

**ZABBIX** 

MEETING '25

RIGA • LATVIA



# Zabbix & NIS2:

Ensuring Compliance with [Secure Monitoring](#)

# NIS vs NIS2

- **NIS** (Network and Information Security) Directive initially came into force on August, 2016 was applied only to critical infrastructure
- **NIS2** replaced the initial directive on 17th of October, 2024 – deadline for all EU state members to transpose the NIS2 Directive into applicable, national law
- **Latvian National Cybersecurity Law** came into force on 1st of September, 2024 and till 1st of April, 2025 all essential and important entities had to send the registration survey to National Cybersecurity Center and MOD email address.

# Organizations Affected By NIS2

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## Energy

Essential Entity



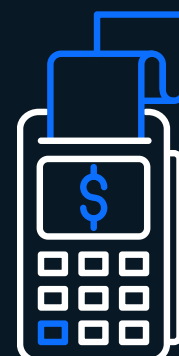
## Health

Essential Entity



## Transport

Essential Entity



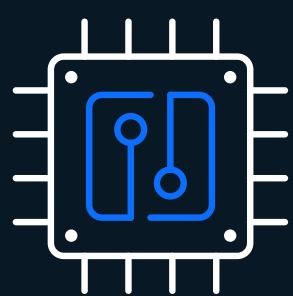
## Finance

Essential Entity



## Water Supply

Essential Entity



## Digital Infrastructure

Essential Entity



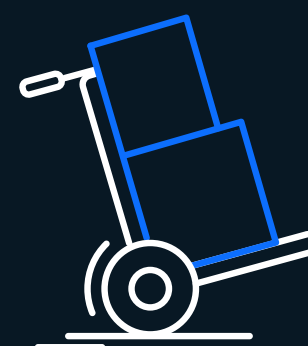
## Public Administration

Essential Entity



## Digital Providers

Important Entity



## Postal Services

Important Entity



## Waste Management

Important Entity



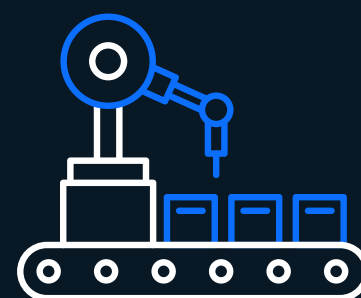
## Space

Essential Entity



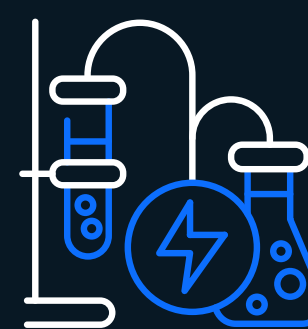
## Foods

Important Entity



## Manufacturing

Important Entity



## Chemicals

Important Entity



## Research

Important Entity



# NIS2 Related Fines

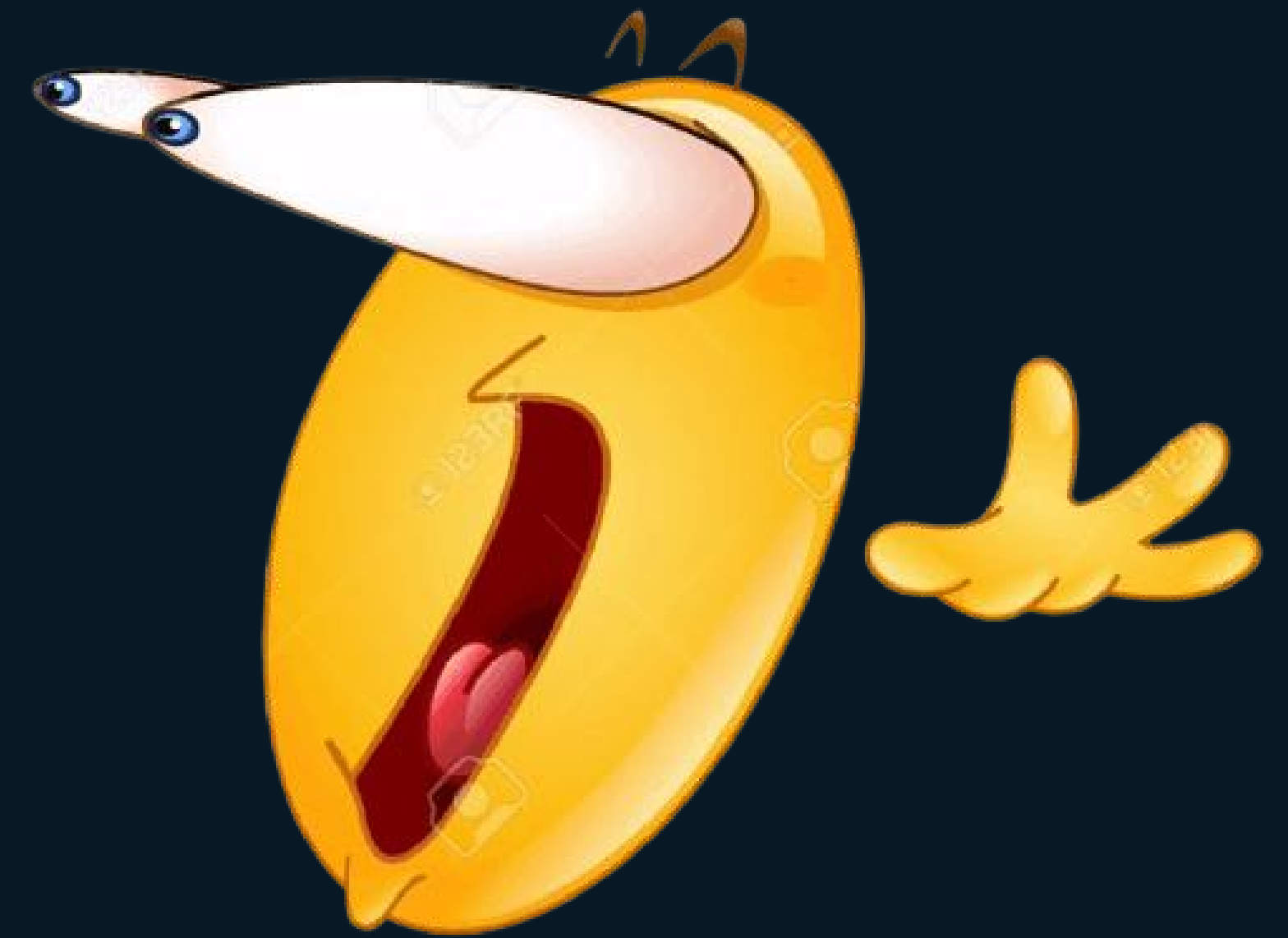
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**Essential Entities** (e.g., energy, transport, finance, health, public administration):

- Fines up to **€10 million** or **2% of global annual turnover**,
- whichever is higher.

**Important Entities** (e.g., digital providers, manufacturing, food, chemicals):

- Fines up to **€7 million** or **1.4% of global annual turnover**,
- whichever is higher.





# The 10 Minimum Cybersecurity Risk Management Measures under NIS2

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1. Risk Analysis and Information System Security Policies
2. Incident Handling
3. Business Continuity and Crisis Management
4. Supply Chain Security
5. Security in System Acquisition, Development, and Maintenance
6. Policies and Procedures to Assess the Effectiveness of Cybersecurity Risk Management Measures
7. Basic Cyber Hygiene Practices and Cybersecurity Training
8. Policies and Procedures Regarding the Use of Cryptography and Encryption
9. Human Resources Security, Access Control Policies, and Asset Management
10. Use of Multi-Factor Authentication or Continuous Authentication Solutions

# Risk Analysis & Security



Zabbix provides data visibility that can help with risk management and policy creation decisions.

Zabbix can:

- Detect anomalies, suspicious activities, resource overload, downtime, etc.
- Monitor bandwidth usage, network interface metrics, and other critical services
- Check open ports and insecure webpages
- Monitor the integrity of important files such as password files and configuration files
- Create customized alerting workflows
- Monitor sensors in data centers to detect physical security breaches

2025-02-26 10:37:36 PM	Average	PROBLEM	Switch	High traffic on interface eth0 ?	13h 15m 38s	Update
2025-02-26 10:28:28 PM	Warning	PROBLEM	Switch	New Router OS version installed ?	13h 24m 46s	Update
2025-02-26 10:15:03 PM	High	PROBLEM	Router	New admin login detected ?	13h 38m 11s	Update
2025-02-26 10:06:02 PM	Information	PROBLEM	Router	New user added ?	13h 47m 12s	Update
2025-02-26 09:57:39 PM	Average	PROBLEM	PC	Port 22 not reachable ?	13h 55m 35s	Update
2025-02-26 09:57:38 PM	Average	PROBLEM	Website	Website certificate expiring soon ?	13h 55m 36s	Update
2025-02-26 09:29:58 PM	Average	PROBLEM	Data storage	Low disk space on mounted drive ?	14h 23m 16s	Update



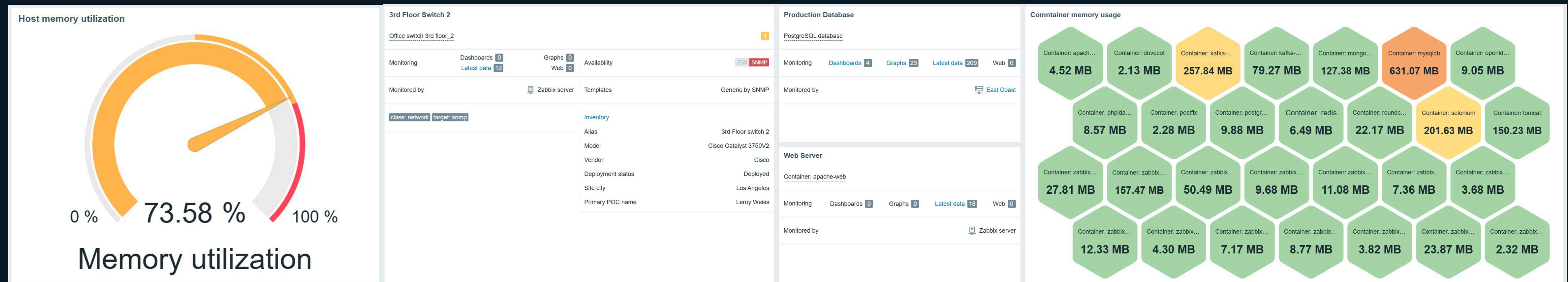
# Incident Response

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Have procedures in place to handle security incidents as they arise.

Zabbix can:

- Provide real-time monitoring and alert users to potential incidents
- Keep a comprehensive log history for root cause analysis
- Support multiple notification channels and scenarios for incident reporting
- Share real-time incident data with external systems while providing custom dashboards and reports about ongoing incidents





# Backup & Disaster Recovery



Have backup management, disaster recovery, and crisis management plans in place to provide business continuity.

## Zabbix can:

- Provide full support for Veeam (OOB) and Bacula data platforms, among others.
- Monitor the backup execution process and track the storage and usage of backup servers.

<input type="checkbox"/>	Name ▲	Triggers	Key	Interval	History	Trends	Type	Status	Tags
<input type="checkbox"/>	... <a href="#">Get metrics: Failed Job Runs</a>	<a href="#">Triggers</a> 1	veeam.manager.failed.jobs		Stored	Stored	Dependent item	<a href="#">Enabled</a>	<a href="#">component: reports</a>
<input type="checkbox"/>	... <a href="#">Get metrics: Get errors</a>	<a href="#">Triggers</a> 1	veeam.manager.get.errors		Stored		Dependent item	<a href="#">Enabled</a>	<a href="#">component: status</a>
<input type="checkbox"/>	... <a href="#">Get metrics</a>		veeam.manager.get.metrics	5m	Not stored		Script	<a href="#">Enabled</a>	<a href="#">component: raw</a>
<input type="checkbox"/>	... <a href="#">Get metrics: Running Jobs</a>		veeam.manager.running.jobs		Stored	Stored	Dependent item	<a href="#">Enabled</a>	<a href="#">component: reports</a>
<input type="checkbox"/>	... <a href="#">Get metrics: Scheduled Backup Jobs</a>		veeam.manager.scheduled.backup.jobs		Stored	Stored	Dependent item	<a href="#">Enabled</a>	<a href="#">component: reports</a>
<input type="checkbox"/>	... <a href="#">Get metrics: Scheduled Jobs</a>		veeam.manager.scheduled.jobs		Stored	Stored	Dependent item	<a href="#">Enabled</a>	<a href="#">component: reports</a>
<input type="checkbox"/>	... <a href="#">Get metrics: Scheduled Replica Jobs</a>		veeam.manager.scheduled.replica.jobs		Stored	Stored	Dependent item	<a href="#">Enabled</a>	<a href="#">component: reports</a>
<input type="checkbox"/>	... <a href="#">Get metrics: Total Job Runs</a>		veeam.manager.scheduled.total.jobs		Stored	Stored	Dependent item	<a href="#">Enabled</a>	<a href="#">component: reports</a>

# Supply Chain Security

Maintain supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers.

Zabbix can:

- Monitor third-party services and dependencies for availability and performance
- Alert users to potential vulnerabilities or disruptions in supply chain services and provide SLA reporting.

Name	Status	Root cause
Backend application	OK	
Backup environment	High	Backup node 5 down
MySQL database	OK	
Web application	Average	High session count, Web application node 1 down, High request count
Zabbix application server	OK	



# System Security & Vulnerabilities



Provide security in network and information systems acquisition, development, and maintenance – including vulnerability handling and disclosure.

## Zabbix can:

- Monitor software versions and check for outdated components
- Support integration with external tools to check vulnerabilities

Host	Name ▲	Last check	Last value
Docker 01	Kernel version	7h 7m 33s	4.18.0-348.7.1.el8_...
Oracle ODBC 03	Oracle: Version ?	7h 8m 3s	11.2.0.2.0-XE
Oracle ODBC 01 11g	Oracle: Version ?	7h 7m 12s	11.2.0.2.0-XE
Zabbix server	Proxy [localProxy]: Version ?	7h 7m 20s	7.0.4
Zabbix server	Proxy [New York]: Version ?	7h 7m 20s	undefined
Docker 01	Server version	7h 7m 33s	23.0.4
MySQL server 01	Version ?	58m 24s	8.0.37
Nginx	Version	7h 7m 17s	1.14.1
www.zabbix.com	Version ?	57m 8s	3
distrowatch.com	Version ?	56m 55s	3
www.linkedin.com	Version ?	3h 56m 42s	3
Apache Tomcat	Version ?	7h 7m 36s	Apache Tomcat/8.5...
Zabbix server	Version ?	7h 7m 58s	7.0.4
Windows demo server	Version ?	1h 2m 25s	3
Certificate monitroing	Version ?	3m 31s	3
AWS EC2 Server 2016	Version of Zabbix agent running	6h 13m 35s	7.0.9
Zabbix server	Version of Zabbix agent running	6h 9m 24s	7.0.4
Windows demo server	Version of Zabbix agent running	7h 1m 5s	7.0.0



# Cryptography & Encryption

Have policies and procedures in place regarding the use of cryptography and encryption.

Zabbix can:

- Comprehensively monitor encryption certificates for expiration.

Host	Name ▲	Last check	Last value
www.zabbix.com	Expires on ?	55m 52s	2025-04-22 04:41:...
www.zabbix.com	Fingerprint ?	55m 52s	409fe48b8fae079c...
www.zabbix.com	Get ?		
www.zabbix.com	Issuer ?	55m 52s	CN=WE1,O=Googl...
www.zabbix.com	Last validation status ?	55m 52s	certificate verified s...
www.zabbix.com	Public key algorithm ?	55m 52s	ECDSA
www.zabbix.com	Serial number ?	55m 52s	f7297e54ed7b769f...
www.zabbix.com	Signature algorithm ?	55m 52s	ECDSA-SHA256
www.zabbix.com	Subject ?	55m 52s	CN=zabbix.com
www.zabbix.com	Subject alternative name ?	55m 52s	["zabbix.com","*.za...
www.zabbix.com	Validation result ?	55m 52s	valid
www.zabbix.com	Valid from ?	55m 52s	2025-01-22 02:41:...
www.zabbix.com	Version ?	55m 52s	3

# HR & Access Control

Maintain HR security by providing accessible control and asset management policies.

Zabbix can:

- Monitor user actions with the help of log files.

Name	Value
System log	Jane logged out at 12:30
System log	John logged out at 12:25
System log	John accessed system files at 12:17
System log	Jane logged in at 12:13
System log	John logged in at 12:05


# Multi-Factor Authentication

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Implement multi-factor authentication (MFA) or continuous authentication solutions, secured emergency communication systems, and secured voice, video, and text communications.

## Zabbix can:

- Monitor the performance and uptime of any identity provider (IdP)
- Use APIs provided by the IdPs to query MFA policies and user login events
- Monitor logs for MFA-related events
- Provide custom dashboards and reports on MFA usage



The image shows a Zabbix login interface for Multi-Factor Authentication. It features the ZABBIX logo at the top. Below it, the text "Scan this QR code" is displayed, followed by a QR code. A note below the QR code says "Please scan and get your verification code displayed in your authenticator app." To the right of the QR code, there is a text input field for the verification code, with a label "Verification code" above it. Below the input field is a blue "Sign in" button. At the top right of the interface, there is a red box with the ZABBIX logo. Below the QR code, there is a text input field for the verification code, with a label "Verification code" above it. Below the input field is a blue "Sign in" button. At the top right of the interface, there is a red box with the ZABBIX logo. Below the QR code, there is a text input field for the verification code, with a label "Verification code" above it. Below the input field is a blue "Sign in" button.

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Scan this QR code

Please scan and get your verification code displayed in your authenticator app.

Unable to scan? You can use SHA1 secret key to manually configure your authenticator app:  
NVC4MMZGQHPQMOTDOYBA7BO4B2OXHRUY

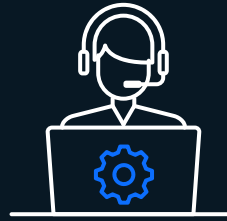
Verification code

Sign in



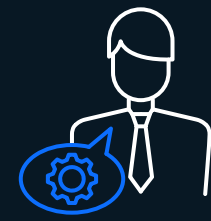
# Professional Services

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## Technical Support

Get instant 24x7 access to a team of Zabbix experts for guaranteed professional support and technical advice.



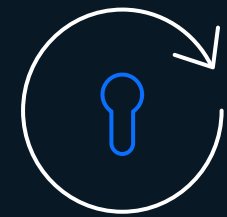
## Consulting

Talk to experts. Benefit from expert advice and best practices for all Zabbix-related matters.



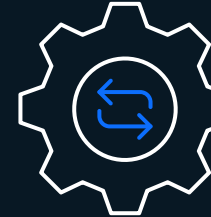
## Professional training

Obtain knowledge and get certified. Focused, comprehensive training for all your Zabbix needs.



## Turnkey solution

Deploy professionally. Install and configure Zabbix according to your unique requirements.



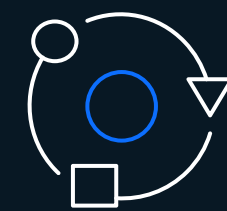
## Migration

Move all your data to Zabbix. Switch to Zabbix without the trouble of moving all your legacy infrastructure yourself.



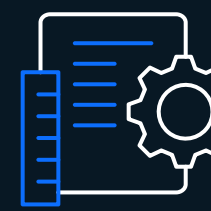
## Upgrade

Use the latest version. Eliminate risk and minimize downtime.



## Integration

Expand your workflow. Connect Zabbix to your ticketing system, service desk, or any other tool.



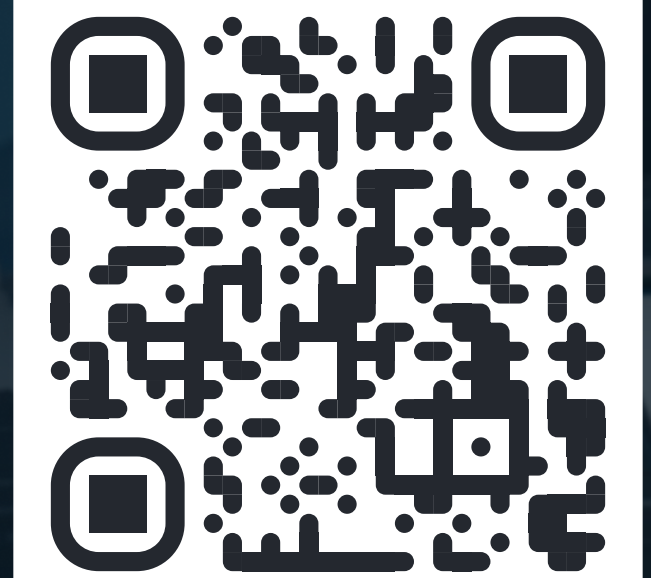
## Template building

Customize monitoring. Effortlessly start monitoring your specific device, system, application, or service.



## Development

Enhance Zabbix. Let Zabbix develop additional features for your business needs.



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**Thank you!**  
**Q&A**