Tingo Die ZABBIX ZABBIX IN THE AV-INDUSTRY ICEO Zabbix Summit 2023, Riga Chitekte Software ZABBIX Ned wickler Steuerun

Tingo Die HELLO LO Be nice V to me, it's my first speech in front of so many people ... and in English Med

Steuerun

Softwarewickler

WHO AM I?

Silvano Giacomello (IT-)Project Manager, Teamleader IT/Application-Development and Member of the Board

Working with Zabbix since bersion 2.2, Certified Expert (Version 5) * (* Thanks to one of the best trainer, the one and only Wolfang)



TINGO DIE AV-ARCHITEKTEN

founded in 2009, 12 employees including one trainee,

independent planning office for audio-, video and media-technology, and application development













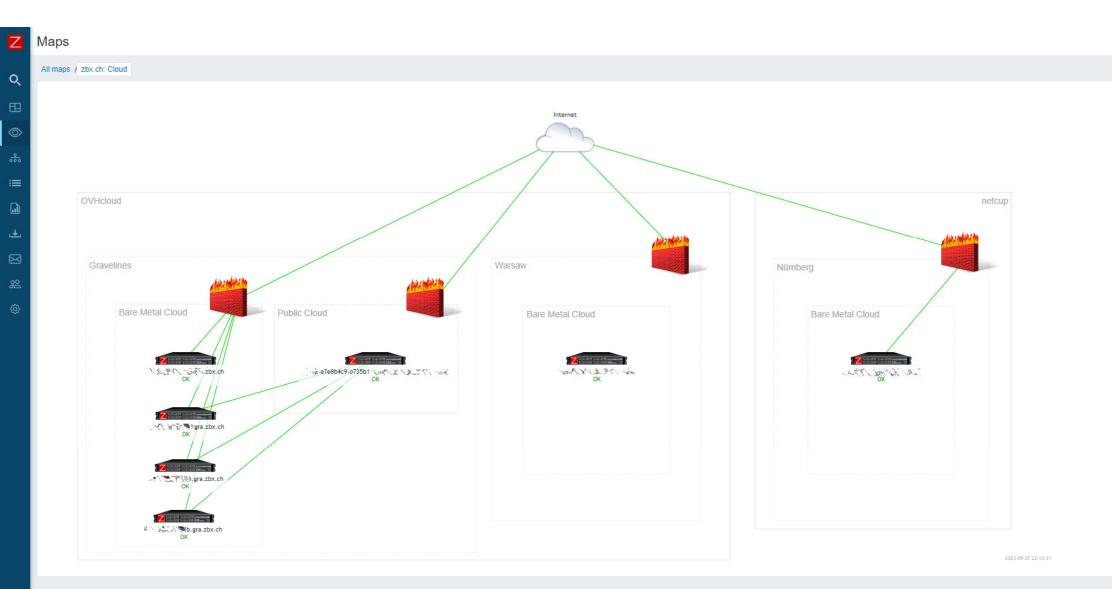
ZABBIX INFRASTRUCTURE

«Cloud»-based, redundant, Zabbix Infrastructure in Europe.

- 2 Application-Servers (Zabbix Server, Zabbix Frontend; redundancy based on Pacemaker/Corosync)
- 2 Database-Servers (MySQL; Database-as-a-Service)
- 2 Remote-Monitoring Nodes (same provider second country; second provider third country)
- 1 General Zabbix Proxy (Websites, Certificates, etc.)







WHY THIS SPEECH ? AV?

AV is the acronym for audio and visual. Near everyone in here is using something from the AV-Industry.

It's Audio

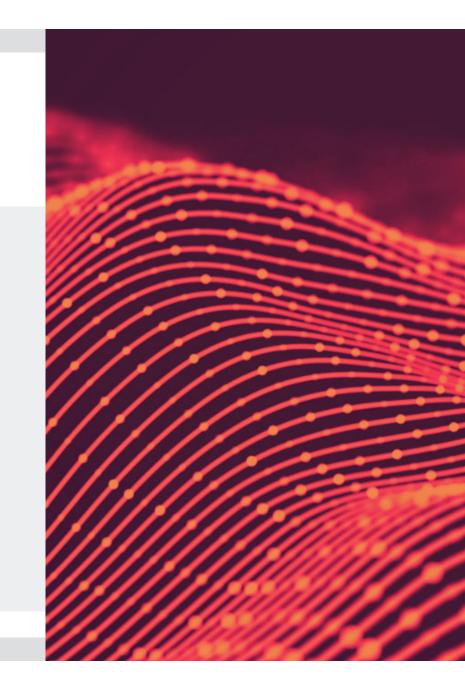
Communication systems, sound systems, amplified voices, music and sound effects.

It's Visual

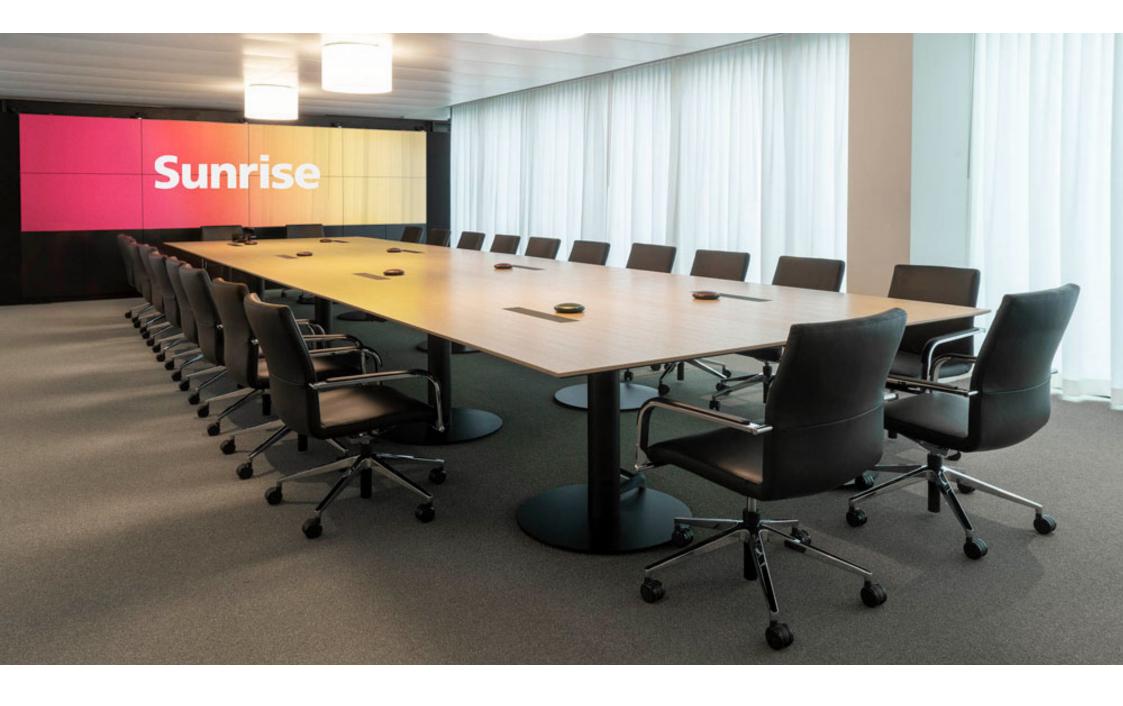
It's a visual aesthetic, display screens, videos, lights, darkness and movement.

Interactive Experience

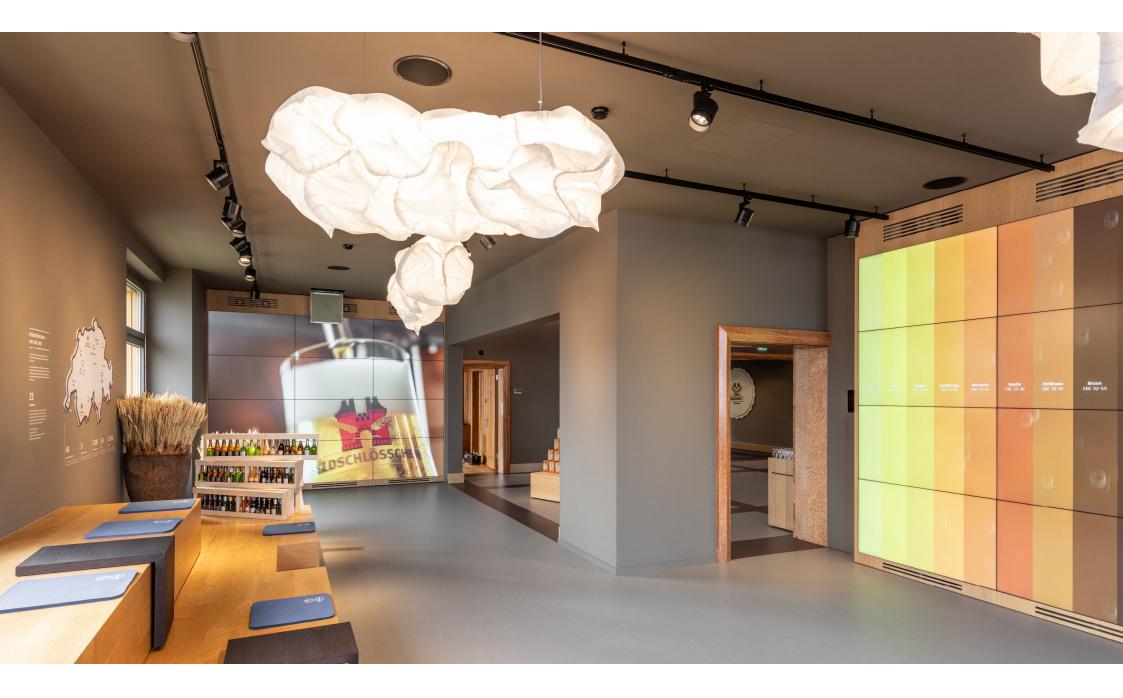
AV uses art and technology to communicate ideas, emotions, and information ... to set a mood ... and to influence perception.









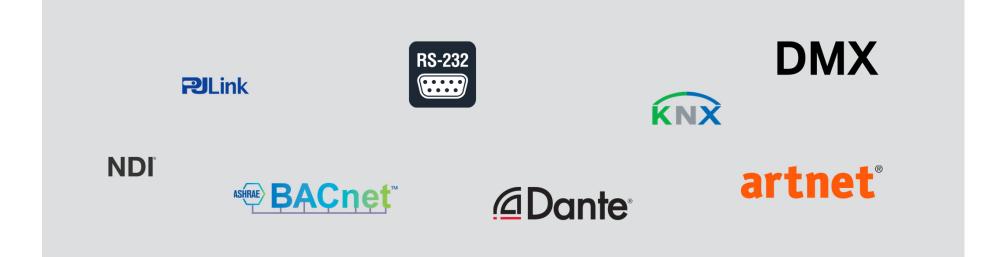


2 ISSUES + RESOLUTION



PROTOCOLS

PROTOCOLS



OFFLINE DEVICES





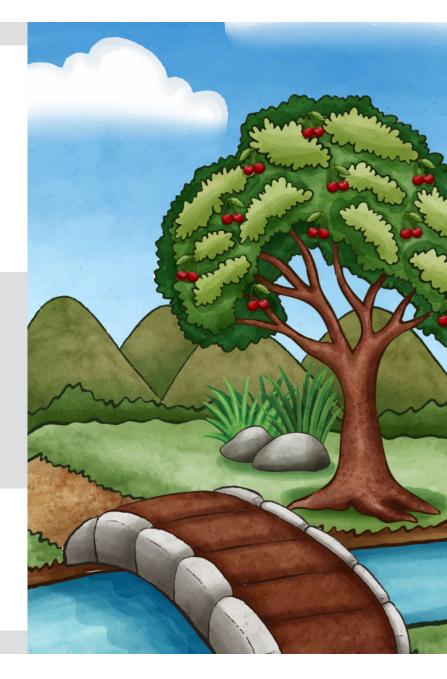


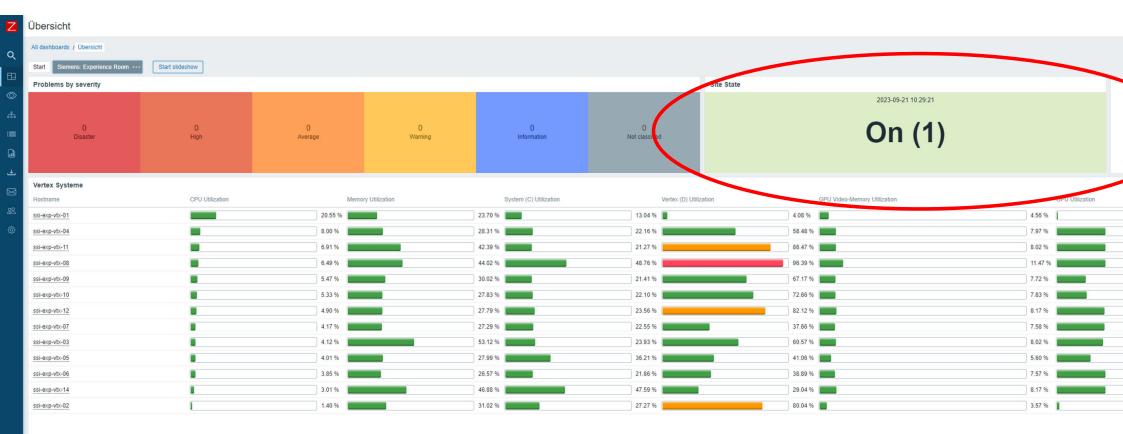
OUR SOLUTION

ZBX_BRIDGE

Software which can receive informations over an http GET, forward it to Zabbix

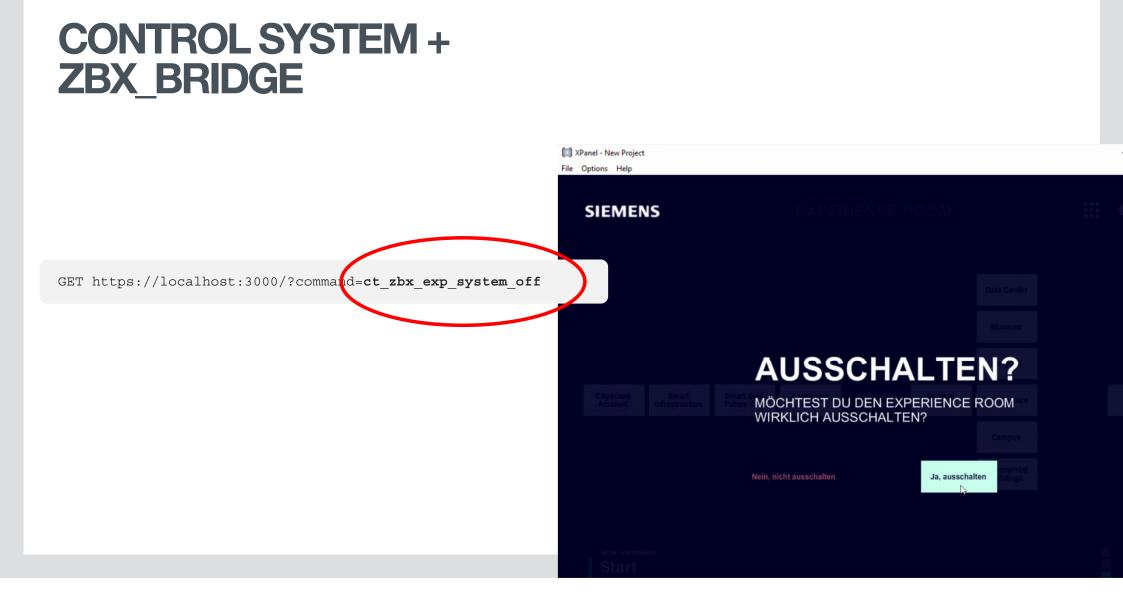
can send the value to Zabbix over zabbix_sender or the API change something inside Zabbix over the API, change the sending value, node.js based hosted somewhere in the network; possible together with the Zabbix Proxy,





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Zabbix 6.4.6. © 2001–2023, Zabbix SIA



ZBX_BRIDGE

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			÷.	ssi-exp-vx-04 🌽	Items 105	Triggers 33	G
"ct_zbx_exp_system_off":[:=	ssi-exp-tx-05 🌽	Items 105	Triggers 33	G
"type": "api",			a				
"method":"maintenance.update",	1			ssi-exp- tx-06 🤌	Items 105	Triggers 33	G
"params": { "maintenanceid": "13",	•		ىغە	📄 ssi-exp- tx-07 🤌	Items 101	Triggers 33	G
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"type": "sender",							
"key": "site.state",	0						
"value": 0,							
"name": "zbx-lprxzlm02.zbx.ch"				Sit otate			
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"type": "api", "method":"maintenance.update",							
"params": {					ODU LA	GPU Utiliz	
"maintenanceid": "13"		System (C) Utilization	Vertex ((D) Utilization	GPU Video-Memory Utilization	GPU Utiliz	ation

Z Hosts

ADD PROTOCOLS MONITORINGS

ITEMS/TRIGGERS/DSICV ERY RULES

SPLIT SCREENSHOTS FROM BRIDGE

ZBX_BRIDGE

pi@zbx-lprxnot01: ~/zbx-bridge

GNU nano 2.7.4

Datei: commands.json

"ct zbx anlagestatus aus": { "type": "sender", "key": "zbx-bridge.status.anlage", "name": "zbx-lprxnot01.zbx.ch" "type": "sender", "key": "zbx-bridge.status.anlage", "name": "zbx-lprxnot01.zbit.ch" "type": "sender", "key": "zbx-bridge.status.anlage", "name": "zbx-lprxnot01.zbx.ch" "type": "sender", "key": "zbx-bridge.status.lift", "name": "zbx-lprxnot01.zbx.ch" "ct zir liftsteuerung aktiv". ("type": "sender", "key": "zbx-bridge.status.lift", "name": "zbx-lprxnot01.zbx.ch"

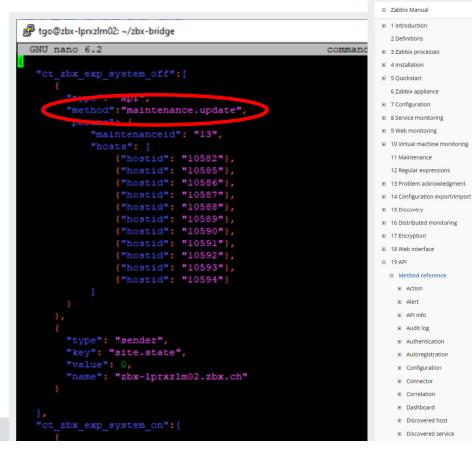
"ct zbx pre wa start"

WRONG IMGAGE. WILL BE UPDATED. WAITING FOR CUSTOMER

IMAGE

ZBX_BRIDGE V ZABBIX API

ZABBIX Documentation 6.4 (current) 🗸 English 🗸 🛃



Method reference

This section provides an overview of the functions provided by the Zabbix API and will help you find your way around the available classes and methods.

Monitoring

The Zabbix API allows you to access history and other data gathered during monitoring.

Dashboards

Manage dashboards and make scheduled reports based on them

Dashboard API | Template dashboard API | Report API

High availability cluster Retrieve a list of server nodes and their status.

High availability cluster API

History

Retrieve historical values gathered by Zabbix monitoring processes for presentation or further processing.

History API

Trends

Retrieve trend values calculated by Zabbix server for presentation or further processing.

Trend API Events

Retrieve events generated by triggers, network discovery and other Zabbix systems for more flexible situation management or third-party tool integration.

Event API

Problems

Retrieve problems according to the given parameters.

Problem API

Maps

Configure maps to create detailed dynamic representations of your IT infrastructure.

Map API

Tasks

Interact with Zabbix server task manager, creating tasks and retrieving response.

Task API

Services







github.com/tingo-gmbh/zabbix-templates

ZABBIX IN THE AV-INDUSTRY

THANK YOU!

www.tingo.ch

Planung garantiert keinen Erfolg, aber Planlosigkeit einen Misserfolg. Emst Beinhardt (*1932), Schweizer Publist und Anhoristiker