



¿QUE HAY DE NUEVO EN ZABBIX 5.4?

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¿Qué hay de nuevo en Zabbix 5.4?

NUESTRO CAMINO HACIA 5.4

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✓ **Zabbix 3.4.x** (Aug/2017)

- New Dashboards
- Preprocessing Changes
 - Json Path / XML XPath
- Dependent Items
- Official Templates

✓ **Zabbix 4.0.x** (Oct/2018)

- Maintenance on Trigger
- Check Now button
- HTTP Item Type
- Exporter (events, trends, history)

✓ **Zabbix 4.2.x** (Mar/2019)

- Prometheus Integration
- Throttling & Heartbeat
- JavaScript Support
- Preprocessing on Proxy
- LLD with JSON

✓ **Zabbix 4.4.x** (Oct/2019)

- Zabbix Agent2
- Webhooks
- TimescaleDB
- CSV to JSON

✓ **Zabbix 5.0.x** (May/2020)

- SAML & Single Sign-on
- Ciphers & Crypto
- Test Button
- Frontend Modules
- Compression for TimescaleDB

✓ **Zabbix 5.2.x** (Oct/20)

- Synthetic monitoring
 - New Item 'Script'
- HashCorp Vault
- Modbus & MQTT
- Zabbix Insights
 - trendavg / trenddelta / etc

https://www.zabbix.com/release_notes

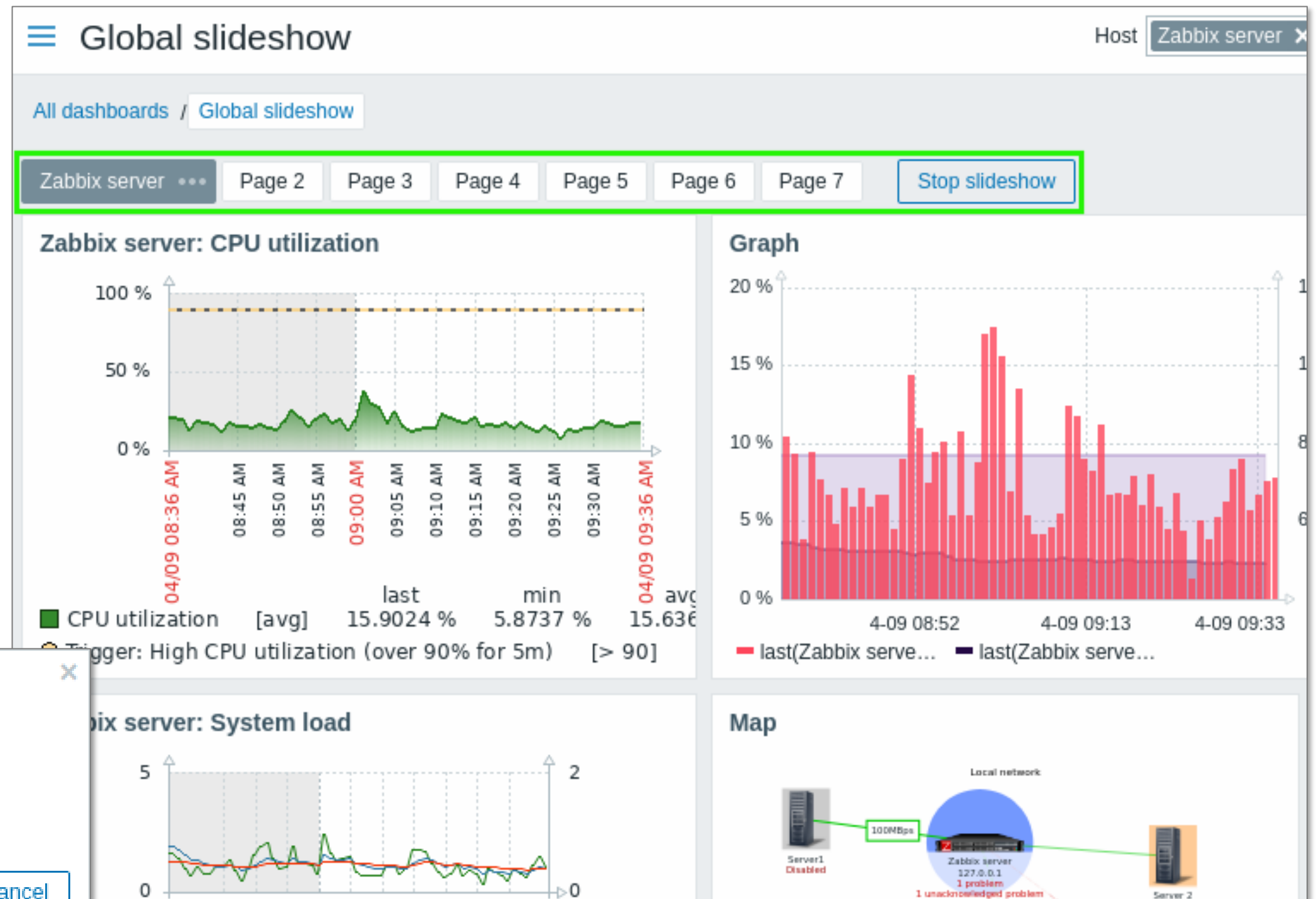
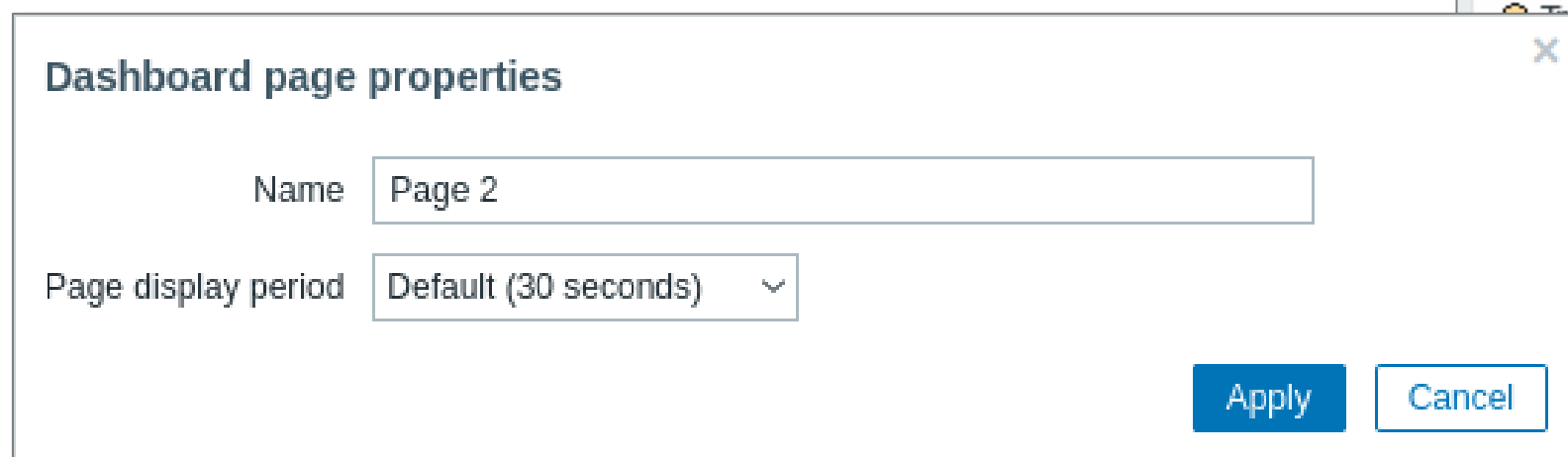
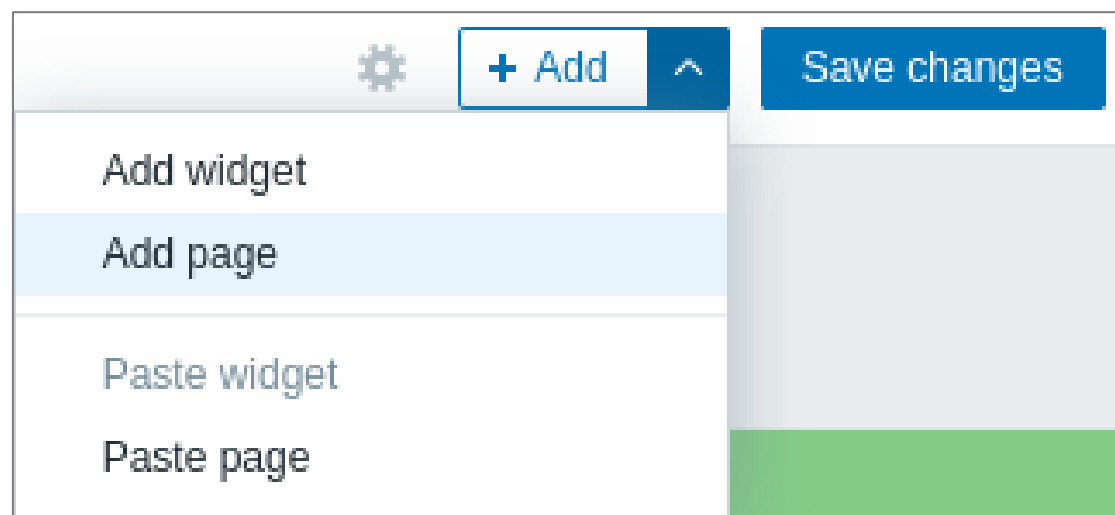


¿Qué hay de nuevo en Zabbix 5.4?

MULTI-PAGE DASHBOARDS

MULTI-PAGE DASHBOARDS

- ✓ Support Multiple Pages
- ✓ Used on Slideshow
- ✓ Screens & Dashboards unification



<https://www.zabbix.com/documentation/5.4/manual/introduction/whatsnew540>

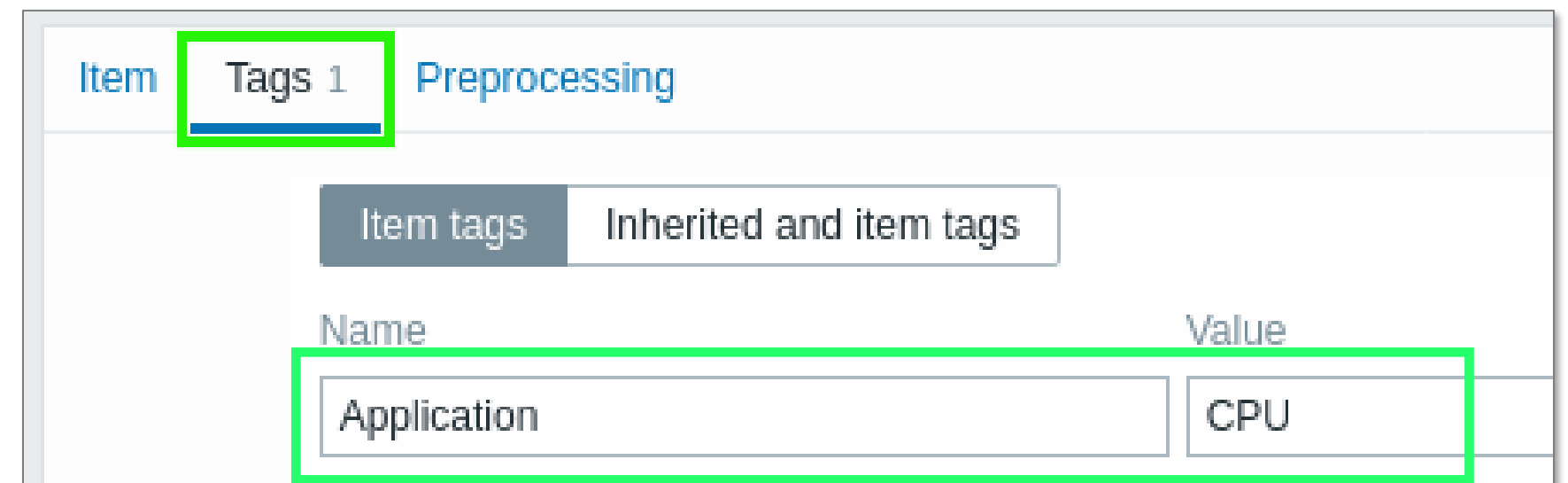
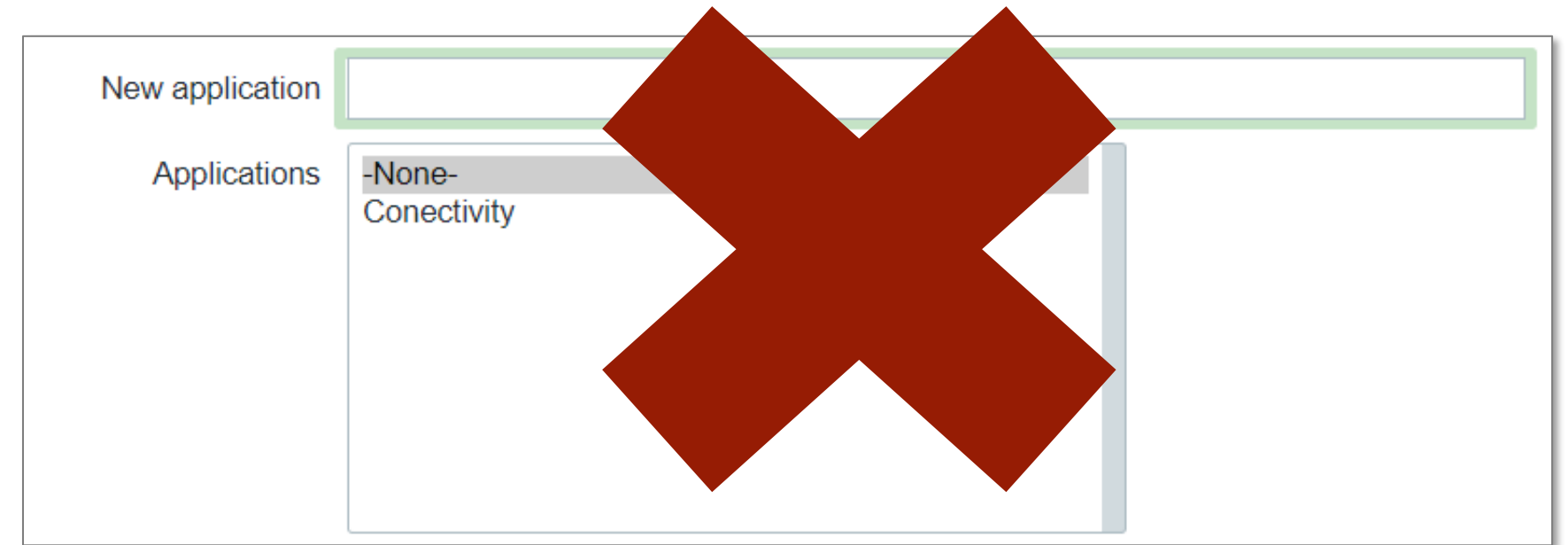


¿Qué hay de nuevo en Zabbix 5.4?

ITEM TAGS REPLACED *"APPLICATIONS"*

ITEM TAGS HAVE REPLACED "APPLICATIONS"

- ✓ Item tags are supported in
 - Items, item prototypes and web scenarios
- ✓ Fields related to applications have been removed
- ✓ Existing applications will be transformed into item tags on upgrade
- ✓ Good to Triggers & Events





¿Qué hay de nuevo en Zabbix 5.4?

API TOKENS

API TOKENS

- ✓ Support of API authorization tokens
- ✓ No more user and password to use API
- ✓ API Tokens can Expire / Disable
- ✓ Assigned to specific user
- ✓ New user role: manage API tokens

API tokens ▾

* Name

* User

Description

Set expiration date and time ☒

* Expires at

Enabled ☒

Name: New API Token

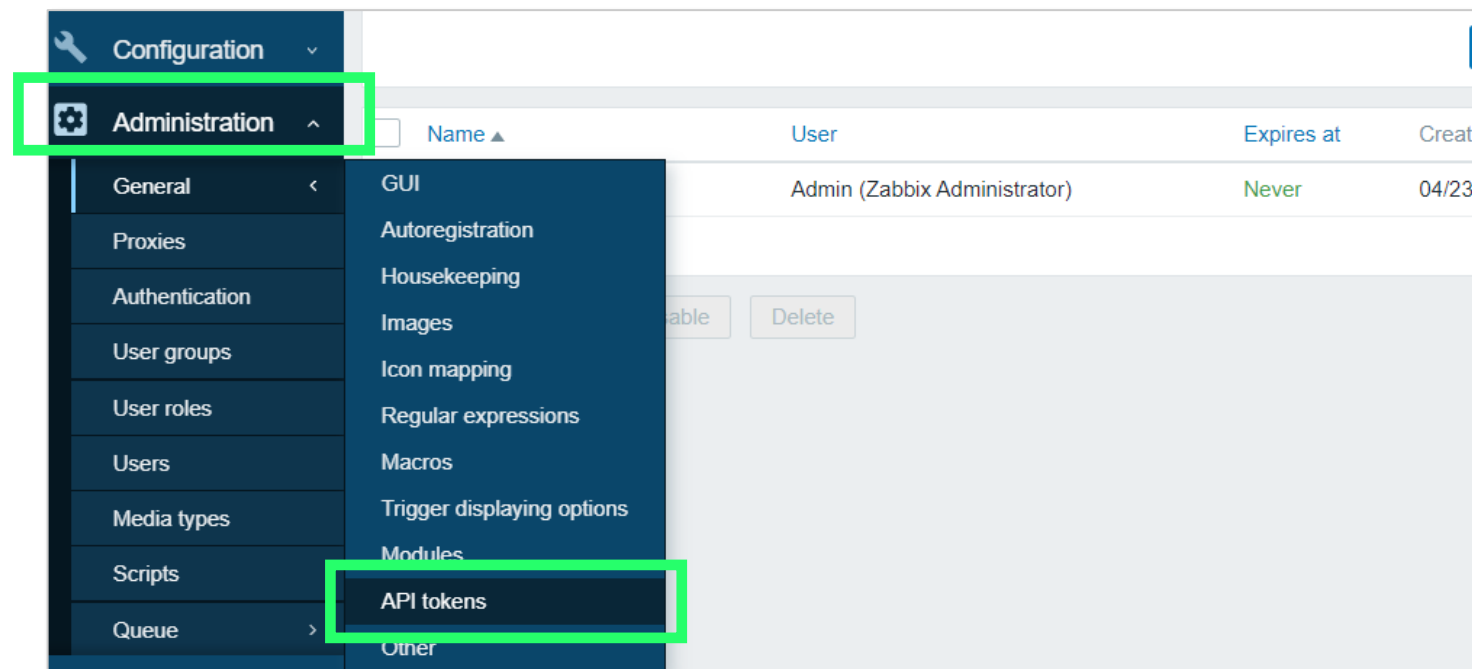
User: Admin (Zabbix Administrator)

Auth token: d6e19d9122cdb9e329822240ef30e4e3cda49af4b908417853df6b4045dfabd0

Expires at: 05/31/2021 12:00:00 AM

Description: Token to integrate with ServiceNow

Enabled: ☒



<https://www.zabbix.com/documentation/5.4/manual/introduction/whatsnew540>

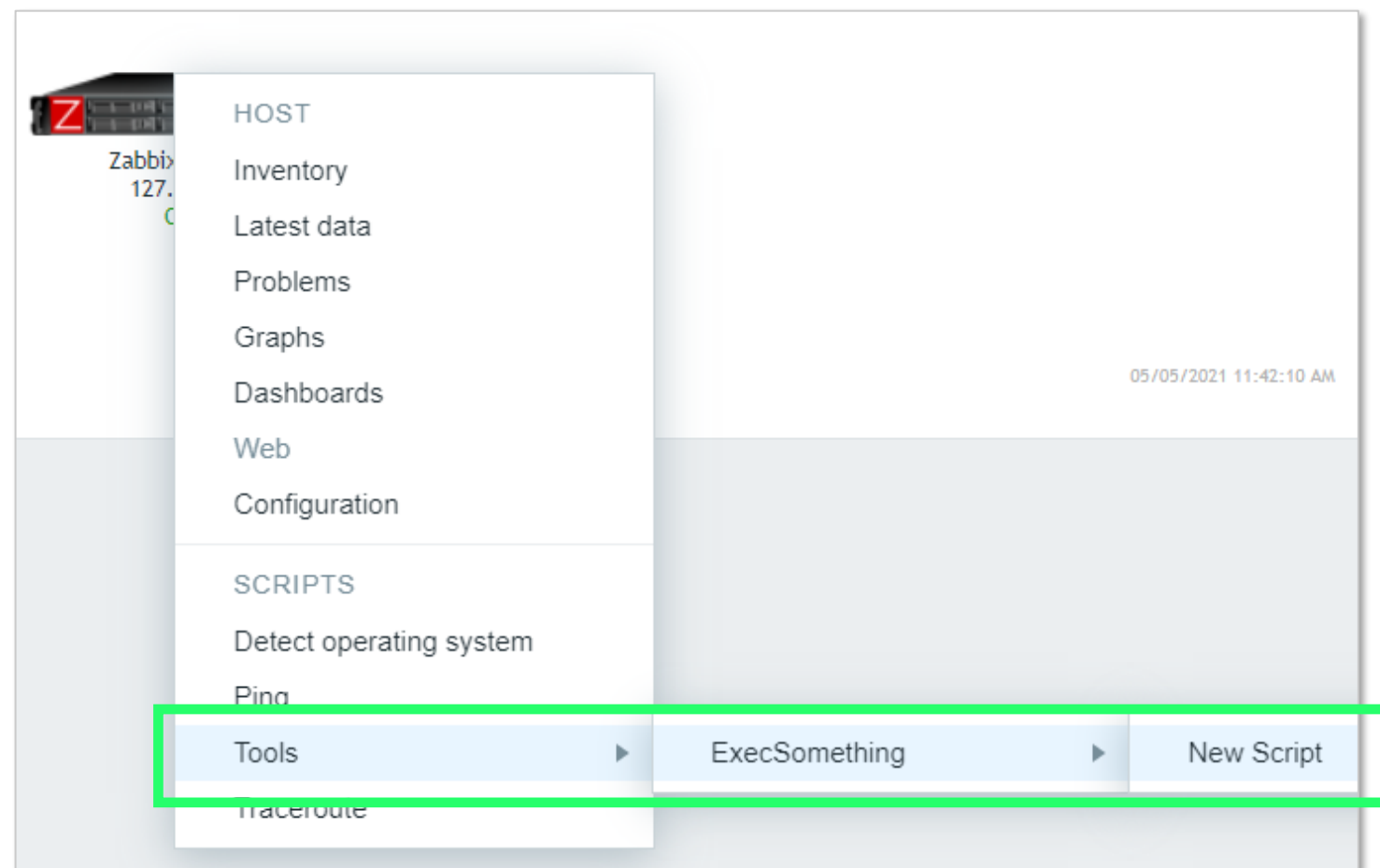


¿Qué hay de nuevo en Zabbix 5.4?

JAVASCRIPT IN GLOBAL SCRIPTS

JAVASCRIPT GLOBAL SCRIPTS

- ✓ Useful to integrations (CMDB, Tickets, Orchestration)
- ✓ Provide more tools to NOC
- ✓ Fetch from external Sites/APIs



* Name

Scope ☐ ☒ ☐

Menu path

Type ☒ ☐ ☐ ☐ ☐

Name	Value	Action
host_name	{HOST_HOST}	Remove
user	{USER.USERNAME}	Remove
token	9ewil4oe7tgf	Remove
Add		

* Script

* Timeout

https://www.zabbix.com/documentation/5.4/manual/web_interface/frontend_sections/administration/scripts



¿Qué hay de nuevo en Zabbix 5.4?

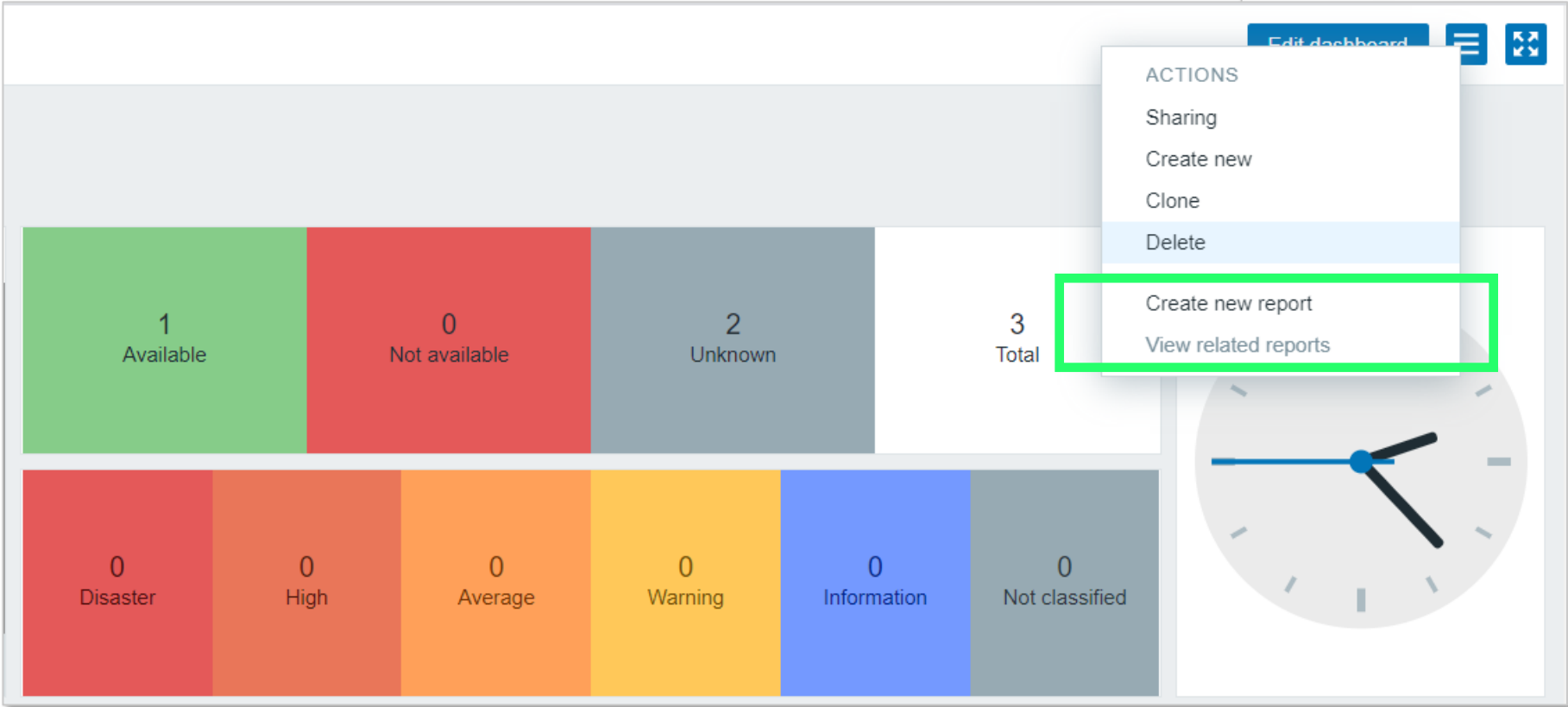
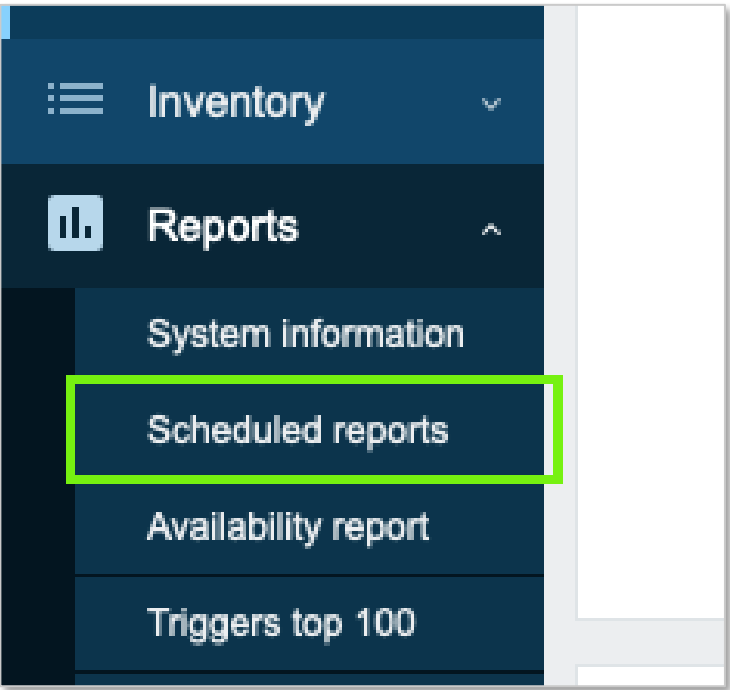
SCHEDULED PDF REPORTS

SCHEDULED PDF REPORTS

- ✓ Dashboard can be mailed as PDF reports
- ✓ Can be sent: Daily, Weekly, Monthly, Yearly
- ✓ Introduce **Zabbix Web Service**
 - Planned additional functionality in the future

Owner	Name	Dashboard	Period	Cycle	Start time	Start date	End date	Subject	Message
Admin (Zabbix Administrator)		type here to search	Previous day	Daily	00:00	YYYY-MM-DD	YYYY-MM-DD		

Recipient	Generate report by	Status	Action
Admin (Zabbix Administrator)	Admin (Zabbix Administrator)	Include	Remove



<https://www.zabbix.com/documentation/5.4/manual/config/reports>



¿Qué hay de nuevo en Zabbix 5.4?

UNIFIED SYNTAX FOR EVERYTHING

UNIFIED SYNTAX FOR EVERYTHING

✓ Unified and much more powerful functional syntax for

- Triggers, Aggregated & Calculated (new functions are coming on 6.0)

✓ Principles for the new syntax

- As simple as possible for new users of Zabbix
- Support expressions as function parameters like `func3(10*func1(), func2(), 123)`

✓ New syntax Examples

	Current syntax	New syntax
TRIGGERS	<code>{host:key.func(params)}=0</code>	<code>func(/host/key, period, params)</code>
	<code>{host:key.min(#3)}>0 and {host:key.max(1h)}>100</code>	<code>min(/host/key,3)>0 and max(/host/key,1h)>100</code>
	<code>{host:key.last()}>0</code>	<code>last(/host/key)>0</code>
CALCULATED	<code>100*last("vfs.fs.size[/,free]/last("vfs.fs.size[/,total]"))</code>	<code>100*last(/vfs.fs.size[/,free]) / last(/vfs.fs.size[/,total])</code>
	N/A: Calculate aggregate function using filter	<code>sum(/host/vfs.fs.size[*,free], 10m)</code>
AGGREGATE	<code>grpmin["Servers",qps,avg,5m]</code>	<code>min(avg_foreach(/*/qps?[group="Servers"], 5m))</code>
	<code>grpsum["MySQL Servers","vfs.fs.size[/,total]",last]</code>	<code>sum(last_foreach(/*/qps?[group="MySQL Servers"]))</code>

https://www.zabbix.com/release_notes



¿Qué hay de nuevo en Zabbix 5.4?

OTHER NEW FEATURES AND CHANGES

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- ✓ **Scalability**
 - Pollers are disconnected from the database (ZBXNEXT-782)
 - Trend cache for extra performance (ZBXNEXT-6280)
 - Graceful startup when proxies send too much data (ZBXNEXT-6503)
- ✓ **Preprocessing**
 - XML to JSON & pre-processing (ZBXNEXT-5518)
- ✓ **VMWare Monitoring**
 - Improvements (ZBXNEXT-6302, ZBXNEXT-6301, ZBXNEXT-6380, ZBXNEXT-6269, ZBXNEXT-6272)
- ✓ **Security & Roles**
 - Implemented support of negative filtering for tags (ZBXNEXT-6376)
- ✓ **More integrations & Templates**
 - <https://www.zabbix.com/integrations>

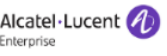
To know about all new features: https://www.zabbix.com/release_notes



¿Qué hay de nuevo en Zabbix 5.4?

OFFICIAL TEMPLATES & INTEGRATIONS

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 .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	 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://www.zabbix.com/integrations>

OFFICIAL TEMPLATES & INTEGRATIONS

Monitoring and Integration Solutions

goog

- Google Apps
- Google Hangouts Chat
- Google Cloud
- Google Maps

All Categories Official Templates Agents API Applications AWS Backups 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

<https://www.zabbix.com/integrations>



¿Qué hay de nuevo en Zabbix 5.4?

EASY DEPLOYMENT

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Zabbix Cloud Images

 AWS	Zabbix Server Mysql + Nginx	 Microsoft Azure	Zabbix Server Mysql + Nginx	 Microsoft Azure	Zabbix Proxy SQLite	 Google Cloud Platform	Zabbix Server Mysql + Nginx
 Google Cloud Platform	Zabbix Proxy SQLite	 DigitalOcean	Zabbix Server Mysql + Nginx	 DigitalOcean	Zabbix Proxy SQLite	 Linode	Zabbix Server Mysql + Nginx
 Oracle Cloud	Zabbix Server Mysql + Nginx	 Red Hat OpenShift	Zabbix Server Mysql + Nginx	 Yandex Cloud	Zabbix Server Mysql + Nginx		

https://www.zabbix.com/cloud_images

EASY DEPLOYMENT

Zabbix Docker Component Repositories

Zabbix Docker hub



Zabbix Server

MySQL



Zabbix Server

PostgreSQL



Zabbix Proxy

SQLite3



Zabbix Proxy

MySQL



Zabbix Frontend

Apache, MySQL



Zabbix Frontend

Apache, PostgreSQL



Zabbix Frontend

Nginx, MySQL



Zabbix Frontend

Nginx, PostgreSQL



Zabbix Agent

TLS encryption



Zabbix Java

Gateway



Zabbix SNMP traps

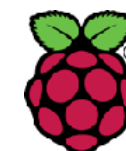
https://www.zabbix.com/container_images

EASY DEPLOYMENT

Choose your platform



ZABBIX VERSION	OS DISTRIBUTION	OS VERSION	DATABASE [?]	WEB SERVER
5.2	Red Hat Enterprise Linux	20.04 (Focal)	MySQL	Apache
5.0 LTS	CentOS	18.04 (Bionic)	PostgreSQL	NGINX
4.0 LTS	Oracle Linux	16.04 (Xenial)		
5.4 (pre-release)	Ubuntu	14.04 (Trusty)		
	Debian			
	SUSE Linux Enterprise Server			
	Raspberry Pi OS			
	Ubuntu (arm64)			



<https://www.zabbix.com/download>

ZABBIX

QUESTIONS?

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ZABBIX

OUR SERVICES

