

# Zabbix 8.0 – 1. časť

5.5.2026

Stanislav Ťažiar



axians

## STANISLAV ŤAŽIAR

CONSULTANT SENIOR

ZABBIX CERTIFIED EXPERT



Mobil: +421 905 210 301  
E-mail: [stanislav.taziar@axians.sk](mailto:stanislav.taziar@axians.sk)  
Web: <https://www.axians.sk/portfolio/monitorovanie-it/>  
Trainings and exams: <https://www.axians.sk/zabbix-training-center/>  
Consulting: <https://www.axians.sk/kontaktujte-nas/>



axians

**ZABBIX**

PREMIUM DELIVERY  
PARTNER

# Axians-Zabbix partnership



## Axians-Zabbix partnership



axians

ZABBIX

PREMIUM DELIVERY  
PARTNER

ZABBIX

TRAINING PARTNER

Axians Slovakia

**10 rokov Premium partner**

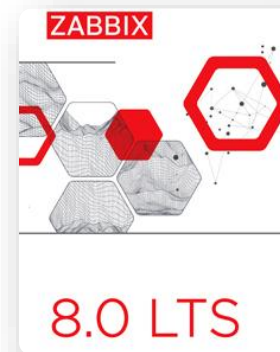
**ako jediná spoločnosť na Slovensku**



# Webináre – jar 2026

- 3.3.2026 - LLD - nesting a nová metodika discoveringu
- 10.3.2026 - Webhook ako integračný nástroj
- 31.3.2026 - Zabbix developer - tvorba pluginov pre Zabbix agenta 2
- 22.4.2026 - VMware – monitoring virtualizácie detailne
- **5.5.2026 - Zabbix 8.0 – 1. časť**
- 26.5.2026 - Zabbix developer – tvorba widgetov pre dashboardy
- 9.6.2026 - Zabbix 8.0 – 2. časť

axians



# Zabbix 8.0 – 1. časť

5.5.2026

Stanislav Ťažiar



# Agenda

1. Pokročilé spracovanie udalostí
2. OpenTelemetry, NetFlow a streaming protokoly
3. Užívateľské rozhranie
4. Ďalšie vylepšenia
5. Widgety
6. Živé demo
7. Ako získať ďalšie informácie



axians

**ZABBIX**

PREMIUM DELIVERY  
PARTNER

# Pokročilé spracovanie udalostí



**AI**

- Podpora MCP (Model Context Protocol)

## In design **Complex Event Processing (CEP)**

- Náhrada Correlation Engine
- Single event processing
- Multiple event processing



# Complex Event Processing (CEP)

## Single event processing

- Filtering
- Normalization
- Tag and severity manipulation
- Suppressing and closing events
- Closing older events
- Anonymization



# Complex Event Processing (CEP)

## Multiple event processing

- Root cause and symptoms
- De-duplication
- Time-window based logic
- Complex pattern matching rules
- Complex correlation rules
- JavaScript logic
- Enables SIEM



# Complex Event Processing (CEP)

Correlation Engine (Event correlation):

- Končí vo verzii 9.0
- Nebude dostupný automatický upgrade
- Potrebné prepracovať pravidlá do CEP manuálne

The background features a complex network visualization with glowing blue and purple nodes and connecting lines. Various circular icons are scattered throughout, representing different sectors: a stethoscope (healthcare), a classical building (education), a stack of books (research), a bar chart (analytics), a cloud with a server (IT), a Wi-Fi symbol (connectivity), a hand holding a pen (writing/management), a play button (media), a gear (industry), a shopping cart (retail), a factory (manufacturing), a building (real estate), and a globe (global).

axians

**ZABBIX**

PREMIUM DELIVERY  
PARTNER

# OpenTelemetry, NetFlow a streaming protokoly

In design

## OpenTelemetry data collection

- Užívateľské transakcie, mikroslužby a pod.
- Zber dát
- Zobrazenie pre vyhľadávanie a vizualizáciu
  - OpenTelemetry data visualization
- Data storage – pre ukladanie a prácu s veľkým objemom real-time streaming/time-series/log údajov

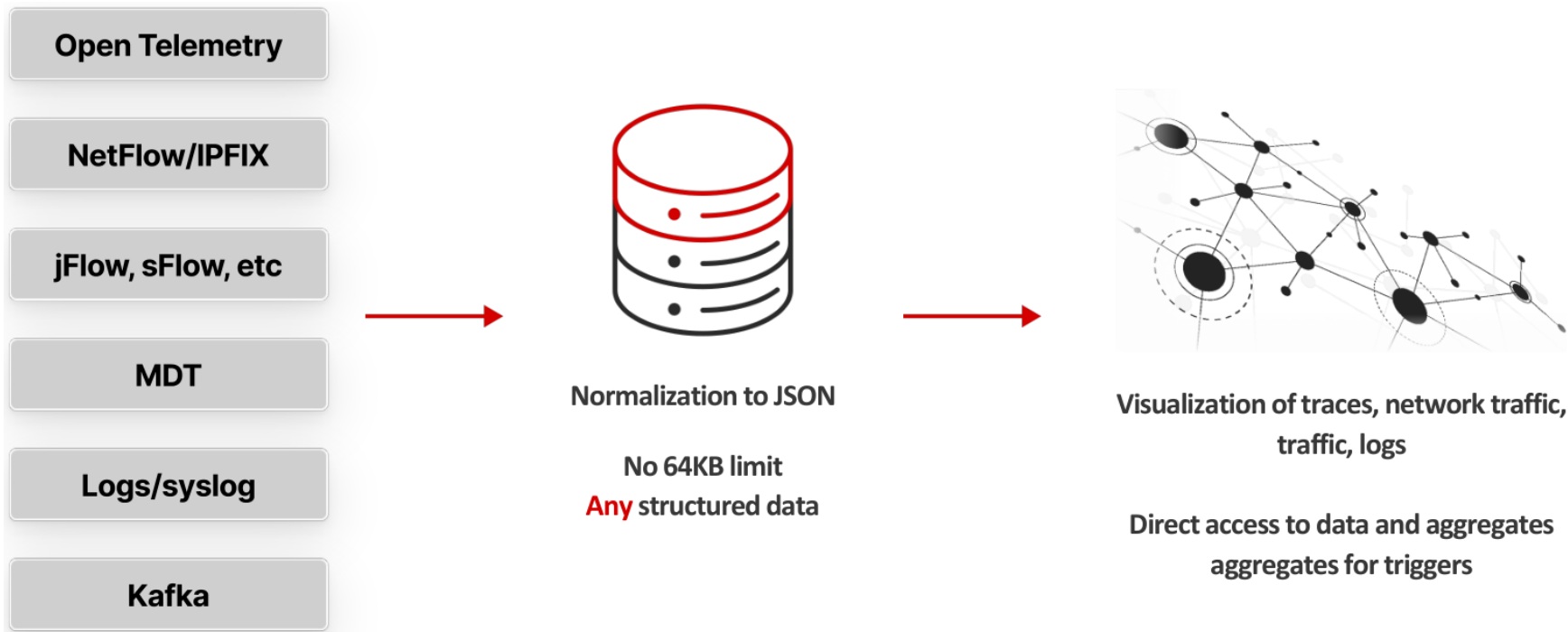


## NetFlow a streaming protokoly

- Podrobný monitoring využívania pásma, identifikácia najväčších spotrebiteľov, sledovanie komunikácie medzi zariadeniami, ...
- Podpora streaming protokolov veľkých výrobcov sieť. hardvéru
- Zber dát
- Zobrazenie pre vyhľadávanie a vizualizáciu
- Data storage – pre ukladanie a prácu s veľkým objemom real-time streaming údajov



# Zber a spracovanie štruktúrovaných dát





# Vyhľadávanie a vizualizácia

Trace ID: 45607994598546
Logs Metrics
✕

Service	Operation	Start time	Tags	Duration
HTTP GET 15 <span style="color: red;">2</span>	/api/orders	2025-04-09 03:04:39 PM	class: os env: prod version: 1.2.3 ...	1s
Zeta Service 45	Subscription Management Service	2025-04-09 03:02:30 PM	target: someusefultag env: staging ...	24h
Nu Service 23 <span style="color: red;">1</span>	Backup Service	2025-04-09 03:01:00 PM	target: someusefultag env: prod ...	60s
Theta Service 32 <span style="color: red;">5</span>	Load Balancing Service	2025-04-09 02:55:02 PM	target: someusefultag env: dev ...	1h
Mu Service 18	Inventory Management Service	2025-04-09 02:44:35 PM	class: os env: prod version: 2.3.1 ...	30s
Redis Cache 8	GET user:12345	2025-04-09 02:43:12 PM	dtz redis env: prod cluster: main ...	5ms
PostgreSQL DB 12	SELECT * FROM orders WHERE status = ?	2025-04-09 02:42:45 PM	dtz postgres query: select ...	150ms
Kafka Producer 6	send message to orders-topic	2025-04-09 02:41:30 PM	messaging: kafka topic: orders ...	12ms
Elasticsearch 14 <span style="color: red;">1</span>	search products	2025-04-09 02:40:15 PM	search: elasticsearch index: products ...	89ms
MongoDB 9	findOne user_profiles	2025-04-09 02:39:22 PM	dtz mongodb collection: profiles ...	23ms
Lambda Function 25 <span style="color: red;">3</span>	process-payment	2025-04-09 02:38:45 PM	serverless: aws runtime: nodejs ...	2.3s
API Gateway 19 <span style="color: red;">1</span>	POST /api/v1/checkout	2025-04-09 02:37:18 PM	gateway: aws method: post ...	456ms
S3 Storage 11	PUT object invoice-2025-04-09.pdf	2025-04-09 02:36:33 PM	storage: s3 bucket: invoices ...	234ms
RabbitMQ 7	publish notification	2025-04-09 02:35:55 PM	queue: rabbitmq exchange: notifications ...	8ms
Memcached 4	SET sessionabc123	2025-04-09 02:34:41 PM	cache: memcached hit: 3600 ...	3ms
Nginx Proxy 13 <span style="color: red;">2</span>	proxy_pass to backend	2025-04-09 02:33:28 PM	proxy: nginx upstream: backend ...	67ms
Prometheus 8	scrape metrics	2025-04-09 02:32:15 PM	monitoring: prometheus target: app ...	45ms
Docker Container 5	container health check	2025-04-09 02:31:02 PM	container: docker status: healthy ...	15ms
Kubernetes Pod 16 <span style="color: red;">1</span>	pod lifecycle management	2025-04-09 02:29:47 PM	k8s: pod namespace: default ...	1.2s
Istio Service Mesh 9	service-to-service auth	2025-04-09 02:28:33 PM	mesh: istio mTLS: enabled ...	18ms

**Span tree** <

- HTTP GET: /api/orders 15
  - http.server.request 1.0s
  - Authentication middleware 2
    - auth.middleware.verify 850ms
  - Service operation 5
    - http.server.request 600ms
      - Cache lookup 1
        - cache.redis.get 700ms
      - Query database 2
        - db.query.select 250ms
      - SELECT operation 1
        - db.sql.execute 900ms
      - Process data 1
        - data.processor.transform 250ms
    - Response serialisation 2
      - http.response.serialize 600ms

Timeline visualization showing durations for each operation in the span tree. The x-axis represents time from 0ms to 1.0s. The y-axis lists the operations and their durations.



## Ukladanie údajov



JSON

Small



Large



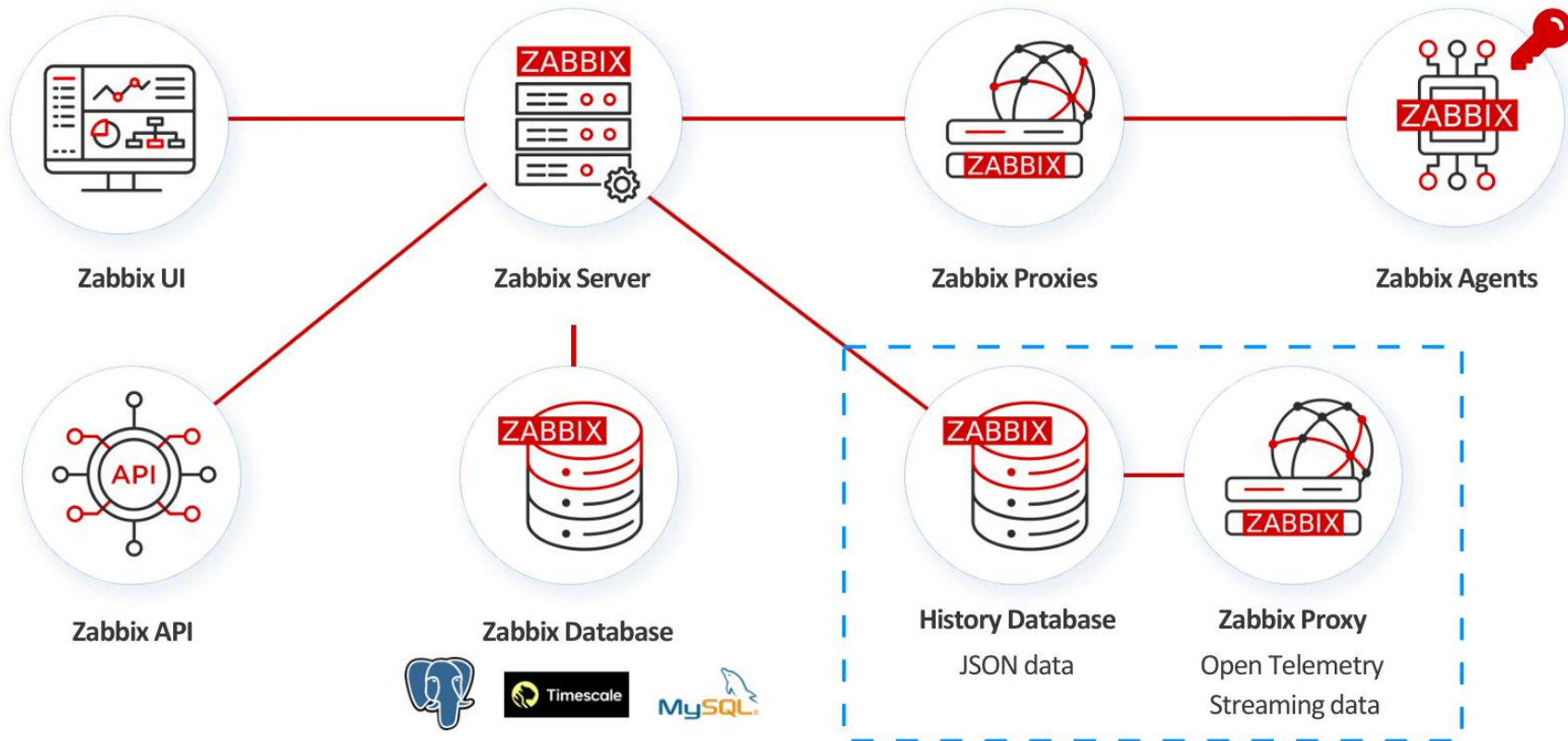
ClickHouse



elastic



# Škálovateľná architektúra





axians

**ZABBIX**

PREMIUM DELIVERY  
PARTNER

# Užívateľské rozhranie



# Užívateľské rozhranie

## Prispôsobiteľné zobrazenia In dev

<input type="checkbox"/>	Time ▼	Severity ▼	Recovery time	Status	Info	Host ▼	Problem ▼	Duration	Update	Actions	Tags	Tags duplicate
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Not classified		PROBLEM		Zabbix server test ab1	Zabbix server test ab1	1M 2d 21h	<a href="#">Update</a>		class: os target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Not classified		PROBLEM		Website monitor	Website monitor	1M 2d 21h	<a href="#">Update</a>		target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Not classified		PROBLEM		AB test 01	AB test 01	1M 2d 21h	<a href="#">Update</a>		target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Information		PROBLEM		Website monitor	Website monitor	1M 2d 21h	<a href="#">Update</a>		target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Information		PROBLEM		Website monitor	Website monitor	1M 2d 21h	<a href="#">Update</a>		class: os target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Information		PROBLEM		Website monitor	Website monitor	1M 2d 21h	<a href="#">Update</a>		target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Information		PROBLEM		Latest data	Zabbix server: Proxy group [Proxy load balancing]: Availability below 75%	1M 2d 21h	<a href="#">Update</a>		target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Information		PROBLEM		Latest data	Zabbix server: Proxy group [Proxy load balancing]: Availability below 75%	1M 2d 21h	<a href="#">Update</a>		class: os target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Warning		PROBLEM		Zabbix server	Zabbix server	1M 2d 21h	<a href="#">Update</a>		target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Warning		PROBLEM		Zabbix server	Zabbix server	1M 2d 21h	<a href="#">Update</a>		target: someusefultag target: s	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Average		PROBLEM		Zabbix server	Zabbix server	1M 2d 21h	<a href="#">Update</a>		target: someusefultag target: s	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	High		PROBLEM		Zabbix server	Zabbix server	1M 2d 21h	<a href="#">Update</a>		class: os target: someusefultag	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	High		PROBLEM		New macro functions test	New macro functions test	1M 2d 21h	<a href="#">Update</a>		target: someusefultag class: s	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2025-04-09 03:04:39 PM	Disaster		PROBLEM		New macro functions test	New macro functions test	1M 2d 21h	<a href="#">Update</a>		class: os target: someusefultag	<input checked="" type="checkbox"/>

**Column list**

- Time
- Severity
- Recovery time
- Status
- Info
- Host
- Problem
- Operational data
- Trigger expression
- Duration
- Update
- Actions
- Tags
- Tags duplicate
- Tag value

[Reset to default](#)

## In dev Mobilná aplikácia

- iOS a Android
- Notifikácie
- Problémy a historické data
- Jednoduchý manažment problémov
- Zabbix aj Zabbix Cloud
- Neskôr agregované zobrazenie z viacerých Zabbix serverov



The background features a large, glowing hand shape composed of a complex network of blue and white lines and dots, resembling a digital or neural network. Various circular icons are scattered throughout the hand, representing different industries and services such as healthcare, education, finance, technology, and logistics. The overall color palette is dominated by deep blues and purples, with bright highlights from the digital particles.

axians

**ZABBIX**

PREMIUM DELIVERY  
PARTNER

# Ďalšie vylepšenia



## Vylepšenia pluginov

- Ceph plugin
  - 2 módy:
    - native – Ceph API
    - restful – Ceph RESTful API
  - `Plugins.Ceph.Default.Mode=native`
- MongoDB plugin
  - Plná podpora pre konvenčné parsovanie MongoDB URI, podpora pre obe schémy `mongodb://` a `mongodb+srv://`
  - Automatické objavovanie MongoDB replica set nodes
  - Podpora pre x509 autentifikáciu



## Vylepšenia pluginov

- Oracle plugin
  - šifrované pripojenie do Oracle DB cez TCPS (TLS)
- Redis plugin
  - TLS
  - Startup-time validation
- Test execution mode for loadable plugins
  - -t (--test)



## Ďalšie vylepšenia

- Prístupové práva podľa proxy a proxy skupín **In dev**
- Upload SSO certifikátov z UI **Ready**
- Zdieľanie dát pre zber viacerých metrík (session keys)
- Možnosť modifikovať tagy pre LLD triggery **In dev**  
**Ready**
- Zobrazenie zdedených tagov pre metriky a triggery **Ready**
- JSON data typ **In dev**  
**Ready**
- Inline validácia všetkých formulárov v UI



## Ďalšie vylepšenia

- Convert to JSON checkbox v discocery rule typu HTTP agent
- Podpora LLD makier v
  - JSONPath preprocessing parameters
  - JSONPath field for custom LLD macros
- Optimalizácia Zabbix procesov



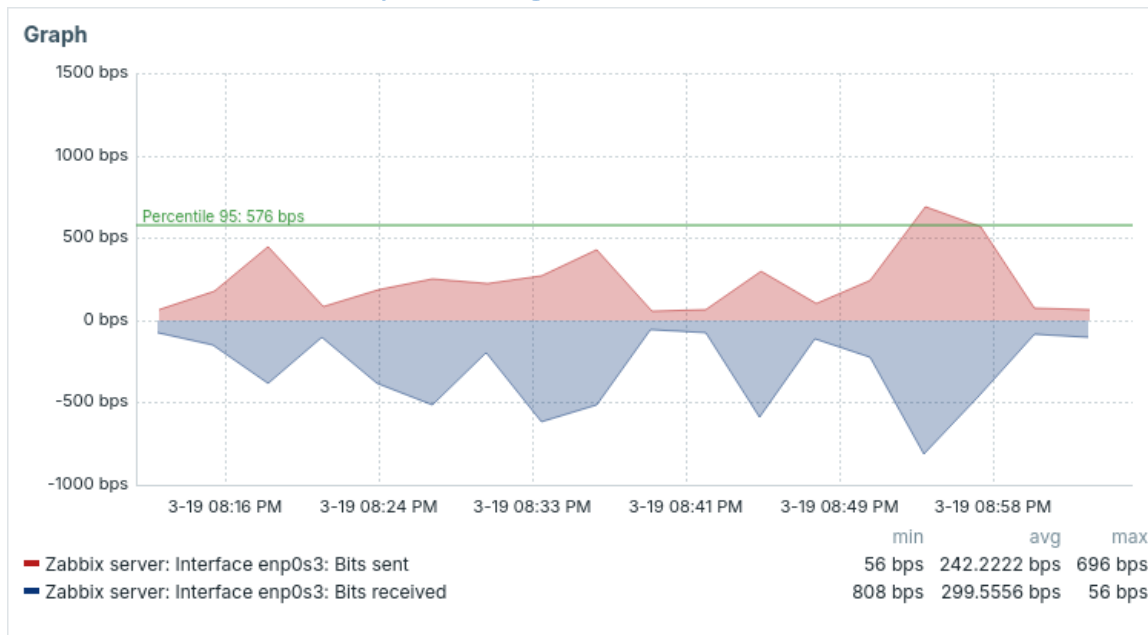
# Widgety

- Import a export dashboardov **Ready**
- Ovládanie klasteringu objektov v Geo mapách **Ready**
- Scatter plot widget **Ready**
- Agregácia stĺpcov v Top items **Ready**
- Graph
  - Usporiadanie itemov v tooltip, zvýraznenie grafu pri pohybe v tooltip, odstránený limit na počet itemov v tooltip, zobrazenie Host names v tooltip a legende
  - Invert values v grafe
  - Rozšírenie popisu v Gauge a Item value widgetoch z 2k na 64k



# Widgety

- Y-axis inversion for the Graph widget



The background features a large, stylized hand composed of a dense network of blue and white lines and dots, resembling a digital or neural network. The hand is positioned on the left side, with fingers pointing towards the right. Various circular icons are scattered throughout the network, representing different industries and technologies such as healthcare, education, finance, and logistics. The overall color palette is dominated by deep blues and purples, with bright highlights from the digital particles.

axians

**ZABBIX**

PREMIUM DELIVERY  
PARTNER

Živé demo



axians

**ZABBIX**

PREMIUM DELIVERY  
PARTNER

**Ako získať ďalšie  
informácie**



# Axians - Zabbix Training Center

Zabbix 7.0/7.4 – kompletne portfólio školení a certifikácií

Otvorené termíny Q3 a Q4 2026!





# Axians - Zabbix Training Center

Zabbix 7.0/7.4 – kompletne portfólio školení a certifikácií  
Otvorené termíny Q3 a Q4 2026!

Zľava **5%** na  
jedno vybrané  
školenie pre  
každého  
účastníka našich  
webinárov!





# Axians - Zabbix Training Center

Novinka v portfóliu školení:

**LLD DRIVEN AUTOMATION FOR ZABBIX**

**2.6.2026**

Zľava **5%** na  
jedno vybrané  
školenie pre  
každého  
účastníka našich  
webinárov!





# Recertifikácie na verziu 7.0

Pripravte sa s nami na príchode verzie 8.0 a recertifikačný proces - ponuka Upgrade školení na verziu 7.0

Zľava **5%** na jedno vybrané školenie pre každého účastníka našich webinárov!

ZCS Upgrade



ZCP Upgrade



ZCE Upgrade



Ste majiteľmi certifikátov na verziu 5.0 alebo starších?  
Kontaktujte nás.

[zabbix@axians.sk](mailto:zabbix@axians.sk)





# Zabbix Academy

Zabbix akadémia – jednoduchové školenia a ďalšie krátke kurzy dostupné v podobe videozáznamov. Dostupné v anglickom jazyku.



Pre informácie o priebehu kurzov v rámci Zabbix akadémie, organizácii a zľavách nás neváhajte kontaktovať

[zabbix@axians.sk](mailto:zabbix@axians.sk)



# Konzultácia, upgrade, problém...?

## Zabbix konzultácia zdarma

Kontaktujte nás, sme pripravení vám kedykoľvek pomôcť. Navyše, prvú konzultáciu poskytujeme zdarma. Cez platformu MS Teams nám môžete predstaviť váš problém a spoločne sa pokúsime nájsť riešenie. Vyplňte formulár a my vás budeme kontaktovať, aby sme si dohodli termín vašej konzultácie zdarma.

\* Polia označené hviezdičkou sú povinné.

OSLOVENIE ▼

MENO

axians

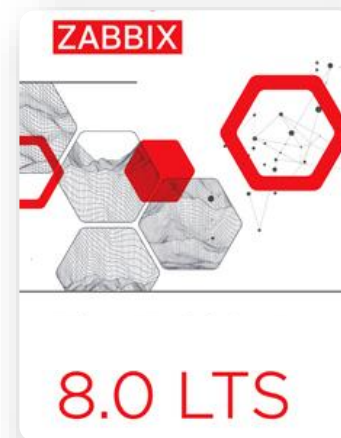




# Webináre – jar 2026

- 3.3.2026 - LLD - nesting a nová metodika discoveringu
- 10.3.2026 - Webhook ako integračný nástroj
- 31.3.2026 - Zabbix developer - tvorba pluginov pre Zabbix agenta 2
- 22.4.2026 - VMware – monitoring virtualizácie detailne
- 5.5.2026 - Zabbix 8.0 – 1. časť
- **26.5.2026 - Zabbix developer – tvorba widgetov pre dashboardy**
- 9.6.2026 - Zabbix 8.0 – 2. časť

axians



axians

ZABBIX

PREMIUM DELIVERY  
PARTNER

Otázky

???



axians

## STANISLAV ŤAŽIAR

CONSULTANT SENIOR

ZABBIX CERTIFIED EXPERT



Mobil: +421 905 210 301  
E-mail: [stanislav.taziar@axians.sk](mailto:stanislav.taziar@axians.sk)  
Web: <https://www.axians.sk/portfolio/monitorovanie-it/>  
Trainings and exams: <https://www.axians.sk/zabbix-training-center/>  
Consulting: <https://www.axians.sk/kontaktujte-nas/>