

ZABBIX

6.0

WORKSHOP
WEEK

DEPLOYING BUSINESS
SERVICE MONITORING WITH
ROOT CAUSE ANALYSIS

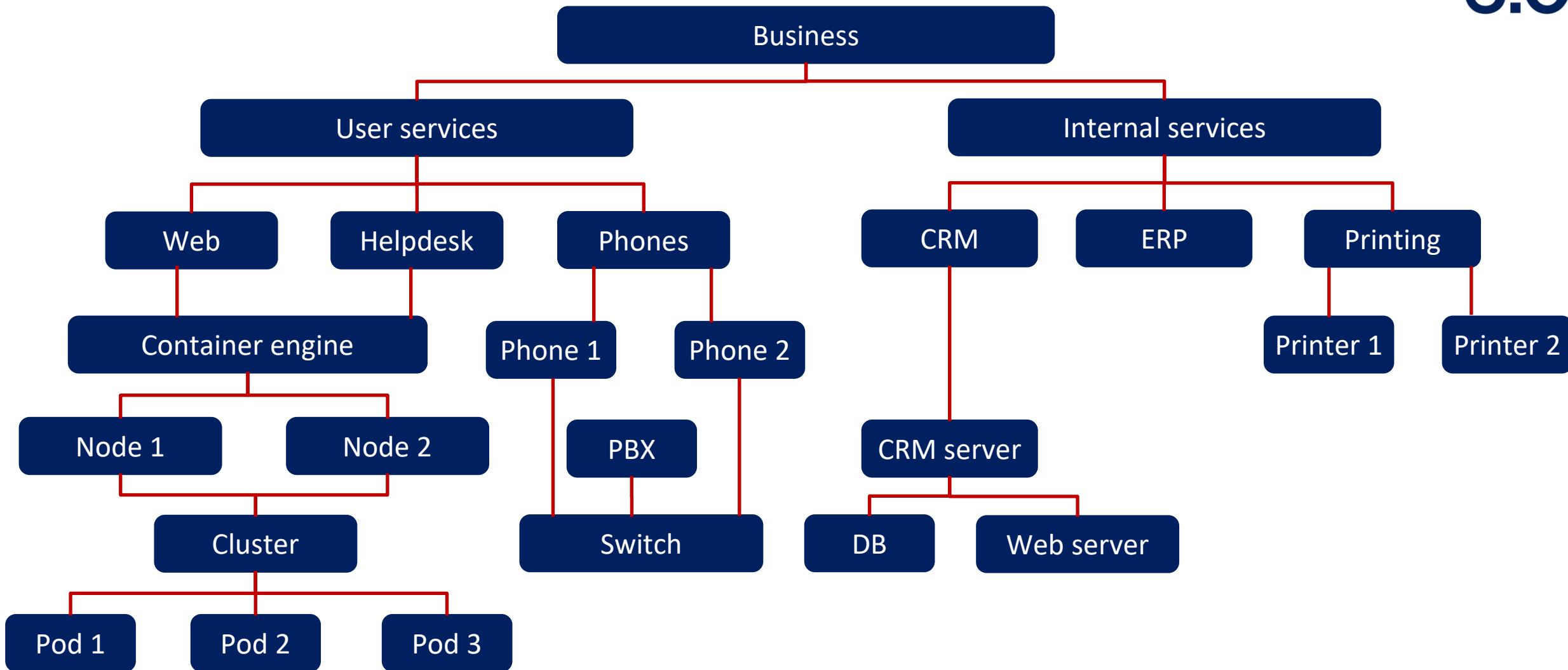


WHAT IS **BUSINESS SERVICE MONITORING**?

Business service monitoring provides you with a possibility to monitor your infrastructure from the business perspective

- ✓ Display business structure using the IT infrastructure
- ✓ Calculate SLA and SLO of various services
- ✓ Show availability of services in use or provided
- ✓ Discover root causes of business impacts
- ✓ Identify the weakest spots

BUSINESS SERVICE EXAMPLE



BUSINESS SERVICE EXAMPLE IN ZABBIX

Which can be direct and informative:

<input type="checkbox"/>	Name	Status	Root cause	Created at	Tags
<input type="checkbox"/>	Monitoring 3	Warning	Zabbix server node 2 is down	2022-02-18	zabbix
<input type="checkbox"/>	Workshop 2	Information	participant-03 not attending	2022-02-18	workshop

Or give you full view:

<input type="checkbox"/>	Parent services	Name	Status	Root cause	Created at	Tags
<input type="checkbox"/>	Monitoring	Database	OK		2022-02-18	zabbix: database
<input type="checkbox"/>	Monitoring	Frontend	OK		2022-02-18	zabbix: frontend
<input type="checkbox"/>	Workshop	Host attendance	OK		2022-02-18	attendance: hosts
<input type="checkbox"/>		Monitoring 3	Warning	Zabbix server node 2 is down	2022-02-18	zabbix
<input type="checkbox"/>	Participant attendance	Participant 01	OK		2022-02-18	attendance: participant
<input type="checkbox"/>	Participant attendance	Participant 02	OK		2022-02-18	attendance: participant
<input type="checkbox"/>	Participant attendance	Participant 03	Warning	participant-03 not attending	2022-02-18	attendance: participant
<input type="checkbox"/>		Workshop 2	Information	participant-03 not attending	2022-02-18	workshop
<input type="checkbox"/>	Zabbix server HA	Zabbix server node 1	OK		2022-02-18	zabbix server: node 1
<input type="checkbox"/>	Zabbix server HA	Zabbix server node 2	Warning	Zabbix server node 2 is down	2022-02-18	zabbix server: node 2

BUSINESS SERVICE EXAMPLE IN ZABBIX

And produce a thorough report on your bussiness objectives:

Monitoring ⚙️ ⋮							VM cluster						
Day	SLO	SLI	Uptime	Downtime	Error budget	Excluded downtimes	Day	SLO	SLI	Uptime	Downtime	Error budget	Excluded downtimes
2022-02-22	100%	N/A	0	0	0		2022-02-20	99.9%	N/A	0	0	0	
2022-02-21	100%	N/A	0	0	0		2022-02-19	99.9%	N/A	0	0	0	
2022-02-20	100%	100	12h 50m 50s	0	0		2022-02-18	99.9%	61.9421	4h 45m 14s	2h 55m 15s	-2h 54m 58s	
2022-02-19	100%	100	1d	0	0								
2022-02-18	100%	100	11h 1m 29s	0	0								

Development environment					Frontend						
Service	SLO	2022-02-18	2022-02-19	2022-02-20	Day	SLO	SLI	Uptime	Downtime	Error budget	Excluded downtimes
Database	100%	100	100	100	2022-02-20	100%	100	12h 50m 50s	0	0	
Frontend	100%	100	100	100	2022-02-19	100%	100	1d	0	0	
Zabbix server HA	100%	58.4717	100	98.3481	2022-02-18	100%	100	10h 53m 6s	0	0	

Displaying 3 of 3 found

ZABBIX WEBINARS

CONFIGURING BUSINESS SERVICE MONITORING WITH ROOT CAUSE ANALYSIS



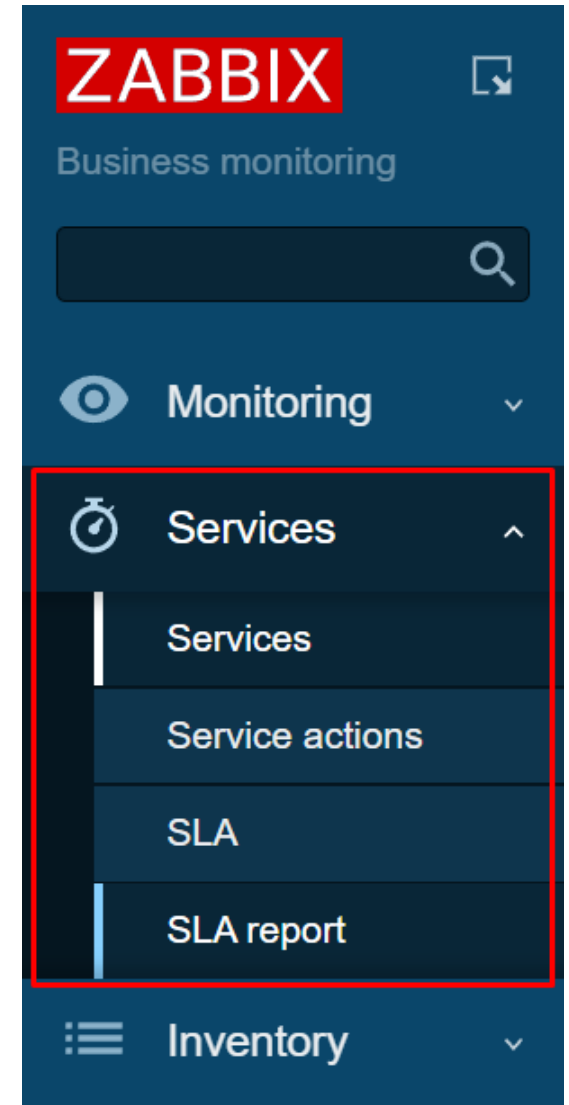
- all our microphones are muted
- ask your questions in Q&A, not in the Chat
- use Chat for discussion, networking or applauses



WHERE TO START **BUSINESS SERVICE MONITORING**?

A new separate Services menu section is now available:

- ✔ Services – your service tree configuration
- ✔ Service actions – defining actions for services
- ✔ SLA – configuring the SLA calculation
- ✔ SLA report – viewing the produced reports



WHERE TO START **BUSINESS SERVICE MONITORING?**

Permissions to services, can be also configured separately, allowing you to create separate roles to manage service monitoring:

Access to services

Read-write access to services None All Service list

type here to search

Read-write access to services with tag

Read-only access to services None All Service list

ZABBIX WEBINARS

CREATING SERVICES



- all our microphones are muted
- ask your questions in Q&A, not in the Chat
- use Chat for discussion, networking or applauses



CREATING SERVICES

We start by making sure we have some hosts, if not we can create some, i.e.:

<input type="checkbox"/>	Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability
<input type="checkbox"/>	Database server	Items 48	Triggers 11	Graphs 6	Discovery 3	Web	database.server:10050		MySQL by Zabbix agent	Enabled	ZBX
<input type="checkbox"/>	Frontend Server	Items 28	Triggers 5	Graphs 5	Discovery 1	Web	web.server:10050		Apache by HTTP	Enabled	ZBX
<input type="checkbox"/>	Zabbix server node 1	Items 130	Triggers 71	Graphs 25	Discovery 4	Web	127.0.0.1:10050		Linux by Zabbix agent, Zabbix server health	Enabled	ZBX
<input type="checkbox"/>	Zabbix server node 2	Items 130	Triggers 71	Graphs 25	Discovery 4	Web	localhost:10050		Linux by Zabbix agent, Zabbix server health	Enabled	ZBX

0 selected Enable Disable Export ▼ Mass update Delete

CREATING SERVICES

Since Business service monitoring is based on tags, make sure to add some unique tags, preferably on the trigger level:

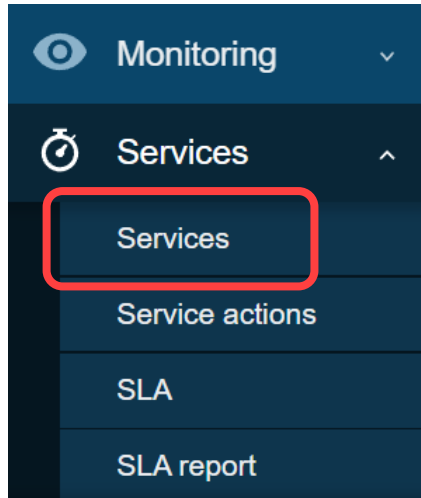
<input type="checkbox"/>	Name ▲
<input type="checkbox"/>	Database server
<input type="checkbox"/>	Frontend Server
<input type="checkbox"/>	Zabbix server node 1
<input type="checkbox"/>	Zabbix server node 2



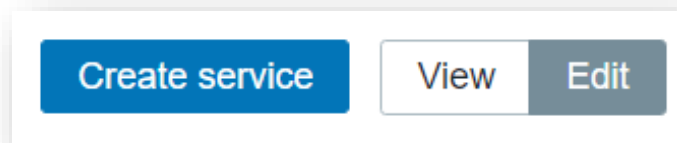
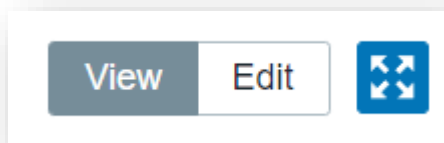
Host	IPMI	Tags 1	Macros	Inventory	Encryption	Value mapping
Name		Value				Action
zabbix		database				Remove
Name		Value				Action
zabbix		frontend				Remove
Name		Value				Action
zabbix		HA node 1				Remove
Name		Value				Action
zabbix		HA node 2				Remove
Add						

CREATING SERVICES

Now we go to the Services, to proceed with the setup:

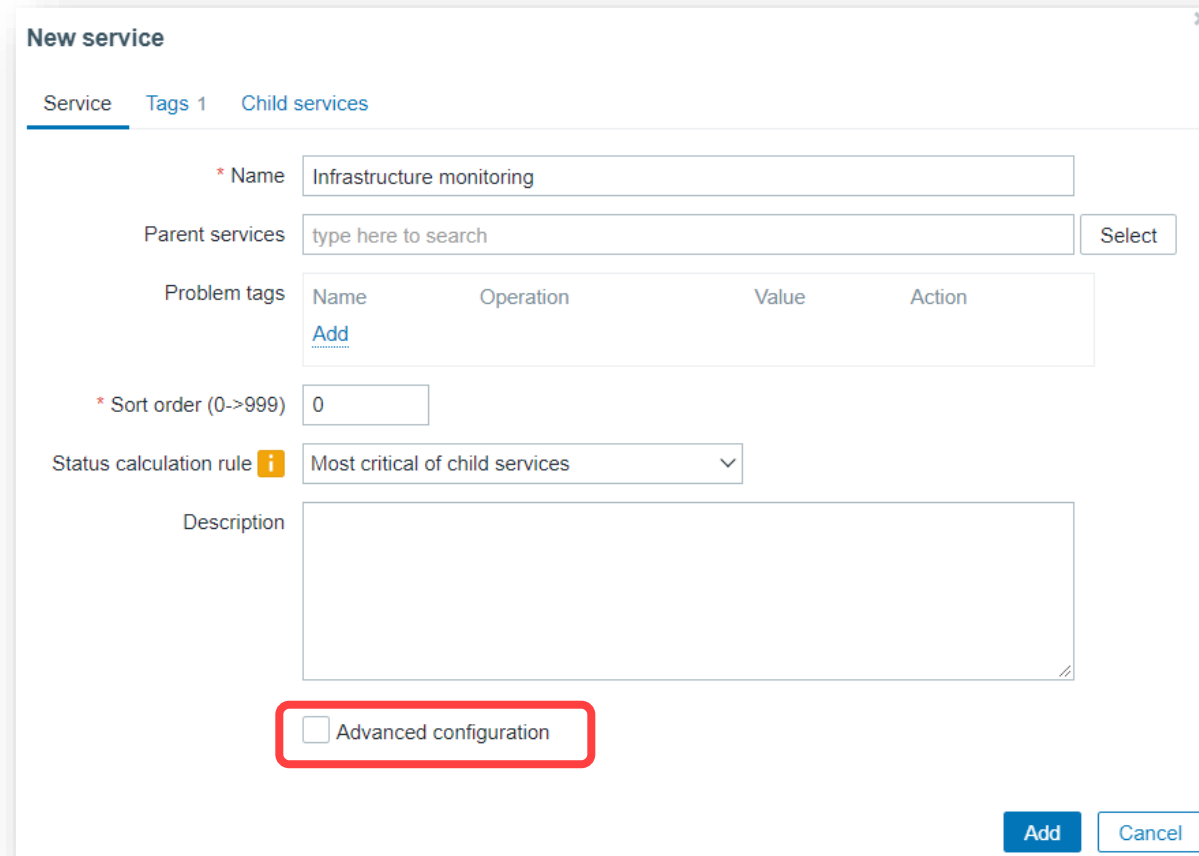


And enable editing mode in upper right part of the screen:

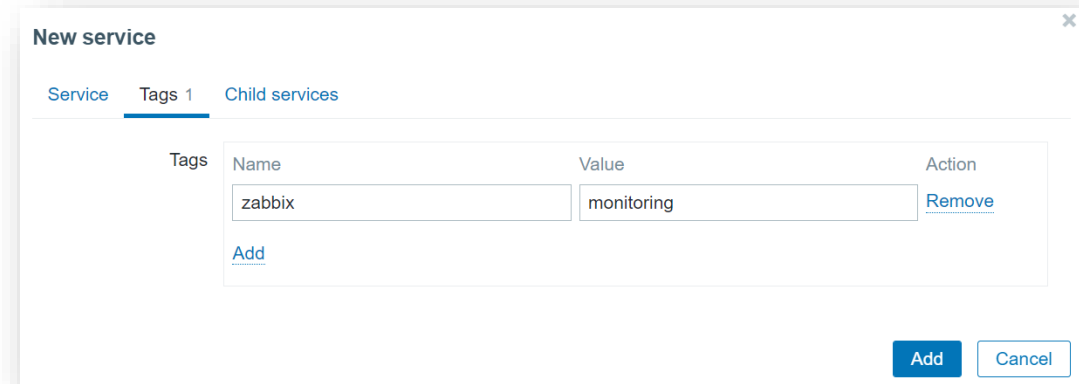


CREATING SERVICES

First create a parent service that will represent it as a whole, in this example this will be infrastructure monitoring. Since it is our parent service, it won't require problems tags and its status will be based on child services:

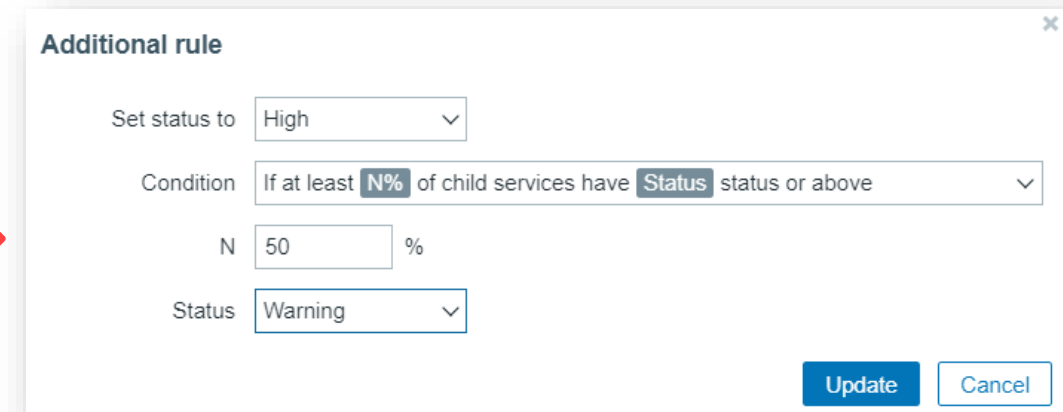


The 'New service' form is shown with the 'Service' tab selected. The 'Name' field contains 'Infrastructure monitoring'. The 'Parent services' field has a search input 'type here to search' and a 'Select' button. The 'Problem tags' section has a table with columns 'Name', 'Operation', 'Value', and 'Action', and an 'Add' link below it. The 'Sort order (0->999)' field contains '0'. The 'Status calculation rule' dropdown is set to 'Most critical of child services'. The 'Description' field is empty. At the bottom, there is a checkbox for 'Advanced configuration' which is currently unchecked and highlighted with a red box. 'Add' and 'Cancel' buttons are at the bottom right.



The 'New service' form is shown with the 'Tags' tab selected. The 'Tags' section has a table with columns 'Name', 'Value', and 'Action'. One tag is present: 'zabbix' with 'monitoring' as the value and a 'Remove' link as the action. There is an 'Add' link below the table. 'Add' and 'Cancel' buttons are at the bottom right.

But we will still add some tags, to mark the service itself



The 'Additional rule' form is shown. The 'Set status to' dropdown is set to 'High'. The 'Condition' dropdown is set to 'If at least N% of child services have Status status or above'. The 'N' field contains '50' and the 'Status' dropdown is set to 'Warning'. 'Update' and 'Cancel' buttons are at the bottom right.

And some advanced configuration

CREATING SERVICES

Now, let's create some child services, by clicking on the parent service name and then clicking on Create service button:

<input type="checkbox"/>	Parent services	Name	Status	Root cause	Created at	Tags
<input type="checkbox"/>		Infrastructure monitoring	OK		2022-02-22	zabbix: monitoring

0 selected Mass update Delete

Following the now standard path



CREATING SERVICES

This, time most of them will have problem tags, since we already created hosts, representing real servers. Remember problem tags must match tags on the problem events:

The 'New service' dialog shows the 'Service' tab selected. The 'Name' field contains 'Frontend'. The 'Parent services' dropdown is set to 'Infrastructure monitoring'. The 'Problem tags' table has one entry: 'zabbix' with the operation 'Equals' and the value 'frontend'. The 'Add' link is visible below the table. At the bottom, the 'Update', 'Clone', 'Delete', and 'Cancel' buttons are present, with the 'Clone' button highlighted by a red rectangle.

Name	Operation	Value	Action
zabbix	Equals	frontend	Remove

The 'New service' dialog shows the 'Service' tab selected. The 'Name' field contains 'Database'. The 'Parent services' dropdown is set to 'Infrastructure monitoring'. The 'Problem tags' table has one entry: 'zabbix' with the operation 'Equals' and the value 'database'. The 'Add' link is visible below the table. At the bottom, the 'Add' and 'Cancel' buttons are present.

Name	Operation	Value	Action
zabbix	Equals	database	Remove

Use the clone button to speed up the process

CREATING SERVICES

As a last service we will Zabbix server cluster with two nodes as child services, which will have some additional rules:

New service

Service Tags 1 Child services

* Name

Parent services
type here to search

Problem tags

Name	Operation	Value	Action
Add			

* Sort order (0->999)

Status calculation rule ⓘ

Description

Created at

Advanced configuration



New additional rule

Set status to

Condition

N

Status

CREATING SERVICES

And then we can add each HA node to newly created Zabbix cluster:

Service

Service Tags 1 Child services

* Name

Parent services ✕
type here to search

Problem tags

Name	Operation	Value	Action
<input type="text" value="zabbix"/>	<input type="text" value="Equals"/> ▾	<input type="text" value="HA node 1"/>	Remove

[Add](#)

Tags

Name	Value	Action
<input type="text" value="zabbix server"/>	<input type="text" value="node 1"/>	Remove

[Add](#)

Service

Service Tags 1 Child services

* Name

Parent services ✕
type here to search

Problem tags

Name	Operation	Value	Action
<input type="text" value="zabbix"/>	<input type="text" value="Equals"/> ▾	<input type="text" value="HA node 2"/>	Remove

[Add](#)

Tags

Name	Value	Action
<input type="text" value="zabbix server"/>	<input type="text" value="node 2"/>	Remove

[Add](#)

CREATING SERVICES

In the end overall structure will look like this:

<input type="checkbox"/>	Parent services	Name	Status	Root cause	Created at	Tags
<input type="checkbox"/>	Infrastructure monitoring	Database	OK		2022-02-22	<code>zabbix: database</code>
<input type="checkbox"/>	Infrastructure monitoring	Frontend	OK		2022-02-22	<code>zabbix: frontend</code>
<input type="checkbox"/>		Infrastructure monitoring 3	OK		2022-02-22	<code>zabbix: monitoring</code>
<input type="checkbox"/>	Infrastructure monitoring	Zabbix cluster 2	OK		2022-02-22	<code>zabbix: server</code>
<input type="checkbox"/>	Zabbix cluster	Zabbix server node 1	OK		2022-02-22	<code>zabbix server: node 1</code>
<input type="checkbox"/>	Zabbix cluster	Zabbix server node 2	OK		2022-02-22	<code>zabbix server: node 2</code>

0 selected

And now if the triggers on the host with appropriate tags will fire, we will immediately see this on the service page

CREATING SERVICE – CONFIGURATION UPDATE

Configuration can be updated by service manager process once a minute by default:

```
### Option: ServiceManagerSyncFrequency
#       How often Zabbix will synchronize configuration of a service manager (in seconds).
#
# Mandatory: no
# Range: 1-3600
# Default:
# ServiceManagerSyncFrequency=60
```

But can be updated manually by executing:

```
# zabbix_server -R service_cache_reload
Runtime control command was forwarded successfully
```

ZABBIX WEBINARS

CREATING SLA REPORTS



- all our microphones are muted
- ask your questions in Q&A, not in the Chat
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CREATING SLA REPORTS

Now we will need to go to Services – SLA Report section and click on **Create SLA** button in the upper right corner:

New SLA

SLA Excluded downtimes

* Name

* SLO %

Reporting period Daily Weekly Monthly Quarterly Annually

Time zone

Schedule 24x7 Custom

* Effective date

* Service tags

Name	Operation	Value	Action
<input type="text" value="zabbix"/>	Equals	<input type="text" value="frontend"/>	Remove
<input type="text" value="zabbix"/>	Equals	<input type="text" value="database"/>	Remove
<input type="text" value="zabbix"/>	Equals	<input type="text" value="server"/>	Remove
<input type="text" value="zabbix"/>	Equals	<input type="text" value="monitoring"/>	Remove

[Add](#)

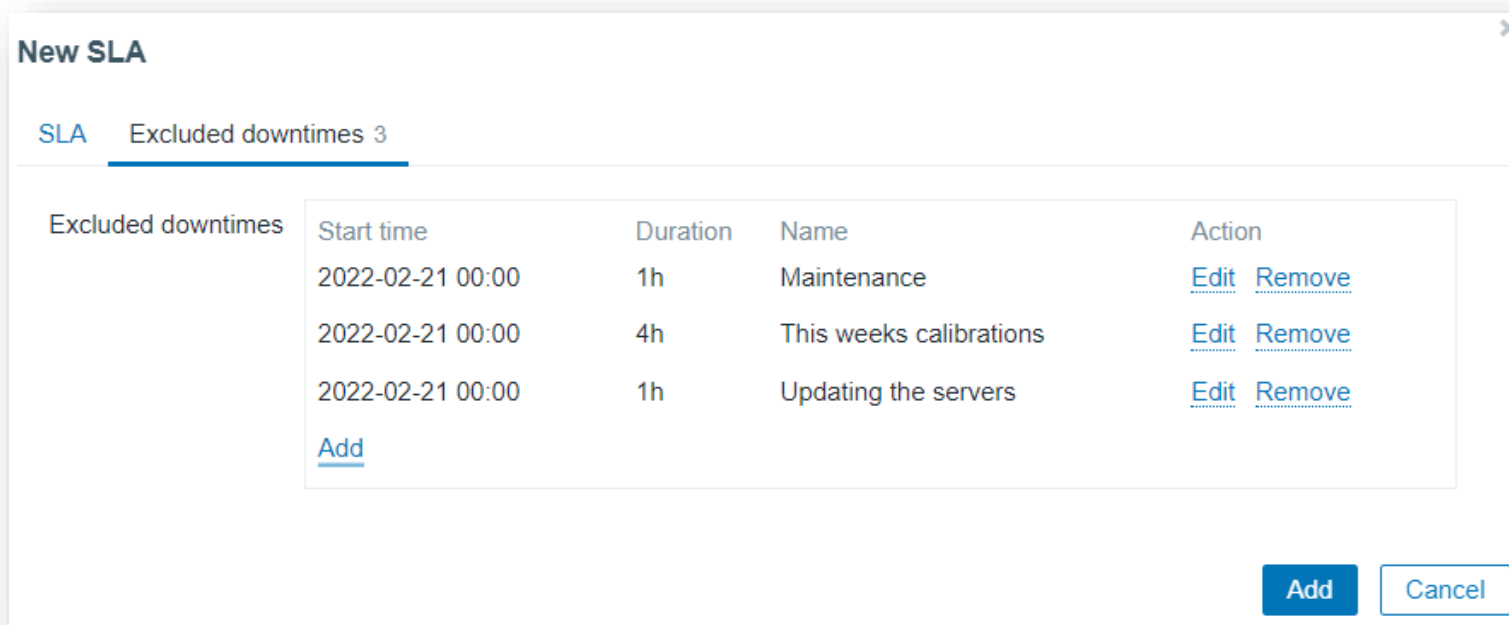
Description

Here we can create a report by specifying the service tags of our interest and use schedule to specify when the service should be available

Only the SLAs related to services accessible to the user will be displayed (as read-only, unless Manage SLA is enabled for the user role).

CREATING SLA – EXCLUDED DOWNTIMES

The Excluded downtimes tab allows to specify downtimes that are excluded from the SLA calculation:



The screenshot shows a 'New SLA' dialog box with a close button (X) in the top right corner. It has two tabs: 'SLA' and 'Excluded downtimes 3', with the latter being selected. Below the tabs is a table with the following data:

Excluded downtimes	Start time	Duration	Name	Action
	2022-02-21 00:00	1h	Maintenance	Edit Remove
	2022-02-21 00:00	4h	This weeks calibrations	Edit Remove
	2022-02-21 00:00	1h	Updating the servers	Edit Remove

Below the table is an [Add](#) link. At the bottom right of the dialog are two buttons: 'Add' and 'Cancel'.

Which can be very helpful when a planned or urgent maintenance took place and shouldn't affect the SLA

ZABBIX WEBINARS

VIEWING SLA REPORTS

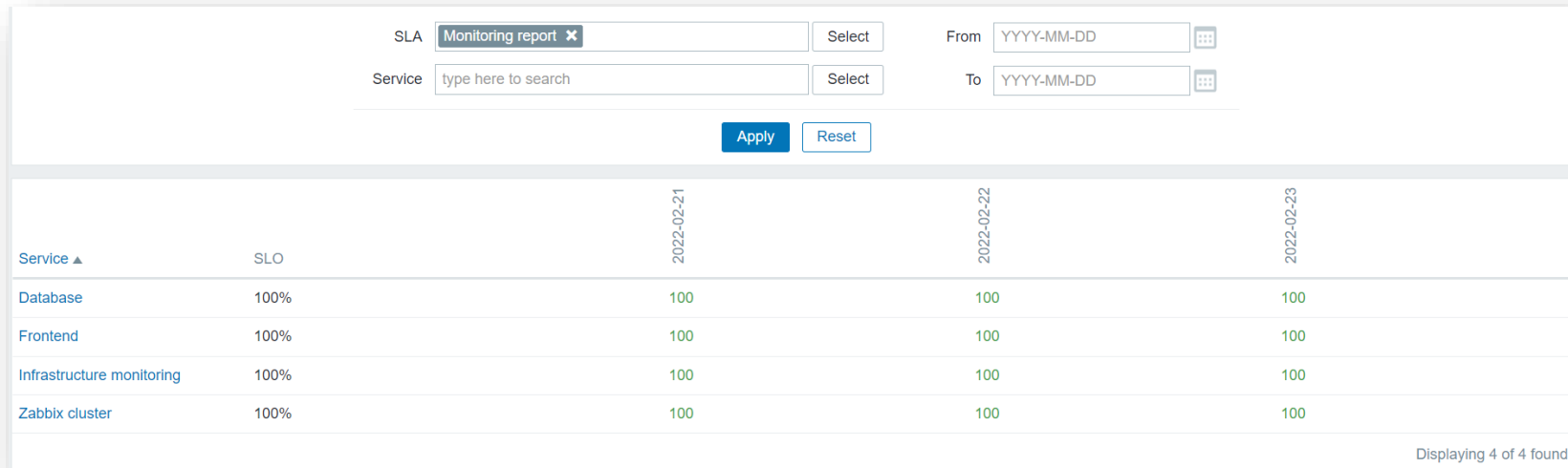


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REVIEWING SLA REPORTS

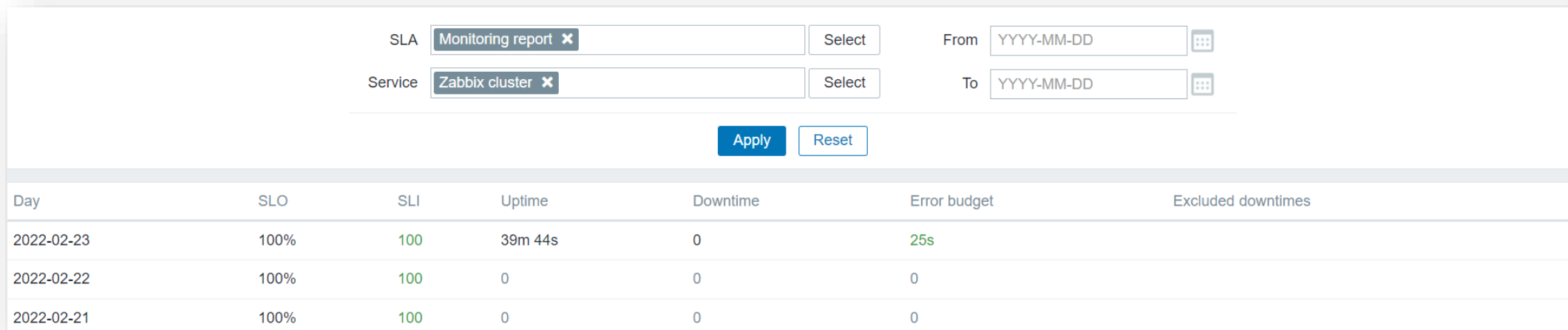
SLA Report menu allows to review SLA reports, based on the criteria selected in the filter:



The screenshot shows the SLA Report menu interface. At the top, there are filter fields: 'SLA' set to 'Monitoring report', 'Service' with a search prompt 'type here to search', 'From' and 'To' date pickers. Below the filters are 'Apply' and 'Reset' buttons. The main table displays SLOs for four services: Database, Frontend, Infrastructure monitoring, and Zabbix cluster. Each service has a 100% SLO and a 100% performance score for each of the three dates: 2022-02-21, 2022-02-22, and 2022-02-23. A footer note indicates 'Displaying 4 of 4 found'.

Service ▲	SLO	2022-02-21	2022-02-22	2022-02-23
Database	100%	100	100	100
Frontend	100%	100	100	100
Infrastructure monitoring	100%	100	100	100
Zabbix cluster	100%	100	100	100

While clicking on the service name, provides a detailed report on the service



The screenshot shows the detailed SLA report for the 'Zabbix cluster' service. The filter fields are updated: 'SLA' is 'Monitoring report' and 'Service' is 'Zabbix cluster'. The 'Apply' and 'Reset' buttons are present. The main table provides a daily breakdown of performance metrics for the dates 2022-02-21, 2022-02-22, and 2022-02-23. The metrics include SLO, SLI, Uptime, Downtime, Error budget, and Excluded downtimes.

Day	SLO	SLI	Uptime	Downtime	Error budget	Excluded downtimes
2022-02-23	100%	100	39m 44s	0	25s	
2022-02-22	100%	100	0	0	0	
2022-02-21	100%	100	0	0	0	

REVIEWING SLA REPORTS

After the SLA was configured, it will be also visible on the services page, by clicking on the service name and info box:

The screenshot shows the Zabbix interface for a service named 'Hosting'. The status is 'OK'. The SLA is 'Hosting SLA: 97.4382'. The tags are 'zabbix'. A table shows the SLA report for the reporting period of 2022-02-21, with a 100% SLO, 97.4382 SLI, 4h 21m 11s uptime, 6m 52s downtime, and a -6m 52s error budget. Below the table, the service components are listed: Database, Frontend, and Load balancer nodes 2, all with an 'OK' status.

All services / Hosting

Hosting

Parent services:

Status: **OK**

SLA: **Hosting SLA: 97.4382** ?

Tags: **zabbix**

Name	Reporting period	SLO	SLI	Uptime	Downtime	Error budget
	2022-02-21	100%	97.4382	4h 21m 11s	6m 52s	-6m 52s

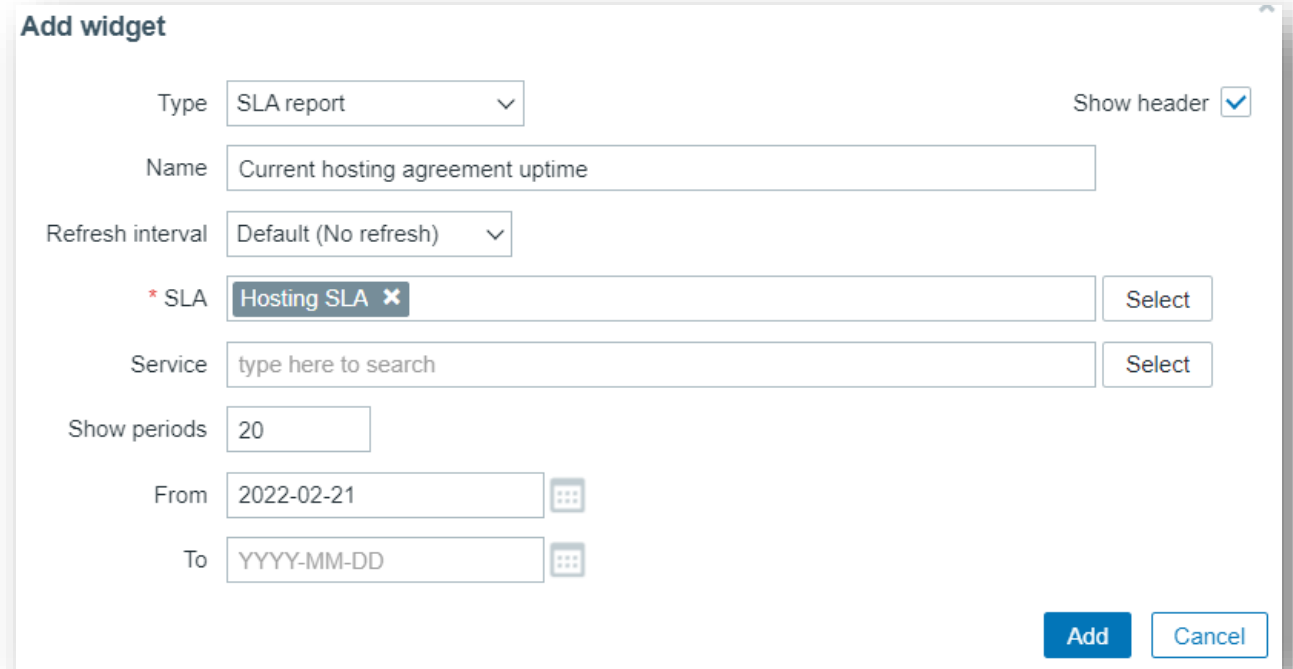
Database **OK**

Frontend **OK**

Load balancer nodes 2 **OK**

SLA REPORTS - WIDGETS

- ✓ SLA – SLA to reflect in report.
- ✓ Service – specific service if needed
- ✓ Show periods – how many periods will be displayed in the widget, 20 by default, 100 per widget.
- ✓ From – Select the beginning date for the report.
- ✓ To - Select the end date for the report.



The screenshot shows a dialog box titled "Add widget" with the following fields and options:

- Type: SLA report (dropdown menu)
- Show header: (checkbox)
- Name: Current hosting agreement uptime (text input)
- Refresh interval: Default (No refresh) (dropdown menu)
- * SLA: Hosting SLA (text input with a close button) and a Select button
- Service: type here to search (text input) and a Select button
- Show periods: 20 (text input)
- From: 2022-02-21 (text input with a calendar icon)
- To: YYYY-MM-DD (text input with a calendar icon)
- Buttons: Add (blue) and Cancel (white)

Relative dates are supported: now, now/d, now/w-1w etc;
supported date modifiers: d, w, M, y.

SLA REPORTS - WIDGETS

SLA reports also can be added to the dashboard, simplifying creation of the business overview dashboard

Page 1 ...

Monitoring						
Day	SLO	SLI	Uptime	Downtime	Error budget	Excluded downtimes
2022-02-22	100%	N/A	0	0	0	
2022-02-21	100%	100	4h 31m 49s	0	0	
2022-02-20	100%	100	1d	0	0	
2022-02-19	100%	100	23h	0	0	2022-02-19 15:00 Planned restart: 1h
2022-02-18	100%	100	11h 1m 29s	0	0	

VM cluster						
Day	SLO	SLI	Uptime	Downtime	Error budget	Excluded downtimes
2022-02-20	99.9%	100	9h	0	0	
2022-02-19	99.9%	100	9h	0	0	
2022-02-18	99.9%	61.9421	4h 45m 14s	2h 55m 15s	-2h 54m 58s	

Development environment				
Service	SLO	2022-02-18	2022-02-19	2022-02-20
Database	100%	100	100	100
Frontend	100%	100	100	100
Hosting	100%	48.2384	100	98.8657
Load balancer nodes	100%	58.4717	100	98.8657

Displaying 4 of 4 found

Frontend						
Day	SLO	SLI	Uptime	Downtime	Error budget	Excluded downtimes
2022-02-21	100%	100	4h 31m 49s	0	0	
2022-02-20	100%	100	1d	0	0	
2022-02-19	100%	100	23h	0	0	2022-02-19 15:00 Planned restart: 1h
2022-02-18	100%	100	10h 53m 6s	0	0	
2022-02-17	100%	N/A	0	0	0	
2022-02-16	100%	N/A	0	0	0	

ZABBIX WEBINARS

CREATING A SERVICE ACTION



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- use Chat for discussion, networking or applauses



SERVICES - ACTIONS

- ✓ Service actions react only on the service-related events
- ✓ Support escalations, including notifications and command execution

The image displays two overlapping screenshots from the Zabbix 6.0 web interface. The top window, titled 'New condition', shows a configuration form with a 'Type' dropdown set to 'Service'. Below it, an 'Operator' dropdown is open, listing options: 'Service', 'Service name', 'Service tag name', and 'Service tag value'. A 'Select' button is visible to the right. The bottom window, titled 'Action Operations 3', shows the configuration for an action. It includes a 'Default operation step duration' field set to '1h'. Below this is a table of operations:

Steps	Details	Start in	Duration	Action
1	Send message to user groups: Web administrators via all media	Immediately	Default	Edit Remove
2	Send message to user groups: Management via all media	01:00:00	Default	Edit Remove

Below the operations table, there are sections for 'Recovery operations' and 'Update operations', each with a 'Details' field and an 'Add' button. The 'Recovery operations' section shows 'Notify all involved' with 'Edit' and 'Remove' links.

QUESTIONS?



DOWNLOAD & GET STARTED IN 10 MINUTES

FOR PRODUCTION USE FOR CLOUDS FOR CONTAINERS FOR QUICK DEPLOYMENT FOR DEEP CUSTOMIZATION FOR AGENT DEPLOYMENT

Install from Packages Zabbix Cloud Images Zabbix Container Images Zabbix Appliance Zabbix Sources Zabbix Agents

✓ Choose your platform for Zabbix server

ZABBIX VERSION	OS DISTRIBUTION	OS VERSION	DATABASE ²	WEB SERVER
5.2	Red Hat Enterprise Linux	8	MySQL	Apache
5.0 LTS	CentOS	7	PostgreSQL	NGINX
4.0 LTS	Oracle Linux	6		
3.0 LTS	Ubuntu			
	Debian			
	SUSE Linux Enterprise Server			
	Raspbian			

- ✓ Install and configure Zabbix server
- ✓ Configure Zabbix frontend
- ✓ Start using Zabbix

KEEN TO **LEARN MORE** ABOUT ZABBIX?

START WITH ZABBIX DOCUMENTATION

These pages are created to help users successfully manage their monitoring tasks with Zabbix, from the simple to the more complex.

English Chinese Portuguese Russian Japanese French Polski

Zabbix 5.2

Manual provides all necessary information to successfully install, configure, and run Zabbix.

[Read manual](#)

Zabbix 5.0 LTS Read manual	Zabbix 4.4 Read manual	Zabbix 4.2 Read manual
Zabbix 4.0 LTS Read manual	Zabbix 3.0 LTS Read manual	Zabbix 2.2 LTS Read manual

Books on Zabbix

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Installers
Libraries
Monitoring Equipment
Network Appliances
Network Devices
Notifications
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Power (UPS)

Directory: Most Rated Listings

Zabbix-in-Telegram **Popular** ★★★★★

Zabbix Notifications with graphs in Telegram. Features Graphs based send messages both in private and group chats Channels support Sa

Category: [Notifications](#)

Type [Alert Script](#) Vendor [Others](#)

Grafana-Zabbix **Popular** ★★★★★

This plugin allows to connect Zabbix to Grafana metric dashboard (gra features overview and dashboards examples at Grafana-Zabbix Live d

Category: [Applications](#)

Type [Integration](#) Vendor [Others](#)

WEBINARS

✔ Pay attention to recorded webinars in zabbix.com

✔ More advanced topics are covered there

Zabbix performance tuning: 100k of checks per second on a single server

Arturs Lontons
Technical Support Engineer, Zabbix

31 min.
English

[Watch now](#)

Migration to the latest release

Arturs Lontons
Technical Support Engineer, Zabbix

31 min.
English

[Watch now](#)

Value pre-processing

Arturs Lontons
Technical Support Engineer, Zabbix

22 min.
English

[Watch now](#)

Communicating with Zabbix using API: create your first integration

Renats Valiahmetovs
Technical Support Engineer, Zabbix

60 min.
English

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What's new in Zabbix 5.2

Alexei Vladishev
Founder & CEO, Zabbix

65 min.
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Arturs Lontons
Technical Support Engineer, Zabbix

30 min.
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Arturs Lontons
Technical Support Engineer, Zabbix

67 min.
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H5 Network - Zabbix integration live demo on the real network

Frédéric Guillois
President, H5 Network

27 min.
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Vittorio Cioe
Sr. Solution Engineer, MySQL

47 min.
English

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Effortlessly start monitoring of your specific device, system, application or service

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Quickly get a solution

Eliminate any issues you have run into within hours, not days or weeks. Fix your system correctly, accurately

UPGRADE

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Eliminate the risk and minimize downtime by upgrading with the Zabbix team

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Expand your workflow

Interconnect Zabbix with your ticketing system, servicedesk or any other tool you might have

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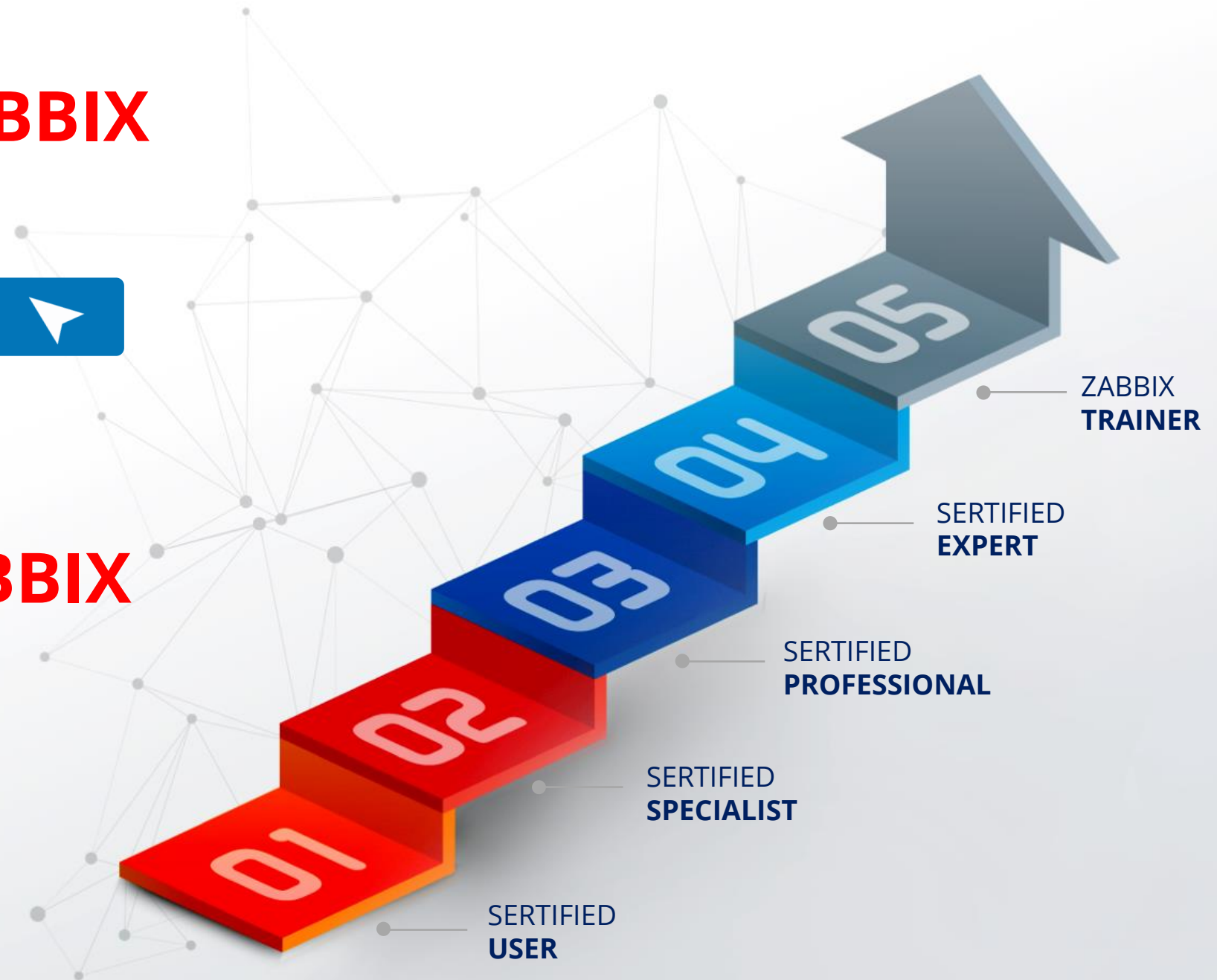


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Level 1	Level 2	Level 3	Level 4
<h2>Zabbix Certified User</h2> <p>Use Zabbix frontend to view information. Know potential of Zabbix</p> <p>1 day</p>	<h2>Zabbix Certified Specialist</h2> <p>Setup & configure Zabbix in SMBs or configure Zabbix in large companies</p> <p>5 days</p>	<h2>Zabbix Certified Professional</h2> <p>Manage big, distributed, highly loaded installations in large companies</p> <p>3 days</p>	<h2>Zabbix Certified Expert</h2> <p>Design & maintain highly efficient & loaded setups with expertise in API, HA/DR, and DB partitioning</p> <p>5 days</p>
Requirements None	Requirements Advanced computer literacy	Requirements Zabbix Certified Specialist exam or attendance certificate	Requirements Zabbix Certified Professional exam
Price in EUR Price in USD	Price in EUR Price in USD	Price in EUR Price in USD	Price in EUR Price in USD
€ 550	€ 1,950	€ 1,850	€ 3,250
Price does not include VAT	Price does not include VAT	Price does not include VAT	Price does not include VAT
Apply for course	Apply for course	Apply for course	Apply for course
Program description	Program description	Program description	Program description

If you are certain of your knowledge, **ZCU**, **ZCS** and **ZCP** exams can be purchased separately. More info: zabbix.com/training

ZABBIX EXTRA TRAINING

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

Requirements
No requirements

Price in EUR Price in USD

€ 490

Price does not include VAT

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[Program description](#)

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

Requirements
No requirements

Price in EUR Price in USD

€ 490

Price does not include VAT

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[Program description](#)

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

Requirements
No requirements

Price in EUR Price in USD

€ 490

Price does not include VAT

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[Program description](#)

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

Requirements
No requirements

Price in EUR Price in USD

€ 490

Price does not include VAT

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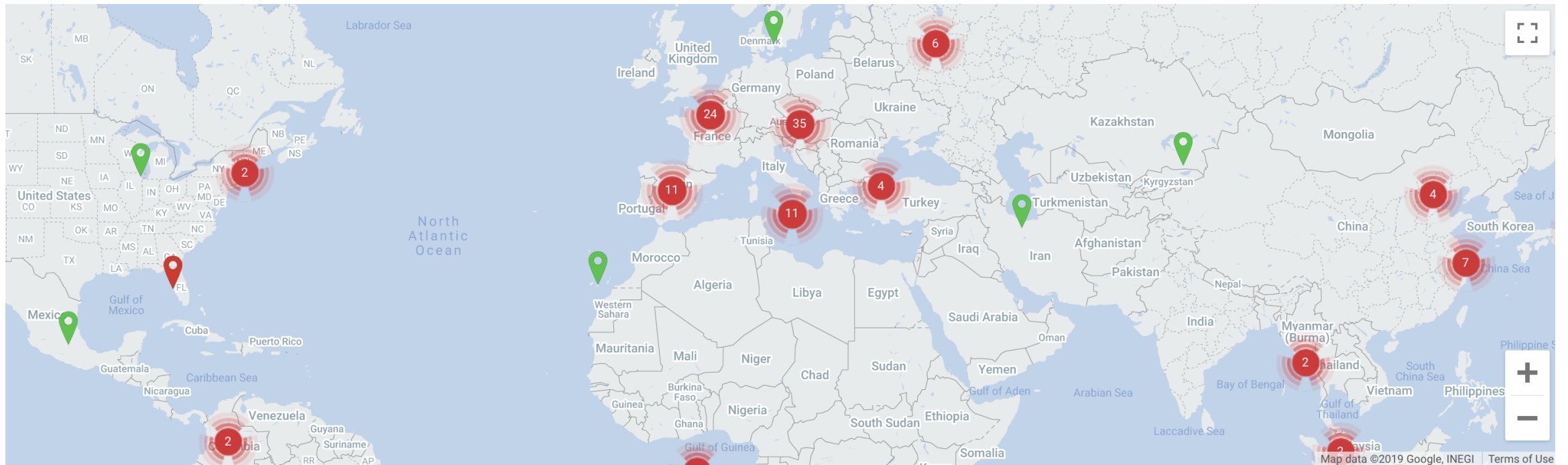
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QUESTIONS?



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THANK YOU!

