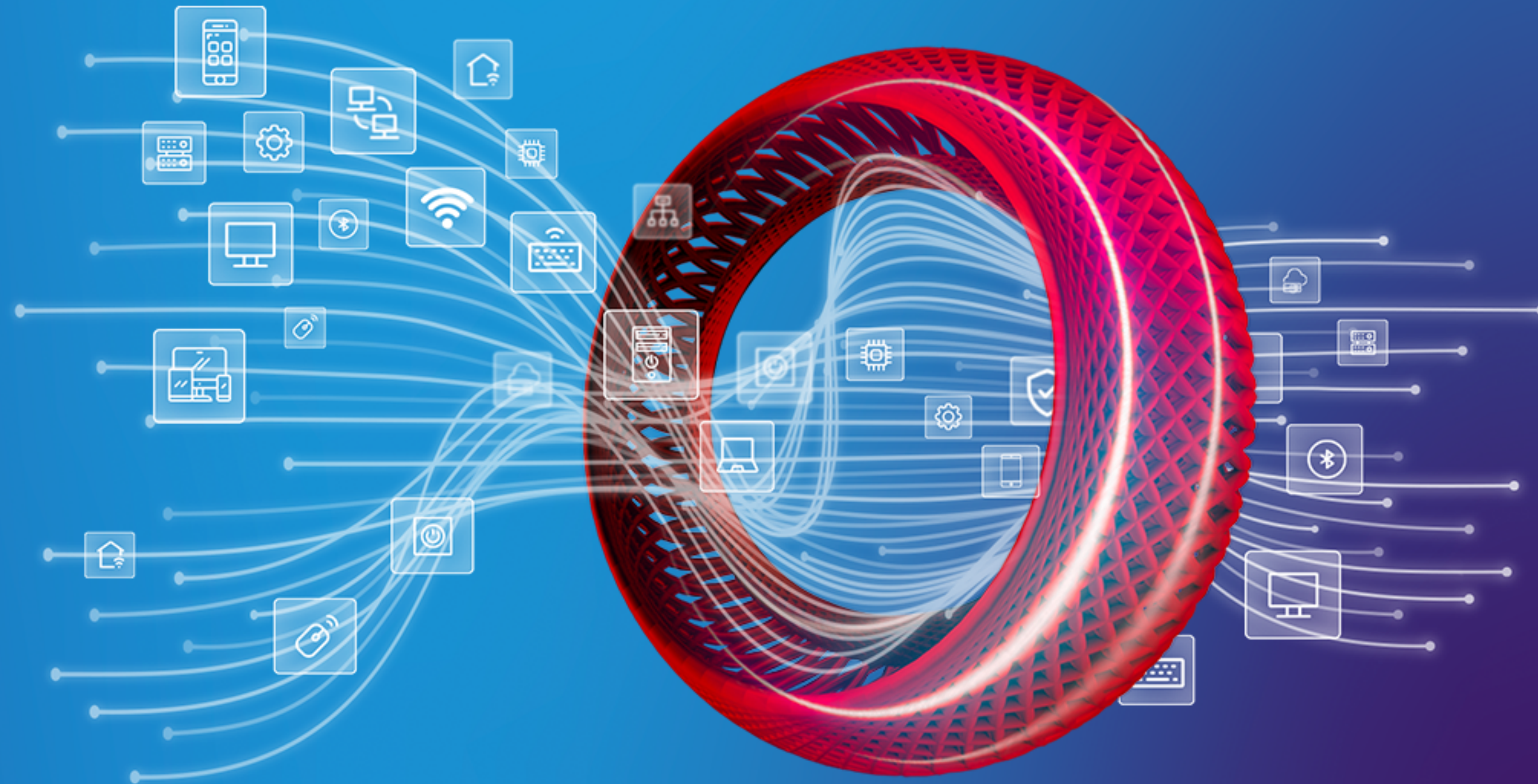


ZABBIX

Why Zabbix?



Alexei Vladishev
ZABBIX Founder & CEO



zabbix

Digital transformation journey

DIGITAL TRANSFORMATION CHALLENGES

- ✓ Management of legacy and existing systems, mix of older and newer technologies and protocols
- ✓ Transition to Hybrid Clouds, K8S and OpenShift
- ✓ Scalability and HA
- ✓ **Security** plays an increasingly important role
- ✓ Budget concerns



Infrastructure monitoring challenges

INFRASTRUCTURE MONITORING CHALLENGES

- ✓ Scalability and high availability
 - ✓ **Growing number** of devices, networks, increasing complexity
- ✓ The Multiple Tools Problem
 - ✓ Missing Single Pane of glass
- ✓ Getting more value out of collected data
- ✓ **Centralized** visualisation and reporting
- ✓ New processes: AIOps

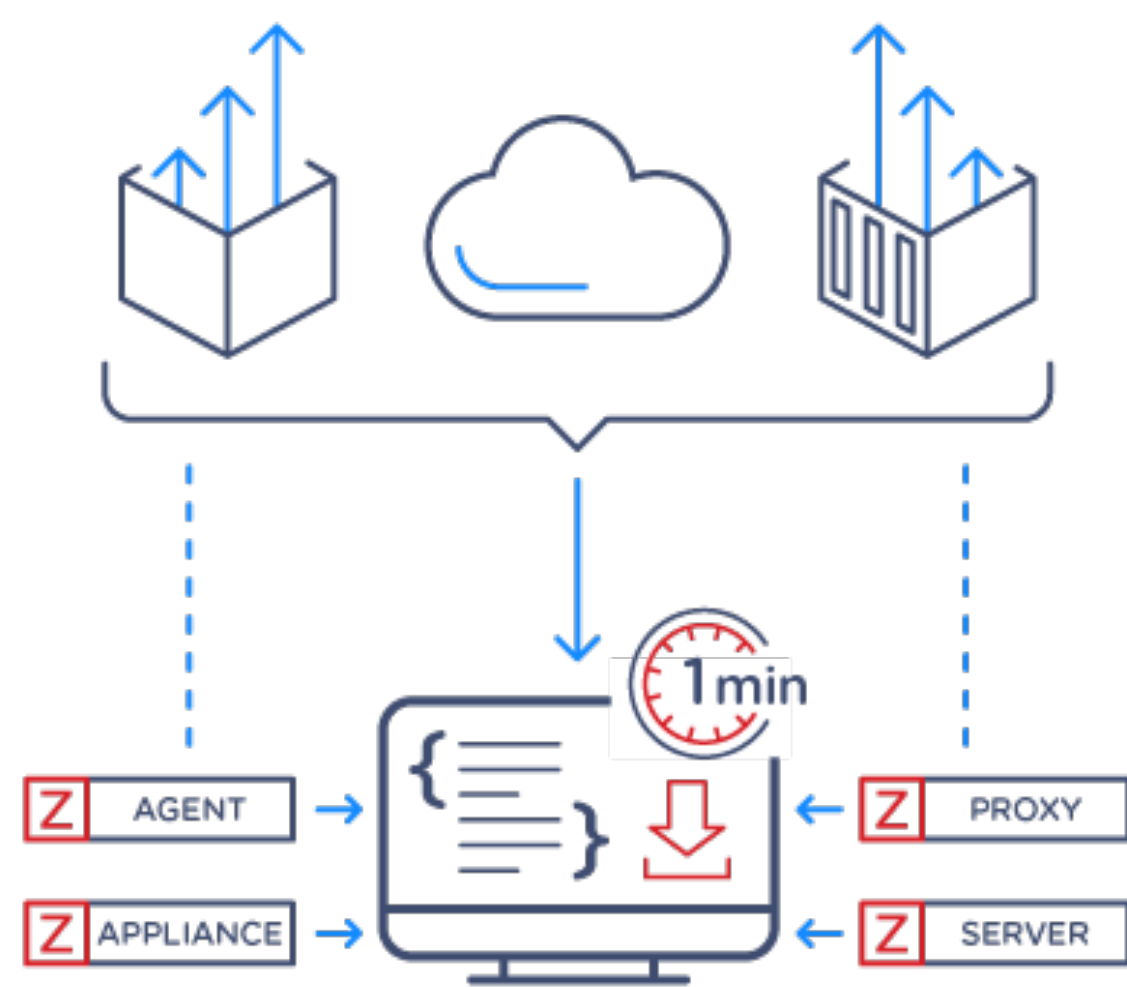


Zabbix is an **Universal** Open Source
enterprise-level monitoring solution

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 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



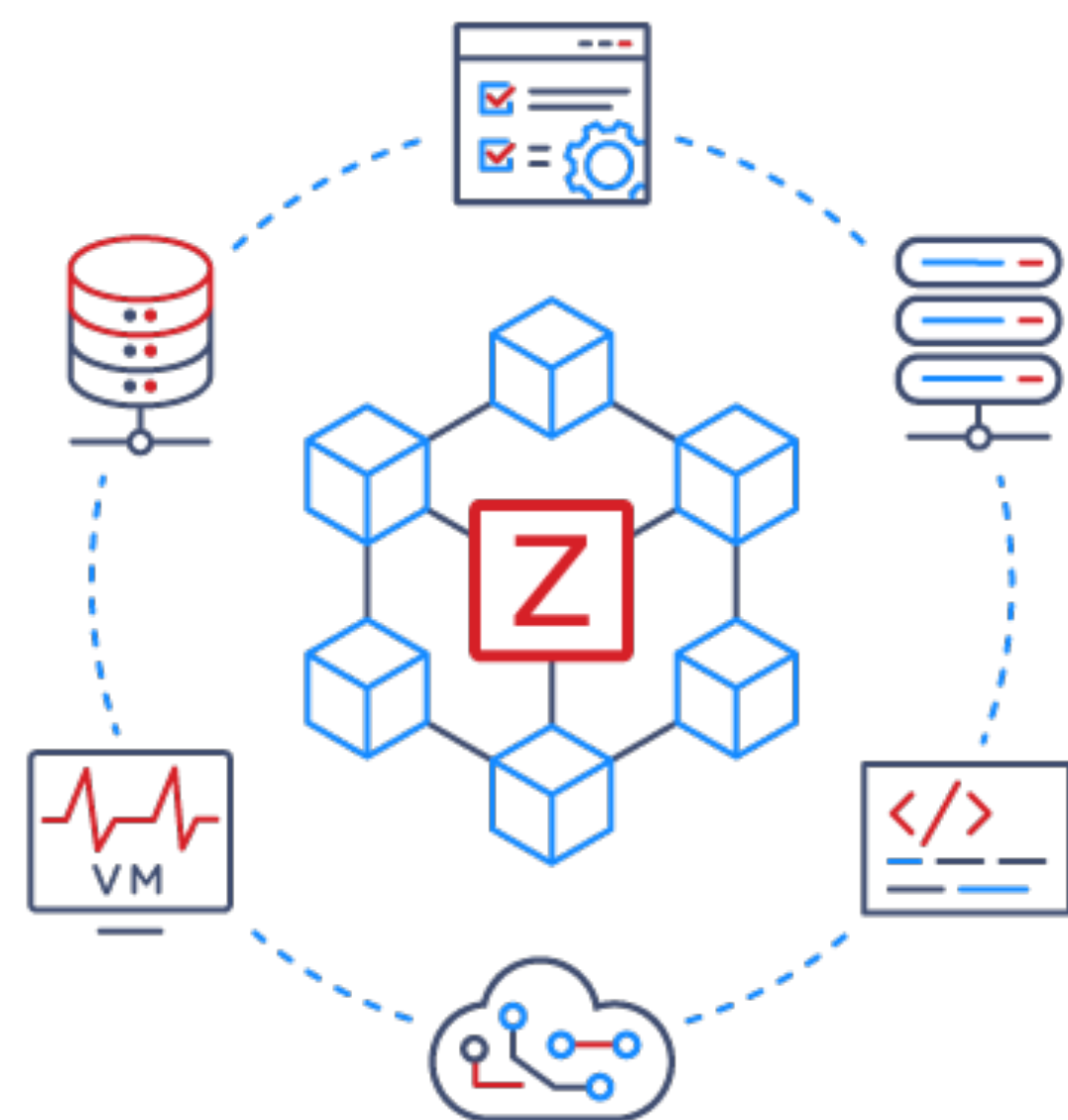
Deploy anywhere

DEPLOY ON-PREMISE



DEPLOY IN THE CLOUD


























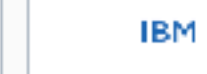












































































































Monitor **anything**

Legacy and modern systems, ready for the future

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	 FS Networks	 Facebook 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

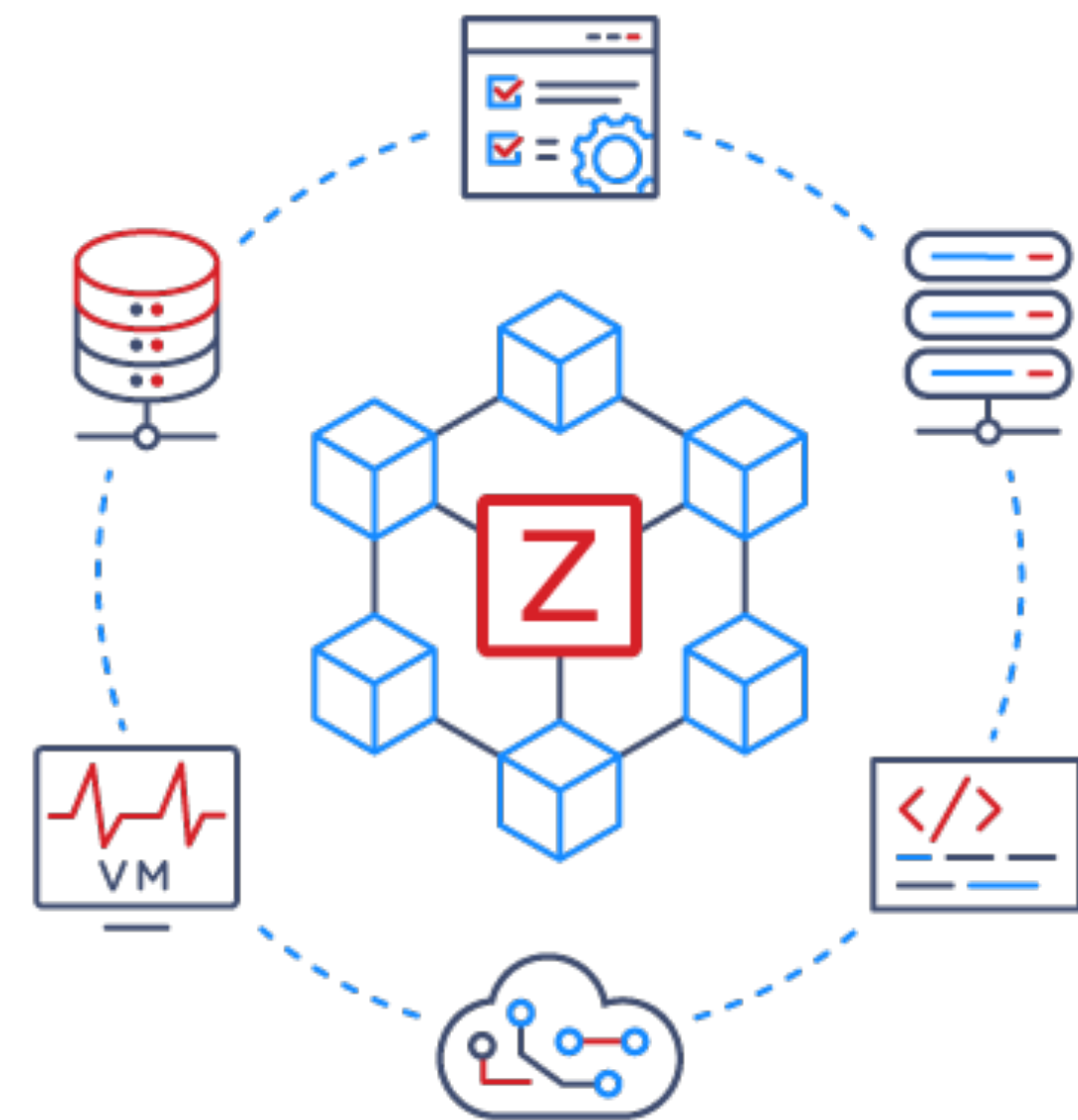
<https://zabbix.com/integrations>

Ticketing



Alerting

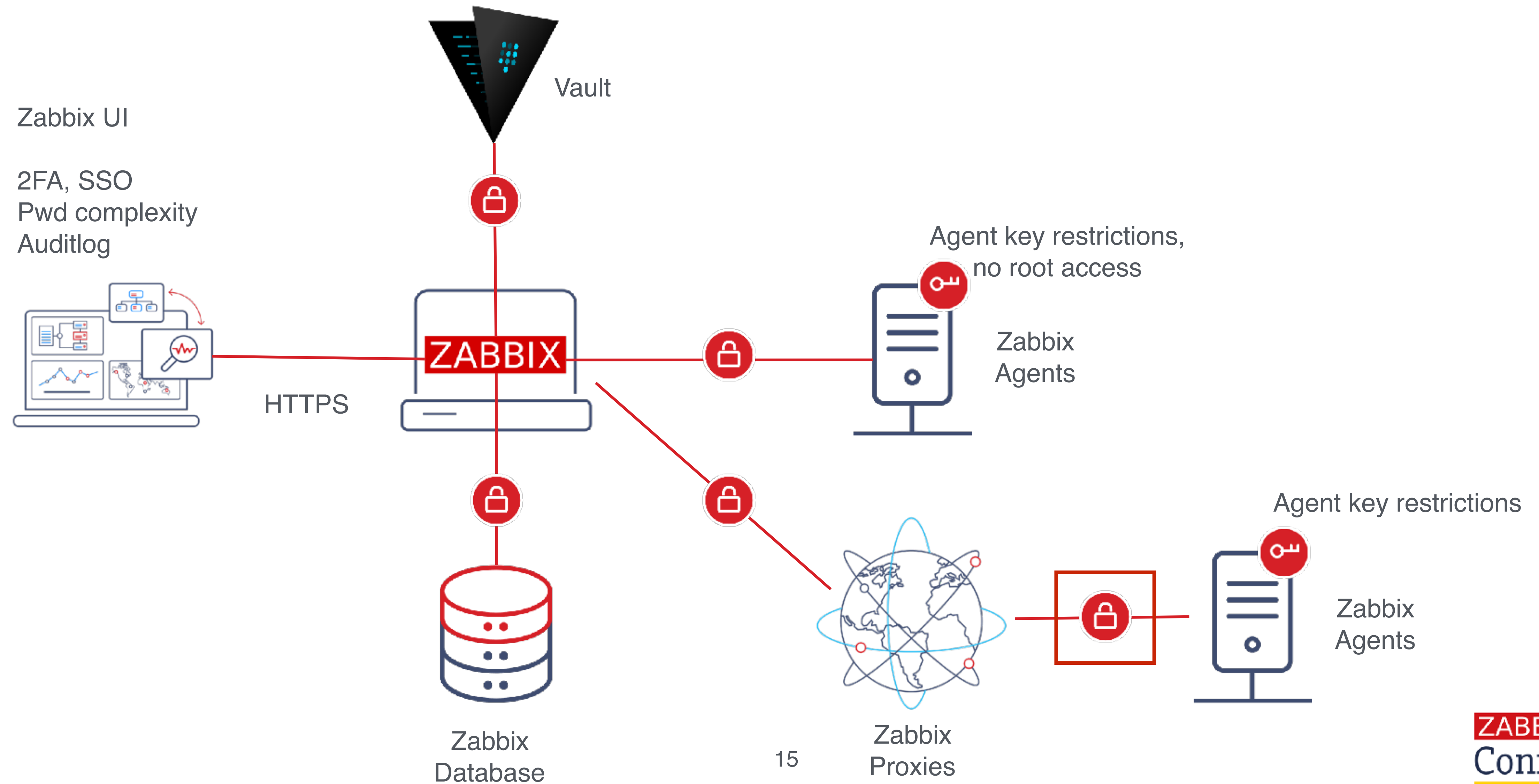




Security **on all levels**

Highest security standards

SECURE BY DESIGN



[Home](#) / [Product](#) /

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
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 5.0.0-5.0.20 5.4.0-5.4.10 6.0	2022 Feb 01
ZBV-2021-12-2	CVE-2022-23134	3.7	Low	Possible view of the setup pages by unauthenticated users if config file already exists	Frontend	5.4.0 - 5.4.8 6.0.0 -	2021 Dec 20

https://zabbix.com/security_advisories

GRANULAR CONTROL OF USER PERMISSIONS

- ✓ Different parts of UI can be made accessible for **different user roles**
- ✓ Control what user operations are accessible: maintenance, editing of dashboards, etc
- ✓ Fine grained control access to API and its methods for extra security



* Name

Customers

User type

User

Access to UI elements

Monitoring	<input checked="" type="checkbox"/> Dashboard	<input checked="" type="checkbox"/> Problems	<input type="checkbox"/> Hosts
	<input type="checkbox"/> Overview	<input type="checkbox"/> Latest data	<input type="checkbox"/> Screens
	<input type="checkbox"/> Maps	<input type="checkbox"/> Discovery	<input type="checkbox"/> Services
Inventory	<input type="checkbox"/> Overview	<input type="checkbox"/> Hosts	
Reports	<input type="checkbox"/> System information	<input type="checkbox"/> Availability report	<input type="checkbox"/> Triggers top 100
	<input type="checkbox"/> Audit	<input type="checkbox"/> Action log	<input type="checkbox"/> Notifications
Configuration	<input type="checkbox"/> Host groups	<input type="checkbox"/> Templates	<input type="checkbox"/> Hosts
	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Actions	<input type="checkbox"/> Event correlation
	<input type="checkbox"/> Discovery	<input type="checkbox"/> Services	
Administration	<input type="checkbox"/> General	<input type="checkbox"/> Proxies	<input type="checkbox"/> Authentication
	<input type="checkbox"/> User groups	<input type="checkbox"/> User roles	<input type="checkbox"/> Users
	<input type="checkbox"/> Media types	<input type="checkbox"/> Scripts	<input type="checkbox"/> 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 ✕

Select

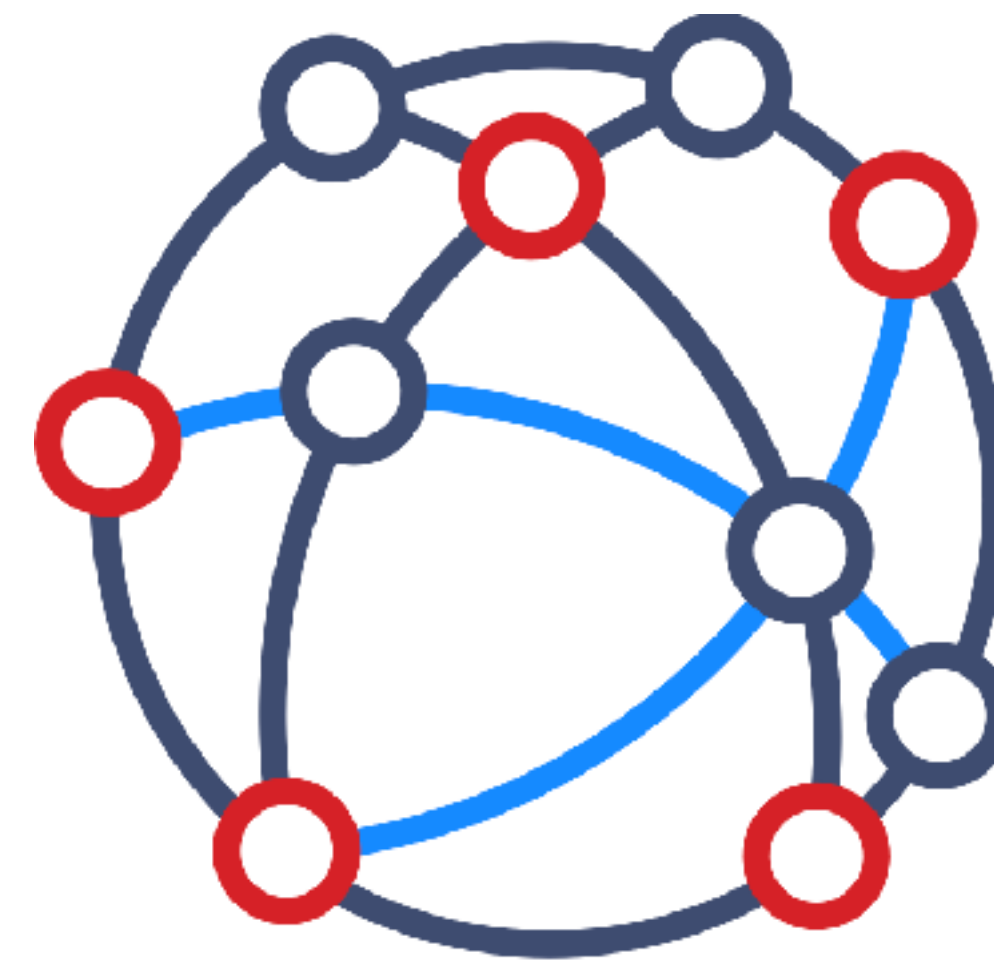
type here to search

Access to actions

☒ Create and edit dashboards and screens

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



MACHINE LEARNING AND STATISTICAL ANALYSIS

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

“Sudden anomaly detected in daily bandwidth usage”

“Unusual weekly CPU usage”



Zabbix 6.0 LTS

Released in 2022



What's next ?

Main vectors

More value for the enterprise

General usability: UX and UI, ease of use

Visualization and reporting

Event and problem handling and processing

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

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

HA, scalability and load balancing

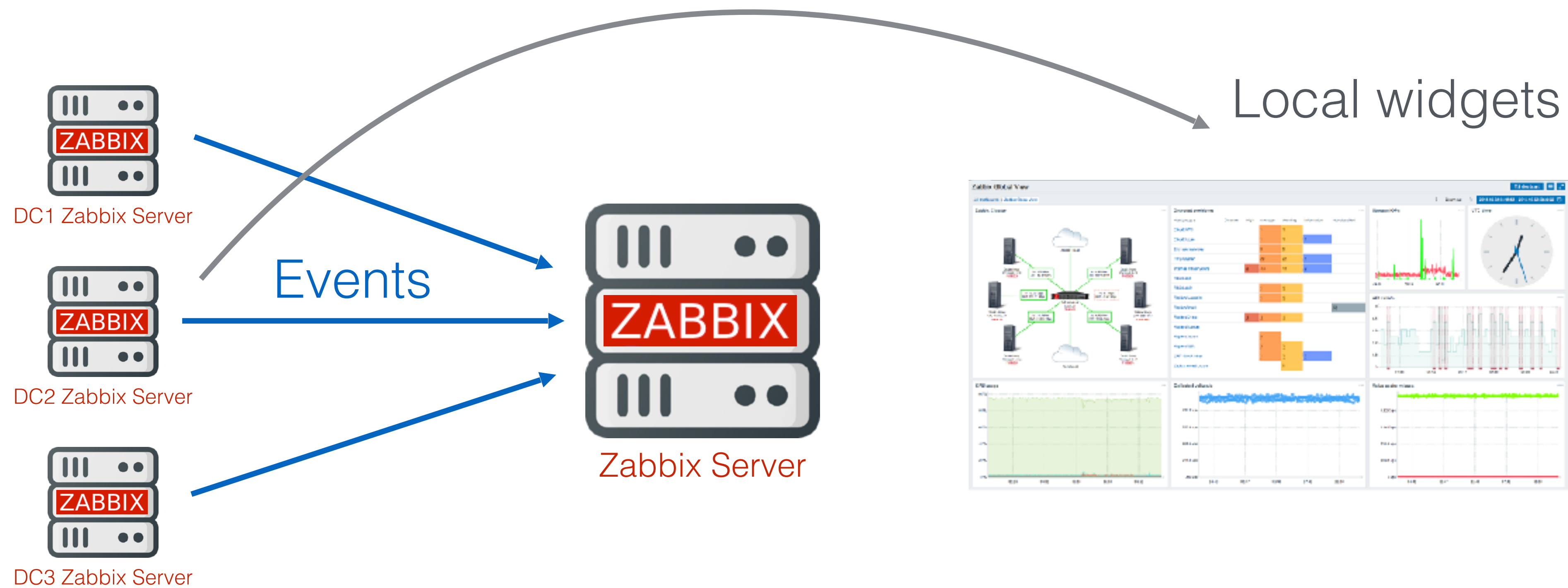
ZABBIX 6.2, 6.4 AND 7.0 LTS

- ✓ External management of users and permissions (AD, SAML)
- ✓ End-user synthetic monitoring
- ✓ Security and compliance monitoring
- ✓ Zabbix for multi-DC scenario



MULTI DC MONITORING

- ✓ Centralized event processing from multiple Zabbix Servers
- ✓ Centralised dashboard



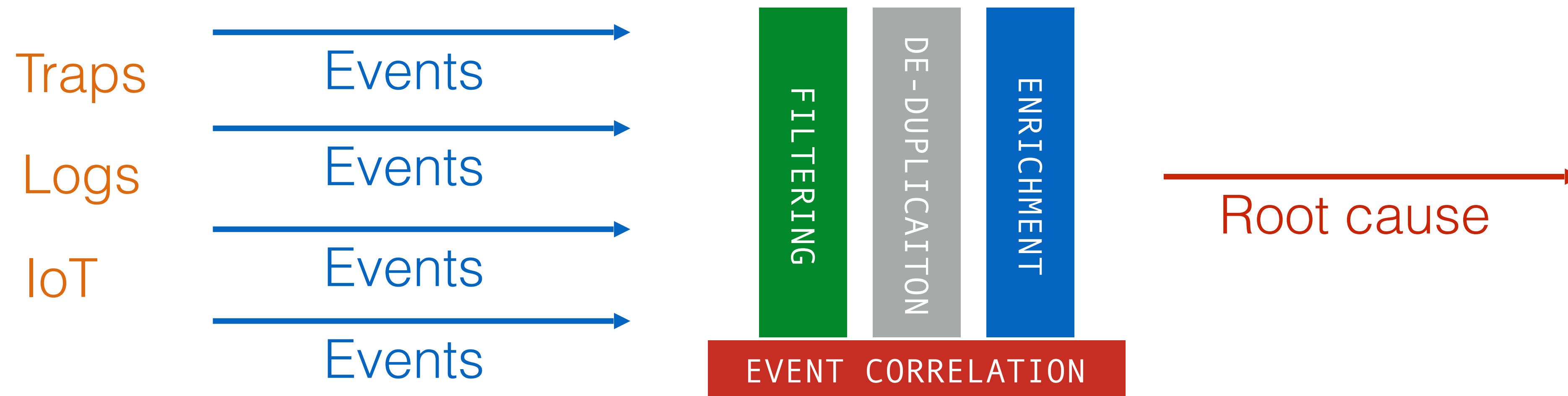
ZABBIX 6.2, 6.4 AND 7.0 LTS

- ✓ Ability to receive events from other systems
- ✓ Advanced visualization
- ✓ Event correlation engine
- ✓ Enterprise alarm console



ADVANCED **EVENT** CORRELATION ENGINE

- ✓ **Tag based** event pre-processing and correlation
 - ✓ Event filtering, de-duplication, enrichment
- ✓ Noise reduction
- ✓ Root cause analysis



ENTERPRISE ALARM (PROBLEM) CONSOLE

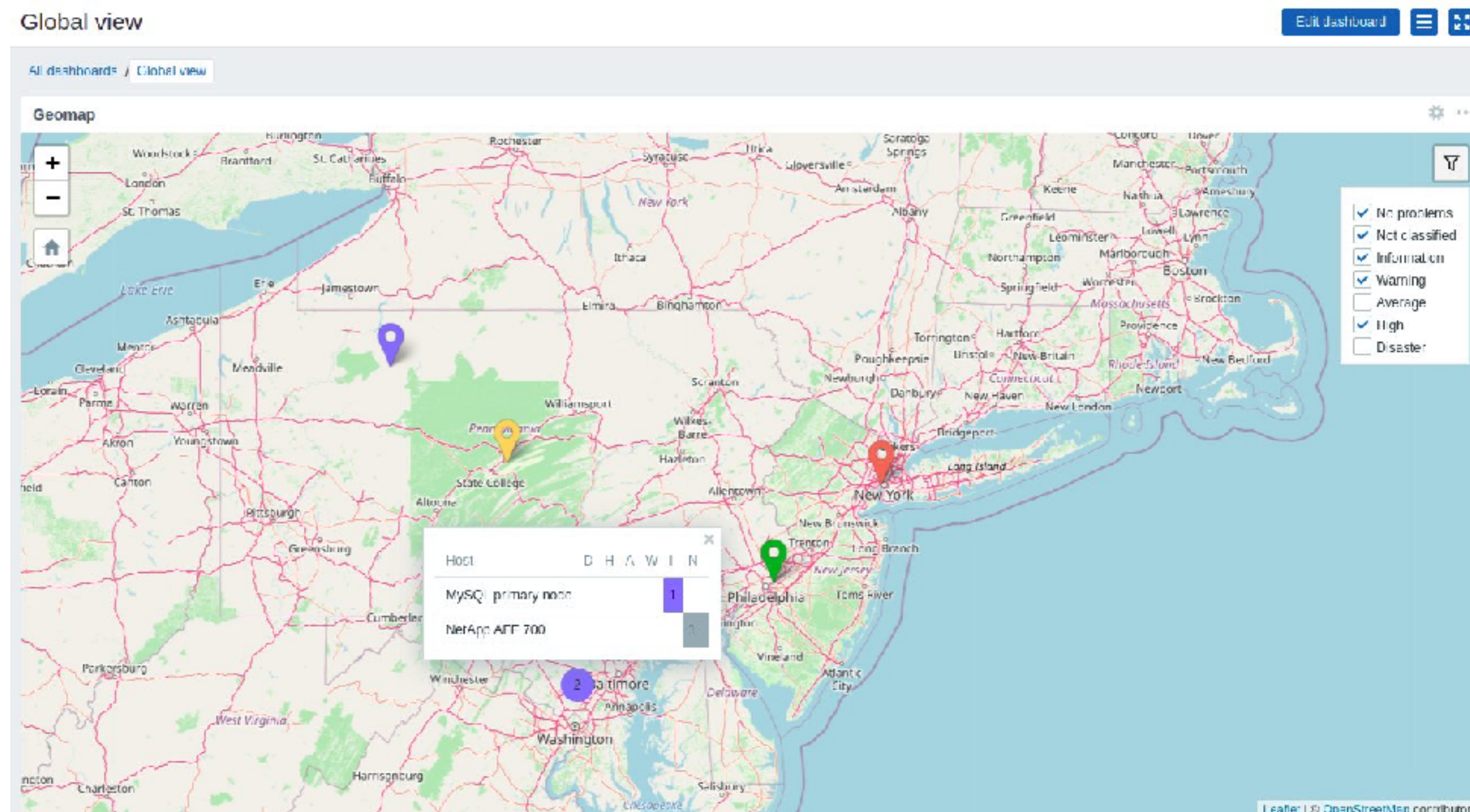
- ✓ Noise reduction (hide, suspend, group), hide dependant problems
- ✓ Optimised for faster problem resolution and collaborative work

Time ▲	<input type="checkbox"/> Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
2019-05-23 16:37:00	<input type="checkbox"/> Average		PROBLEM		Linux907	Zabbix agent on Linux907 is unreachable for 5 minutes	1y 4m 19d	No		Service: Zabbix agent
September										
2019-09-30 12:45:45	<input type="checkbox"/> Information		PROBLEM		AZ M08	Low CPU utilization on host machines	1y 9d	Yes	1	Service: Kubernetes Datacenter: FR2
2019-09-30 12:45:45	<input type="checkbox"/> Information		PROBLEM		AZ M18	Slow query execution time	1y 9d	No	1	Service: AWS Dynam... Datacenter: NY1 Env: Production
2019-09-30 13:45:45	<input type="checkbox"/> Average		PROBLEM		AWS N30	Too many queries per second ?	1y 9d	Yes	1 2	Service: HTTP balancer Datacenter: NY1 Env: Production
2019-09-30 13:45:45	<input type="checkbox"/> Average		PROBLEM		AZ M10	Too many queries per second ?	1y 9d	Yes	2 3	Service: HTTP balancer Datacenter: NY1 Env: Production
October										
2019-10-01 12:25:11	<input type="checkbox"/> High		PROBLEM		AWS N90	Service Redis stopped	1y 8d	Yes	1	Service: Redis Datacenter: FR2 Env: Staging
2019-10-01 12:25:11	<input type="checkbox"/> High		PROBLEM		AWS N34	Service Redis stopped	1y 8d	Yes	1 2	Service: Redis Datacenter: FR2 Env: Staging
Today										
10:48:11	<input type="checkbox"/> Information		PROBLEM		Zabbix server	Too many processes running on Zabbix server	3m 39s	No		Service: Zabbix OS: Linux Performance



NEW VISUALIZATION CAPABILITIES

- ✓ New extended set of widgets for visualization and reporting
- ✓ **TopN** reporting: capacity planning and more
- ✓ Advanced templated (host-level) dashboards



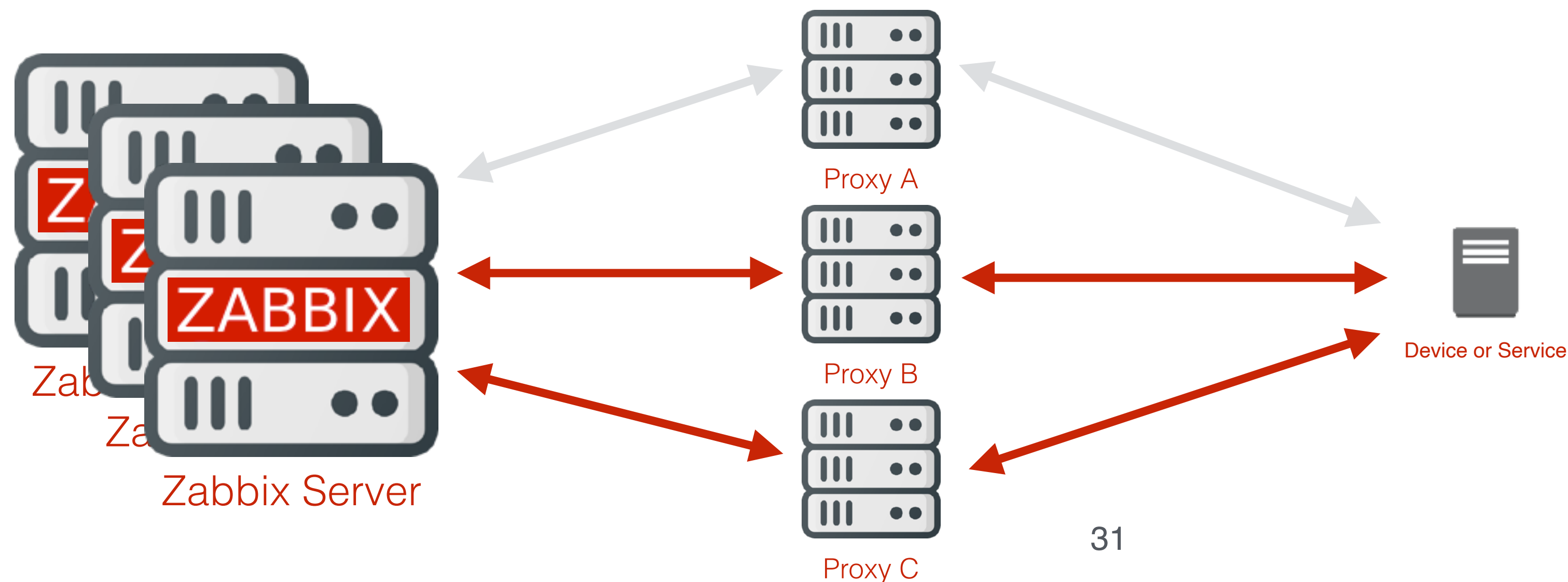
ZABBIX 6.2, 6.4 AND 7.0 LTS

- ✓ APM + tracing
- ✓ Cloud native: HA, performance and scalability
- ✓ Log management
- ✓ **Also:**
 - ✓ Visualization and usability improvements
 - ✓ Out of the box monitoring and integrations



BE CLOUD-NATIVE

- ✓ **Zabbix 5.2:** HA and load balancing for UI and API
- ✓ Scalable history storage
 - ✓ History API for different time-series backends
- ✓ HA and load balancing for Proxies and Servers

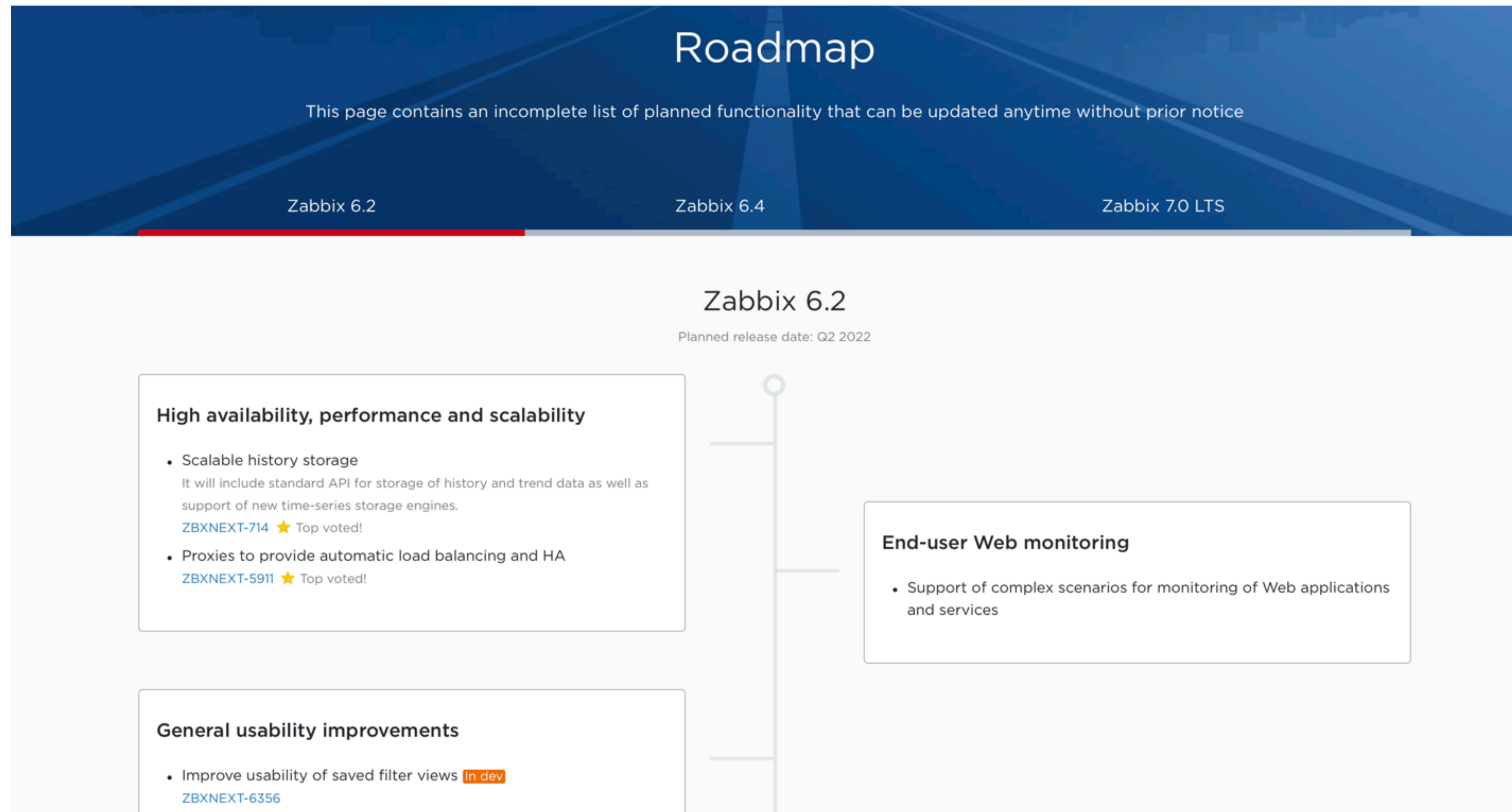


ZABBIX RELEASE SCHEDULE

- ✓ Zabbix 6.2: Q2, 2022
- ✓ Zabbix 6.4: Q4, 2022
- ✓ **Zabbix 7.0 LTS**: Q2, 2023



ZABBIX ROADMAP: LONG TERM & UP-TO-DATE



<https://zabbix.com/roadmap>

ZABBIX

Thank you!

