re-build README.md	2 months ago

README.md

About

Zabbix Community Templates repository

[share.zabbix.com](#)

zabbix-templates

- Readme
- MIT license
- 375 stars
- 33 watching
- 487 forks

Releases

No releases published

Packages

No packages published

Contributors 29

+ 18 contributors

Languages

SCSS 69.8%

Python 26.1%

Shell 2.1%

HTML 1.8%

<https://github.com/zabbix/community-templates>



Community Social

What's Up, Home? – Marrying Zabbix and Cozify IoT hub



By Janne Pikkarainen — May 6, 2022



For those of you who know me, this should not come as a surprise: I absolutely love [Zabbix](#). It gives me the ultimate freedom to monitor whatever I need to monitor and is flexible enough to be able to monitor absolutely *everything* you can imagine. It's free, it's open-source, and [scales](#) to whatever needs you might have.

What does a monitoring nerd who is a technical lead for monitoring in a global cyber security company do during his downtime? That's a silly question, mind you. Of course, he monitors his home with a home Zabbix instance.

Living room temperature	Bedroom temperature	Home office temperature
2022-03-18 10:29:57	2022-03-18 10:29:57	2022-03-18 10:29:57

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ZABBIX NEWSLETTER

Get the latest news!



What's New



Zabbix [4.0.40](#), [5.0.23](#), [6.0.4](#) and [6.2.0beta2](#) were released. Zabbix 6.2.0beta2 version includes some long-awaited features, such as the *availability icon* for Zabbix active agent checks, as well as the improved *Latest data* filtering and new *VMware metrics*. Discover more features in the [release notes](#).



On April 27, we held Zabbix Meetup Online 2022, with all the slides of the presentations now available on our [website](#). Dive into the valuable content delivered by speakers with the extensive Zabbix experience.



We are pleased to announce that Zabbix packages are now officially available for the Rocky Linux and Alma Linux OS distributions. Download them [here](#).

Check Out New Integrations



Zabbix + Proxmox

Monitor your Proxmox virtual environment with the official Zabbix Proxmox template! Explore and monitor your clusters, LXC containers and QEMU VMs hosted in Proxmox.



Zabbix + TrueNAS

Explore automated discovery and monitoring of your TrueNAS storage. Use the template to monitor TrueNAS volumes, block devices, pools, network interfaces, and other performance and system state metrics.

ZABBIX

Handy Tips #29

Discovering hosts and services with network discovery

Automate host creation and monitoring with Zabbix network discovery.

Creating hosts for a large number of monitoring endpoints can become a menial and time-consuming task. It is important to provide the end-users with the tools to automate such tasks to create and start monitoring hosts based on a user-defined set of rules and conditions.

Automate host onboarding and offboarding with Zabbix network discovery:

- ▶ Discover monitoring endpoints and services in user defined IP ranges
- ▶ Define a set of services that should be discovered
- ▶ Provide custom workflows based on the received values
- ▶ Onboard or offboard hosts based on the discovery status

Check out the video to learn how to discover your monitoring endpoints with Zabbix network discovery.





ZABBIX 2022 Conference BRAZIL

OBRIGADO