"THE ROADMAP TO ZABBIX 6.0"

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Let’s talk about monitoring...
SaaS and a typical monitoring is expensive

- Per-metric fees (SaaS)
- License fees (On-premise, SaaS)
- You pay more as your grow
Zabbix gives you a freedom

- No per-metric fees
- No license fees
- Deploy anywhere you want
- Own your data
- Easy migration from on-premise to cloud and vice versa
DEPLOY ON-PREMISE

DEPLOY IN THE CLOUD
Zabbix is an *Universal* Open Source enterprise-level monitoring solution therefore …
Zabbix has all the enterprise grade features included!

SSO, Distributed Monitoring, Oracle backend, advanced security, no data storage limits and much more
BACKED BY ZABBIX COMPANY, 100 ZABBIXERS
200+ ZABBIX PARTNERS AT YOUR SERVICE
BUSINESS BENEFITS

- Umbrella monitoring for the Enterprise
- Best combination: Free and Open Source with 24x7 vendor support Worldwide
- Technical Support: fixed price for unlimited monitoring, extremely low TCO
GLOBAL SUPPORT, ADDITIONAL COURSES

**Global I**

- Request a quote

- Monitored devices and metrics: Unlimited
- Number of incidents: Unlimited
- Support availability: 24 x 7
- Initial response time: 2 hours
- Emergency response time: 60 minutes
- Support contacts: 20
- Supported Zabbix servers: Unlimited
- Support for Zabbix Proxy: Unlimited
- Legal entities covered: 5

**Automation and Integration with Zabbix API**

- The course is designed to provide a detailed and in-depth study of Zabbix API functionality, like import host groups, generate reports, or integrate with other systems.
- 1 day

**Advanced Zabbix Data Pre-processing**

- The course will cover how to extract and transform information from different sources using Zabbix built-in functionality - without using external tools or scripts.
- 1 day

**Advanced Zabbix Security Administration**

- The course will cover how to protect Zabbix internal communications and secure sensitive information like user credentials or encryption keys.
- 1 day

**Advanced Problem and Anomaly Detection with Zabbix**

- The course is fully dedicated to problem detection, from creating simple triggers to using new long-term analytics functions.
- 1 day

**Price**

- € 490
- Price does not include VAT

**Apply for course**

**Program description**
Zabbix is all about monitoring!
BY MONITORING WE UNDERSTAND

☐ How fast we detect a potential problem

☐ In order to achieve that we need to have:

☐ collection and processing of any data any way we want

☐ real-time problem prediction, detection and remediation if possible

☐ ability to detect root cause of the problem

☐ ability to provide extra information (alerting, visualization) to simplify troubleshooting
Strategy
Be Free and Open Source

Make monitoring super flexible
Make monitoring secure & consistent
Make monitoring scalable
Make monitoring easy to use
Quick recap of Zabbix 4.2, 4.4 and 5.0
Zabbix 4.2
April, 2019

- High frequency monitoring with throttling
- Data collection: HTTP agent, Prometheus
- Preprocessing: validation and JavaScript!
- Preprocessing by Proxies for scalability
- Enhanced tag management
Zabbix 4.4

September, 2019

Most advanced monitoring agent: Zabbix Agent2

Web hooks for alerting and notifications

Support of TimescaleDB

Built-in knowledge base for metrics and triggers

Standard for Zabbix Templates
Redesign of Zabbix UI and numerous of usability improvements

Support of compression for TimescaleDB

UI to handle millions of devices

New set of templates and integrations
Zabbix 5.2

More than 35 new features and functional improvements
SYNTHETIC MONITORING

- Support of complex multi-step scripted data collection
- Advanced availability checks
- Complex interaction with different HTTP APIs
STORAGE OF SECRETS IN THE VAULT

- All sensitive information is kept outside of Zabbix in a secure place: HashiCorp Vault
- Therefore no secret data is stored in Zabbix DB
- Sensitive data: passwords, API tokens, user names, etc
ZABBIX INSIGHTS

- Ability to analyze long term data efficiently using new trigger functions
- Zabbix will provide you with information about anomalies
- More value out of Zabbix trend data
Average number of transactions increased by 24% in September
“Number of new user registrations is down 12% last week“
GRANULAR CONTROL OF USER PERMISSIONS

- Customer portal, read only users
- 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
IOT MONITORING

- Support of modbus and MQTT protocols
- Monitoring of sensors, hardware equipment
- Integration with building management systems, factory equipment, IoT gateways
LOAD BALANCING FOR UI AND API
LOAD BALANCING FOR UI AND API

☐ Horizontal scaling for Zabbix UI and API
Zabbix 5.4 & 6.0
Out of the box monitoring and alerting
OFFICIAL SOLUTIONS FOR MONITORING AND ALERTING

https://www.zabbix.com/integrations
Making a platform for high quality solutions
Monitoring

redis

elasticsearch

ClickHouse

NGINX

Windows

HAProxy

Microsoft SQL Server

MySQL

PostgreSQL

etcd
Tags for Everything
DONE: Supported for templates, hosts, host prototypes, triggers

Item applications will be replaced by tags
Event

correlation
ADVANCED EVENT CORRELATION ENGINE

- Tag based event correlation
- Event filtering, de-duplication
- Root cause analysis
- Impact analysis
Discovery and
Cloud monitoring
DISCOVERY AND CLOUD MONITORING

- **DONE:** Significant improvements of pre-processing, tag for host prototypes, interface-less hosts, UI
- Out of the box monitoring of AWS, Azure and GCP services
- Monitoring of Kubernetes
- Several missing things:
  - Support of cloud authentication
  - Triggers for discovered cluster nodes
  - More flexible discovery
HA, Performance and Scalability
BE CLOUD-NATIVE

- **DONE:** 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

![Diagram of Zabbix architecture with HA and load balancing for Proxies and Servers](image)
Reporting and Visualization
REPORTING AND VISUALIZATION

☑️ DONE: pre-defined filters

☑️ ALMOST DONE: unification of screens and dashboards

☑️ Scheduled report generation

☑️ Extended set of dashboard widgets

☑️ Modules for extending widget functionality
Baseline Monitoring
DONE: Zabbix Insights for long term analysis of data

Automatic thresholds for problem and anomaly detection

AI and ML methods for data analysis
Roadmap

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

General directions
- Synthetic monitoring
- Advanced event correlation engine: ability to perform event filtering, aggregation and root cause analysis
- Keep extending Zabbix monitoring, automatic problem detection, alerting and visualization capabilities
- Keep making Zabbix as modular and flexible as possible
- Make Zabbix truly horizontally scalable monitoring solution ready for the most demanding workloads
- Make it simpler for end users by improving UI

Synthetic monitoring
- Support of data collection using complex custom logic: a new metric type "Script" will allow multi-step scenarios for data collection and service checks written in JavaScript

Smart problem and anomaly detection
- Baseline monitoring: new algorithms for data processing to allow automatic problem and anomaly detection based on analysis of historical data. No manual setting of thresholds will be needed anymore

Enhanced discovery for efficient monitoring of cloud services
- Ability to create triggers able to select and analyse data for a given trigger tag

https://www.zabbix.com/roadmap
THANK YOU!

LEARN MORE ABOUT ZABBIX 5.2 AT THE SUMMIT!