

**ZABBIX**

# **NATIVE CLOUD MONITORING**

**DMITRIJS LAMBERTS**  
HEAD OF CUSTOMER SUPPORT

**ZABBIX**

# WHY CLOUD MONITORING IS IMPORTANT

## **COST OPTIMIZATION**

Be aware of your cloud footprint and **optimize cost** based on true data

## **PERFORMANCE**

Keep track of how well your resources are running and **serving your customers**

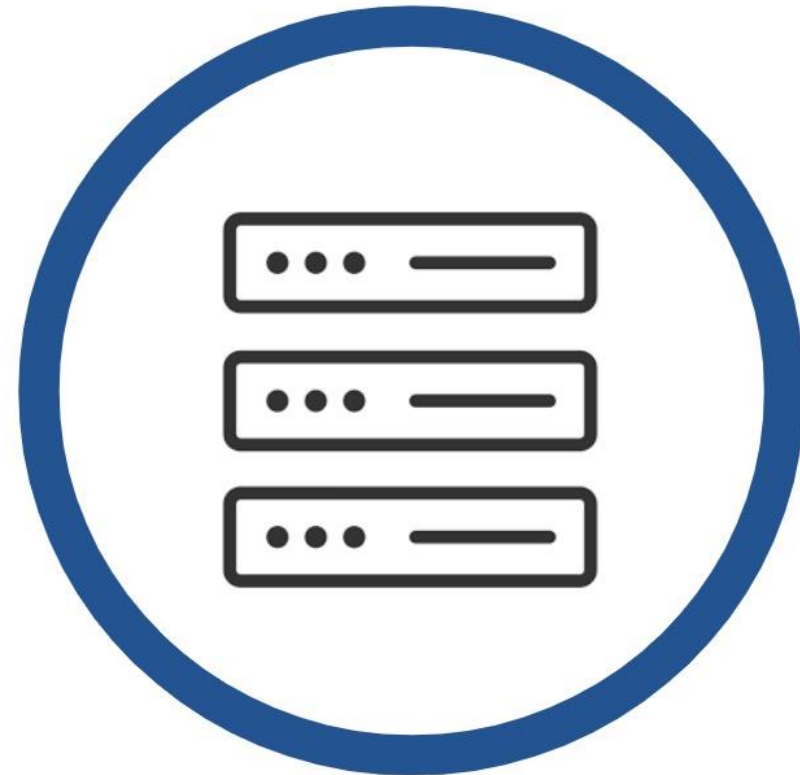
## **BENCHMARKING**

Create baseline **benchmarks for before-after comparisons**

## **SECURITY**

Examine your resources, and let monitoring solution to **inform you about anomalies**

**TO BE HONEST,  
REASONS AND BENEFITS DOESN'T DIFFER  
TOO MUCH**

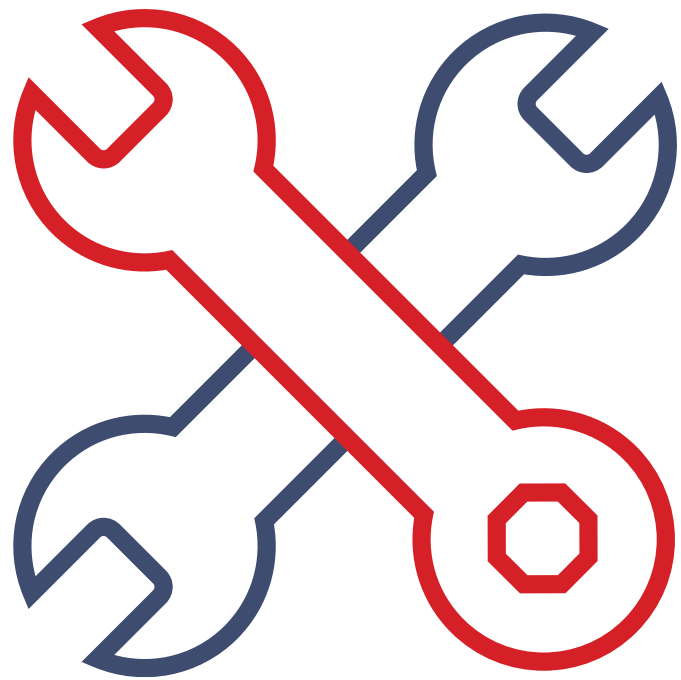


# ARE THERE ANY **DIFFERENCES** FROM THE MONITORING PERSPECTIVE? **YES. A LOT.**

- ✓ What cloud provider do we use
- ✓ Where it is located
- ✓ How to feed data in monitoring
- ✓ How to access data
- ✓ Can we discover changes
- ✓ Security
- ✓ And more



# CLOUD MONITORING WAS HERE FOR A LONG TIME, BUT NOT NATIVE...



No official support – a lot of **risks**

Third-party **dependencies** – upgrade issues

Complex setup – required knowledge

Difficult to maintain – **time consumption**



**NATIVE  
ZABBIX  
CLOUD MONITORING  
OUT OF THE BOX**

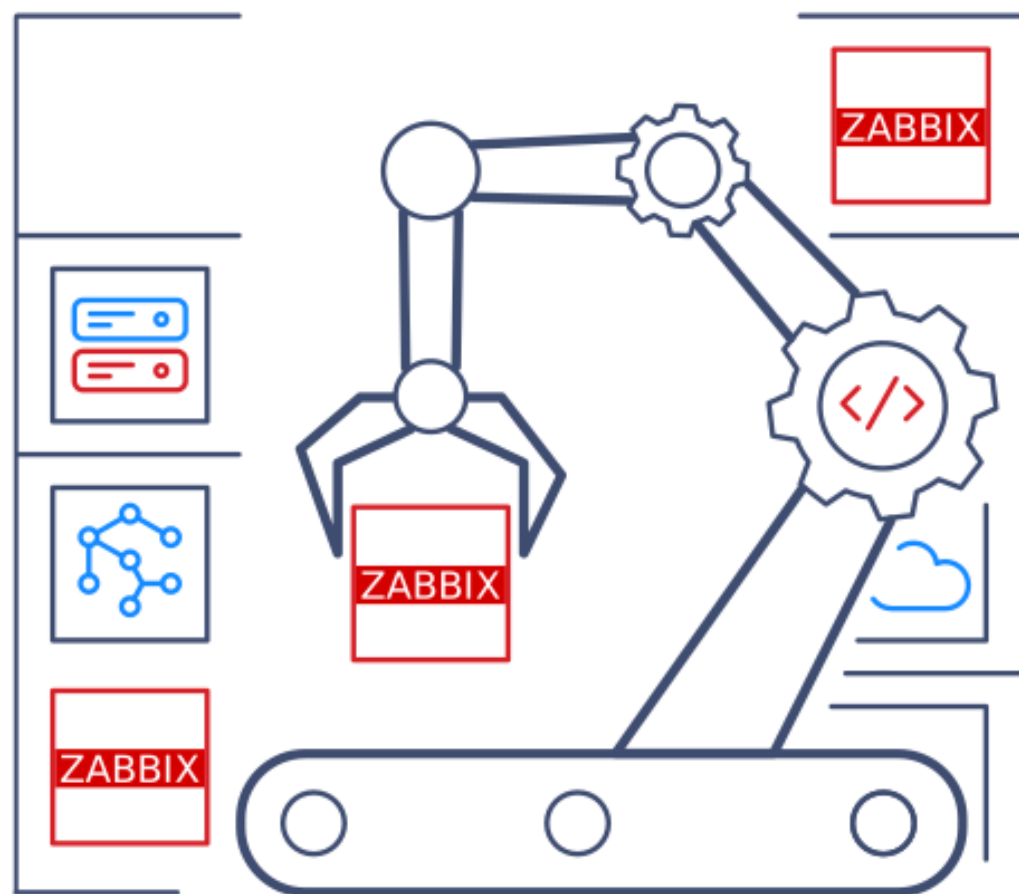
# IN ESSENCE

- 📶 Released in Zabbix 6.2
- 📶 AWS and Azure support
- 📶 Backported to **Zabbix 6.0 LTS**
- 📶 **Developed and Supported** by Zabbix
- 📶 More cloud providers in future
- 📶 **A growing list** of supported resources





# YOU ARE **FEW MINUTES** AWAY FROM YOUR FIRST **CLOUD METRICS IN ZABBIX**



Create a user in your cloud provider

**Link a Template** to the host

Provide “key, secret, region”

Lay back and let **Zabbix** work

# EVEN EASIEST TASKS REQUIRE SOME GUIDANCE

## Official solutions

Official integrations are developed and supported by Zabbix



AWS by HTTP

6.2 and higher



AWS EC2 by HTTP

6.2 and higher



AWS RDS instance by HTTP

6.2 and higher



AWS S3 bucket by HTTP

6.2 and higher

[www.zabbix.com/integrations](http://www.zabbix.com/integrations)

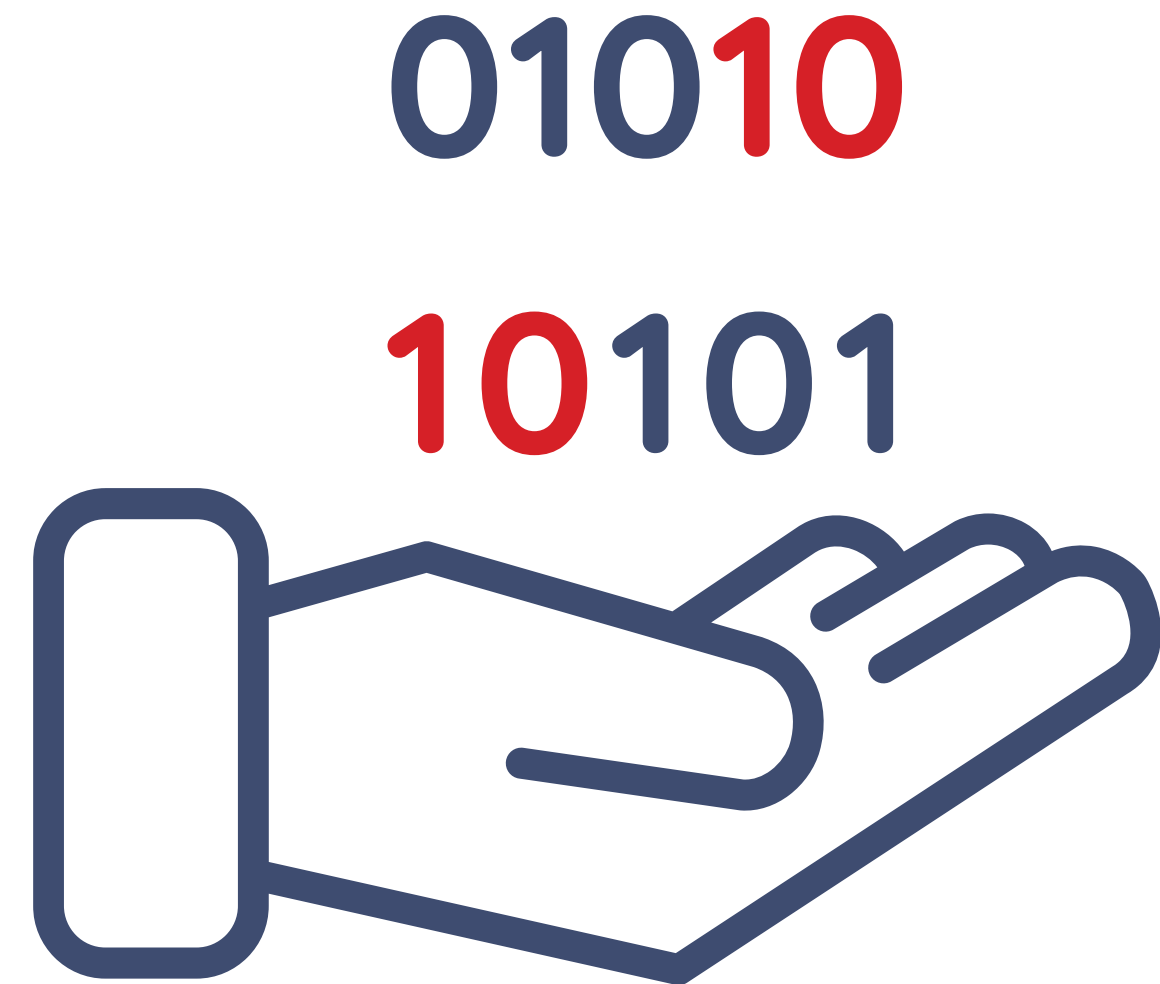
Detailed list of metrics

Step-by-step setup instructions

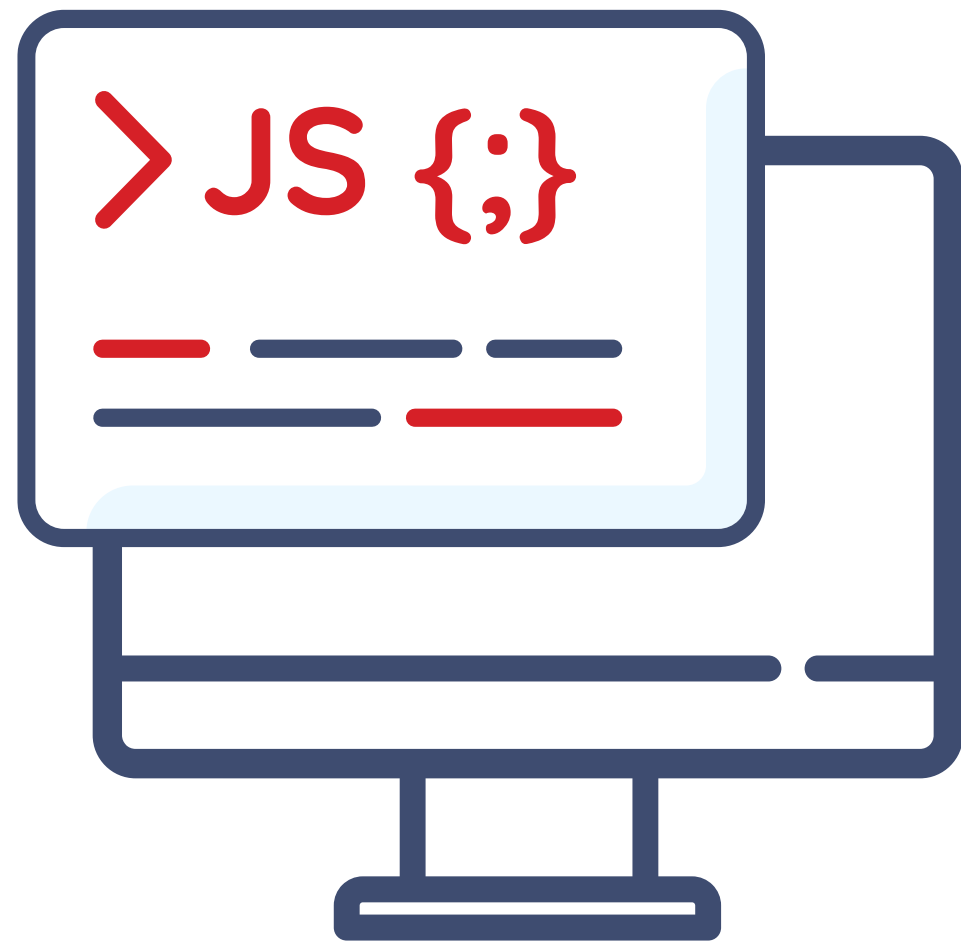
API Methods explanation

# CLOUD MONITORING IN MORE DETAILS (UNDER THE HOOD)

- ✓ Data gathering through cloud provider API
- ✓ Automated discovery of resources
- ✓ Keeping track of changes in the cloud
- ✓ Granular filtering options for discovery
- ✓ Out-of-box Triggers for generic alerts



# UTILIZING **SCRIPT** ITEM TYPE WITH JAVASCRIPT **PREPROCESSING**



- ⚡ Connect to Cloud Vendor API endpoint
- ⚡ Collect requested data in ZABBIX
- ⚡ Transform it to Zabbix format with preprocessing

# LOW LEVEL DISCOVERY ALSO HAS HUGE PART IN THE PROCESS








- Analyze incoming data
- Automatically create hosts
- Automatically create items and triggers


# YOU CAN FOLLOW **AWS MONITORING** CONFIGURATION



# TALKING ABOUT CLOUDS...

Zabbix Packages   **Zabbix Cloud Images**   Zabbix Containers   Zabbix Appliance   Zabbix Sources   Zabbix Agents

CLOUD VENDOR	ZABBIX VERSION	COMPONENT	DATABASE	WEB SERVER
 AWS	6.2	Zabbix Server	MySQL	Nginx
 Azure	6.0	Zabbix Proxy		
 DigitalOcean	5.4			
 Google Cloud Platform	5.0			
 Red Hat OpenShift				





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**THANK YOU!**

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