



**ZABBIX**  
PREMIUM PARTNER

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# Zabbix Online Meetup January 2026

# Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

all your microphones are muted

ask your questions in Q&A, not in the Chat

use Chat for discussion, networking or applause

# 1

# Customer request



# Customer request

## Pain points with IBM Netcool (current state)

- › **Legacy platform:** solution is outdated; upgrades are difficult/slow and bring high risk
- › **Limited flexibility:** hard to adapt to new requirements and evolving operations
- › **Vendor lock-in:** many “simple” changes cannot be done internally
  - › Every request requires an external vendor and adds cost + delays
- › **Customization is painful:** difficult to extend, integrate, or connect external systems
- › **High licensing and maintenance costs:** paying for licenses instead of improving the platform
- › **Slow time-to-value:** new dashboards/alerts/use cases take too long to deliver
- › **More than a basic visualization layer:** it comes with a web client, a desktop client, and a dedicated in-house web application.

# Customer request

## What the customer wants (future state)

- › Easy to maintain and upgrade with predictable lifecycle
- › L1-friendly operations: **similar workflows to Netcool**, but without old limitations
- › License-free / open source approach: **invest budget into functionality, automation, and scale – not licenses**
- › Modern UI & usability:
  - › **simple web app access**
  - › **easy user management (roles/permissions)**
  - › **dashboards and tailored visualizations for teams**
- › Full internal ownership:
  - › **understand how it works**
  - › **develop/customize internally without external dependency**
- › Strong integration capabilities:
  - › **robust API for data export and integration**
  - › **easy connection to TTS, CMDB, automation pipelines**

# Customer request

O<sub>2</sub>

**Customer:** “Zabbix is popular, but everyone tells us our use case **can't be done** with it. We'd be happy to hear your opinion – we want to give Zabbix a fair chance.” Internally, we've already spent about several months **testing it and evaluating other open-source alternatives.**”



**initMAX:** “After hearing how you operate and what you need, we already have a few ideas on how to implement it in Zabbix. The best next step is a joint, **free PoC to validate it** – and if it succeeds, we'll move forward together with the full-scale solution.”

# 2

# Architecture

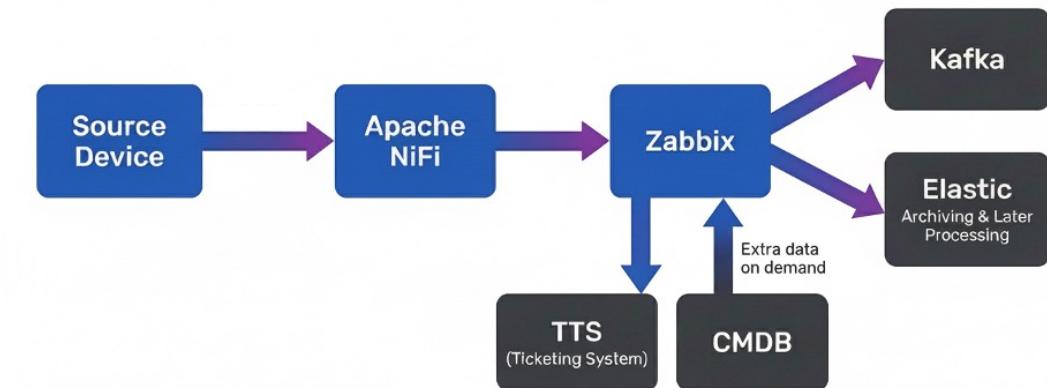


## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Architecture

### Architecture

- › Source data from **SNMP traps** is converted by a custom library using **MIBs** and **JSON-based transformation rules**.
- › **Apache NiFi** handles problem enrichment, data cleaning, and aggregation/counting.
- › **Zabbix** receives the processed data via **Zabbix trapper items** and uses it to evaluate triggers and manage the full problem lifecycle (create and close problems).
- › **Visualization** is provided through **custom widgets**, combined with additional Zabbix front-end modules.
- › We also integrate **TTS** and support ad-hoc retrieval of device information via **HTTP calls** to the **CMDB**.
- › **Kafka** and **Elasticsearch** are used later for reporting and additional downstream processing, while also preserving the original data stream as a source of truth.



# Architecture

## High Availability & Resilience

- › For this specific customer, we operate across three data centers (DCs) – each DC is capable of handling the full load of the entire stack (active/active-ready design).
- › Every component has **DEV/TEST** environments in addition to production.
- › The whole platform is driven by **GitOps**: changes are version-controlled, tested, and validated before deployment, minimizing human error.
- › Infrastructure provisioning is automated:
  - › device preconfiguration (“device prescript”)
  - › Ansible for VM provisioning and baseline configuration
- › Apache NiFi configuration is fully managed as code.
- › **Preprocessing:** 2x1 VM (active-standby), 6+6, 32 GB RAM, 8 vCPU
- › **Post-processing:** 2x1 VM (active-standby), 6+6, 32 GB RAM, 8 vCPU

# Architecture

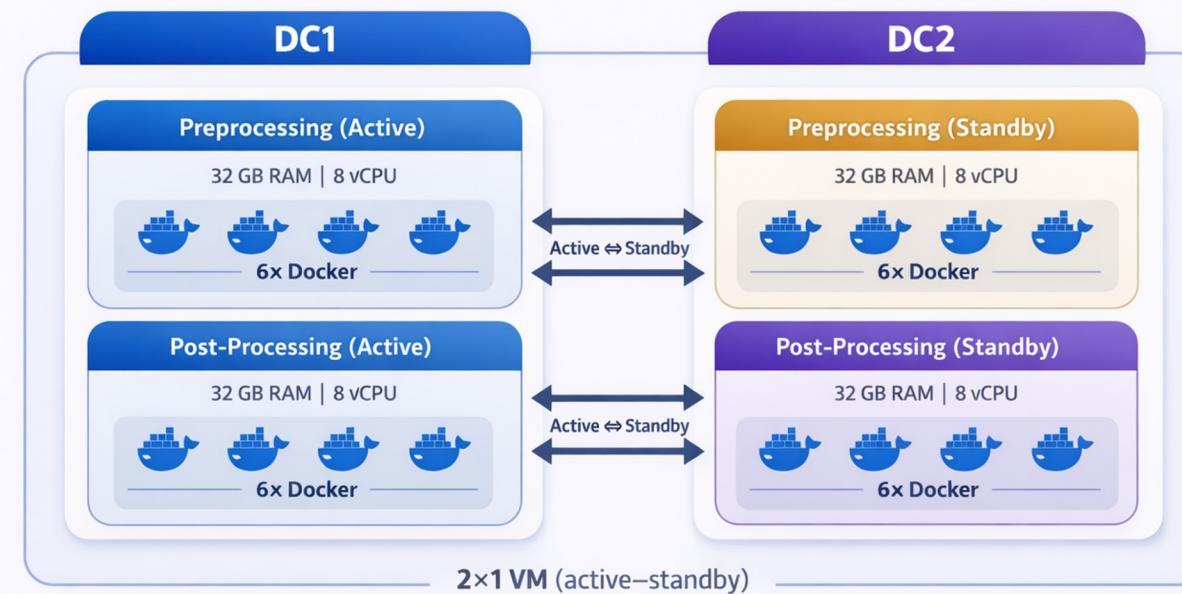
## High Availability & Resilience

- › Zabbix is deployed with high availability:
  - › 3 separate frontends
  - › 3 separate backend/server nodes
- › PostgreSQL backend runs on a Patroni cluster with 3 data nodes and automatic failover/switchover.
- › Traffic handling:
  - › frontend traffic is load-balanced
  - › backend traffic (port 10051) is routed to the active node
  - › both load balancers are implemented on F5 BIG-IP

## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Architecture

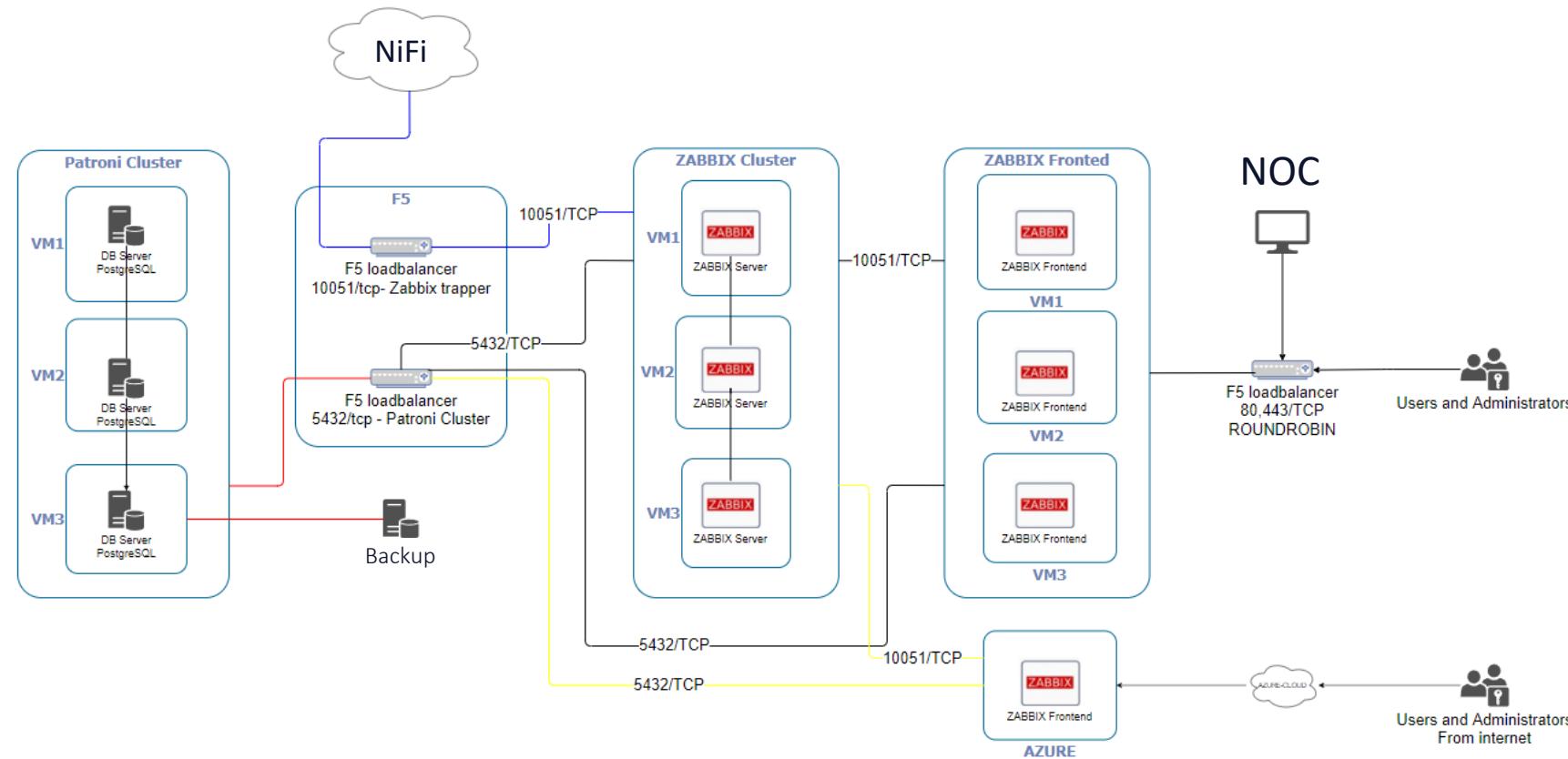
## High Availability – NiFi



## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Architecture

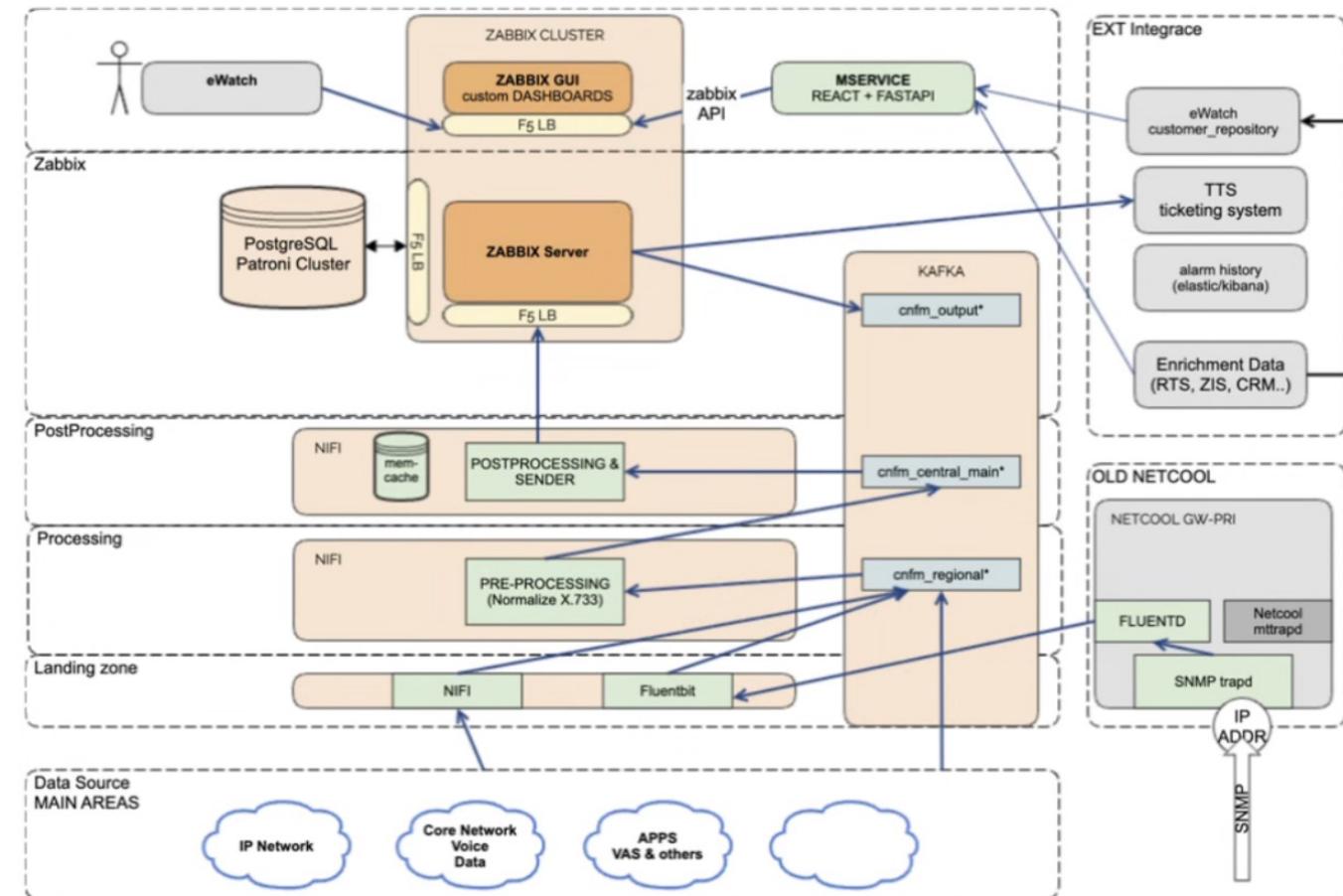
### High Availability - Zabbix



## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Architecture

### High Availability – All in one



# 3

## Problem Enrichment & Apache NiFi



# Problem Enrichment & Apache NiFi

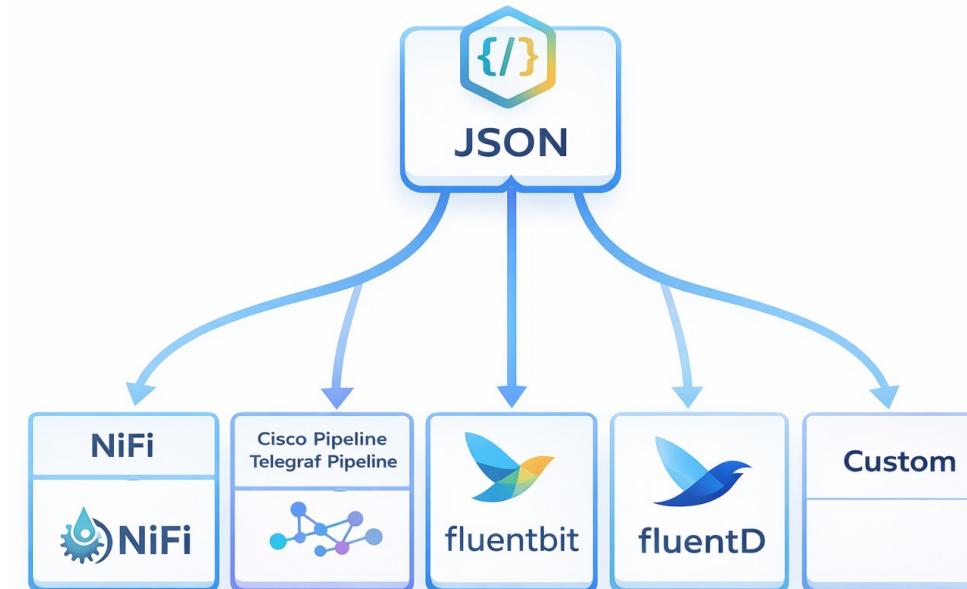
## Different inputs (heterogeneous sources)

- NiFi (1.2) pulling data via TCP/HTTP (TCP GET) (e.g., Core Network / MAE)
- Cisco pipeline / Telegraf pipeline for event-driven telemetry (IP infrastructure)
- Fluent Bit reading from files (e.g., exports/logs from network/Zabbix-related sources)
- Fluentd from SQL queries (e.g., openBMP)
- Fluentd from syslog
- SNMP polling + SNMP traps via “traps sonda” + MIB/OID translation (OID → readable fields)
- Kafka ingestion (direct writes to Kafka or reading from an existing Kafka source)

# Problem Enrichment & Apache NiFi

## The Output Matters – JSON

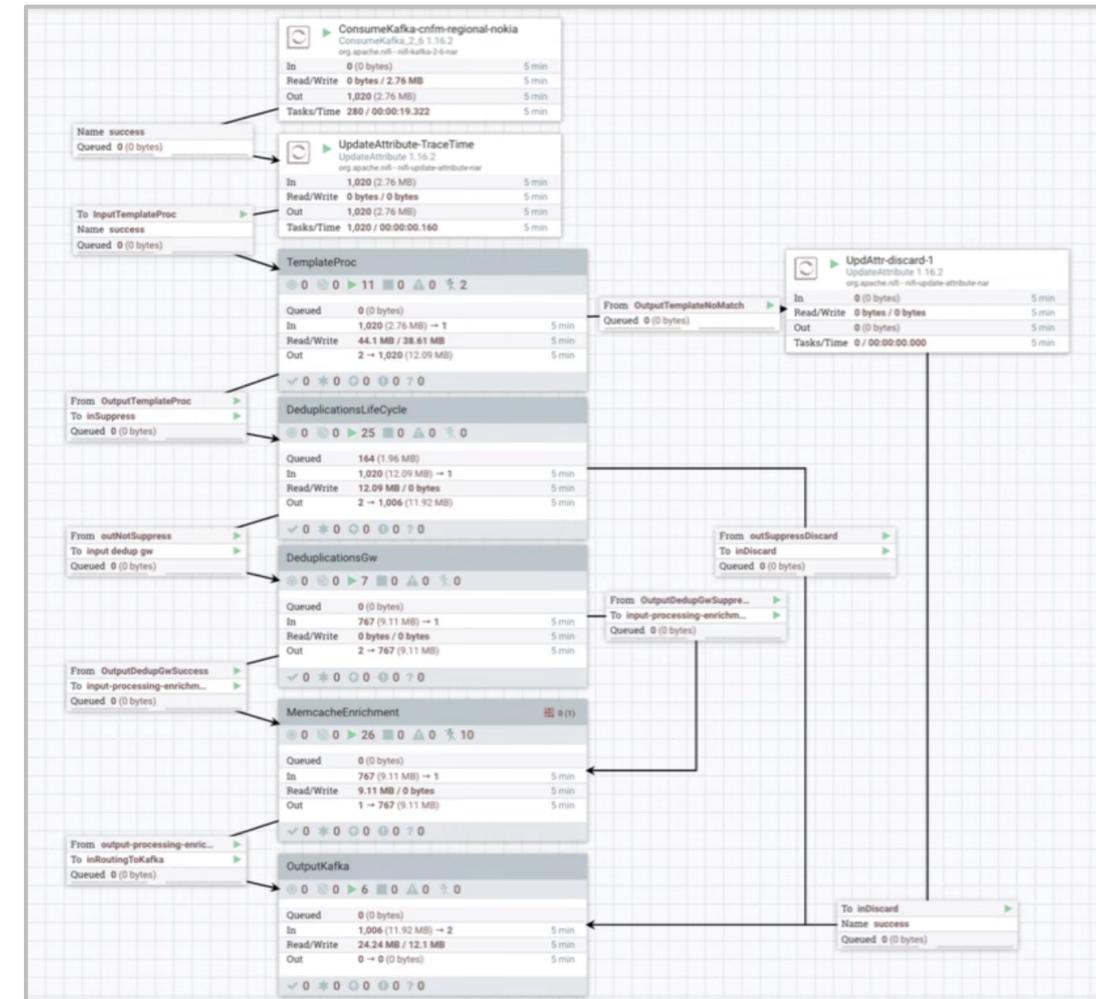
- › There are a million ways to collect data (agents, pipelines, open-source tools, custom scripts, APIs, SNMP, syslog, SQL, Kafka...).
- › We don't standardize *how* data is ingested – we standardize **what comes out**.
- › The only requirement: every source must produce a **JSON** event.



# Problem Enrichment & Apache NiFi

## Problem pre-processing

- › Consume data from Kafka (source topic)
- › Add a “Kafka ingest timestamp” (primarily for debugging/traceability)
- › Normalize the data (unify schema/fields/formats)
- › Deduplicate micro-outage duplicates (e.g., brief retransmits / short gaps)
- › Deduplicate identical events from multiple sources at the same time window (e.g., two HA firewalls emitting the same event)
- › Transform/enrich event payload (add customer-specific data/metadata)
- › Publish the final events to the main Kafka topic (canonical/output topic)



# Problem Enrichment & Apache NiFi

## Problem post-processing

- › Same concept as preprocessing (pipeline-style data handling)
- › Check whether the host exists; create it automatically if it doesn't
- › Call the Talli API (fetch/enrich required context)
- › Update events via API: change severity, acknowledge, and add/append an event message
- › Publish data to an external Kafka topic (for 3rd-party consumers)
- › Send data to Elasticsearch for archiving

# 4

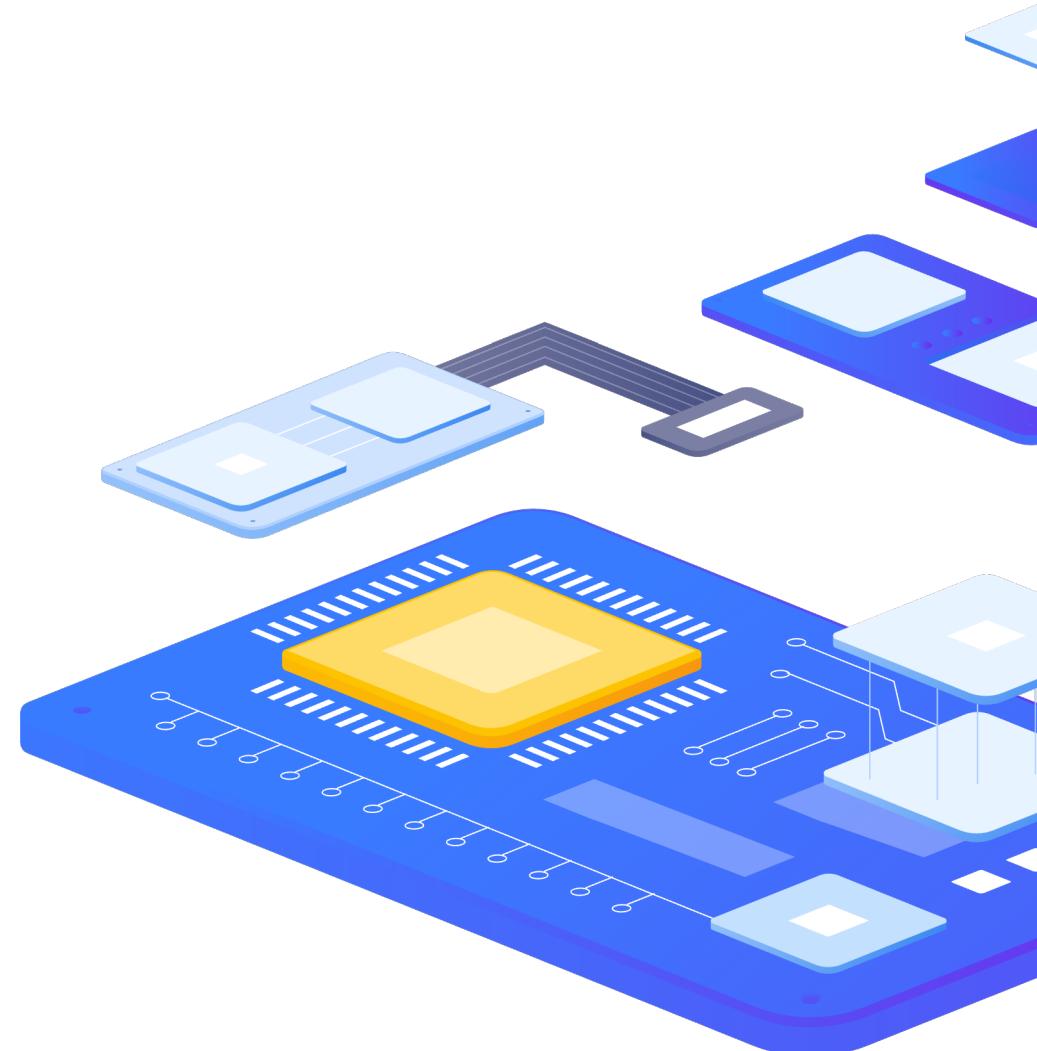
## Technical Solution in Zabbix



# Technical Solution in Zabbix

## Zabbix Architecture

- › Each host is linked to a template that contains a predefined **Zabbix trapper item**.
- › This item is evaluated by triggers that support **multiple event generation**.
- › To make each event unique, the event name and additional fields are extracted using **regular expressions**.
- › Trigger **tags** are also populated via regular expressions – these tag values carry key enrichment data coming from the upstream processing.
- › We use **six similar triggers**, each mapped to a different **severity level**, so the same logic can create problems with the correct priority.



# Technical Solution in Zabbix

## Zabbix Architecture - item

- Preprocessing is intentionally minimal: JSON validation only.

**Item**

Item Tags Preprocessing 1

\* Name: OSS RAW

Type: Zabbix trapper

\* Key: oss.raw

Select

Type of information: Text

\* History: Do not store Store up to: 1h

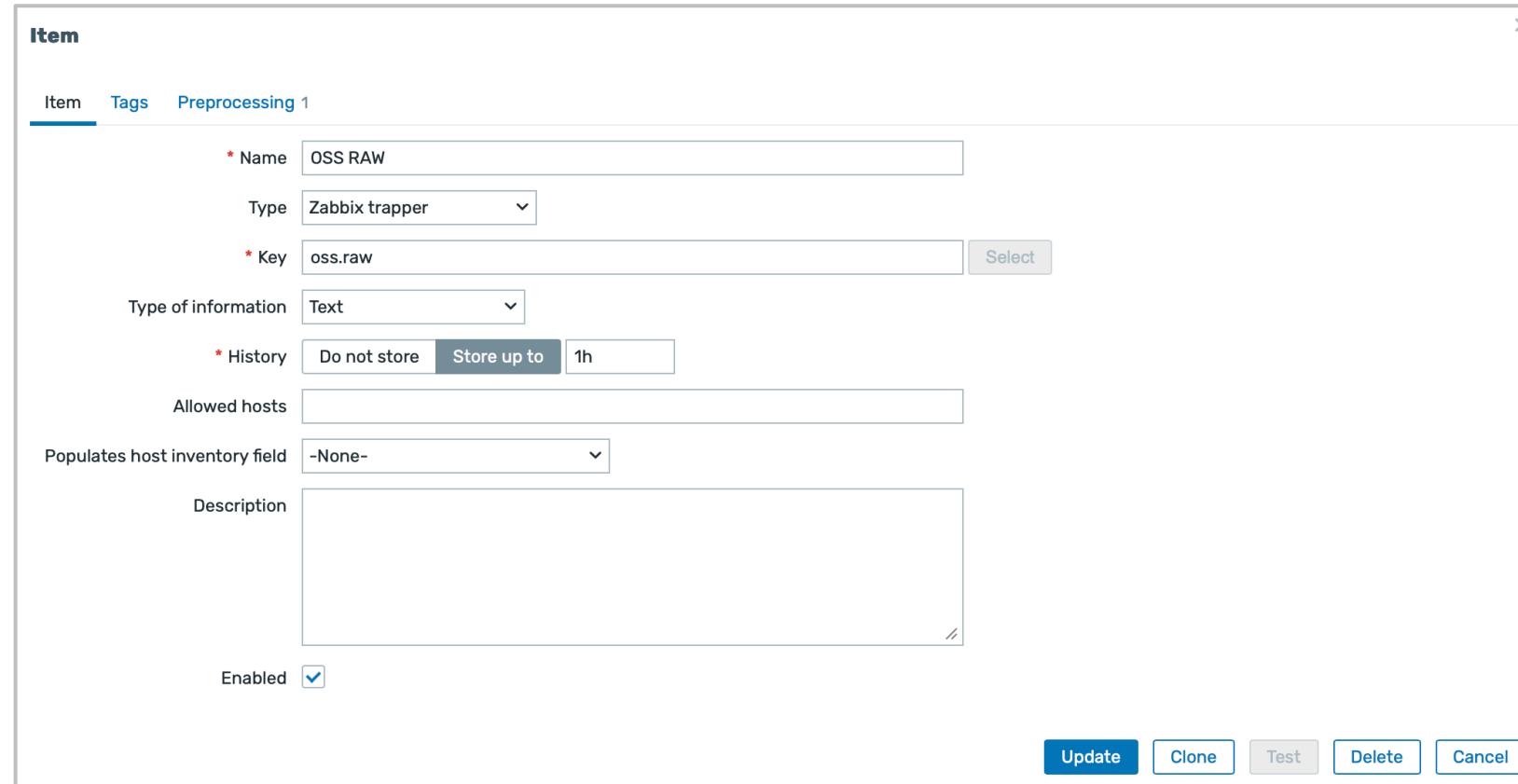
Allowed hosts:

Populates host inventory field: -None-

Description:

Enabled

Update Clone Test Delete Cancel



## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Technical Solution in Zabbix

## Zabbix Architecture - triggers

- “Not classified” covers cases where enrichment fields are not found during regex parsing.

Severity	Name ▲	Operational data	Expression	Status	Tags
Information	<code>((ITEM.VALUE1).regsub("\zs_summary": "(.*?)"",\1))</code>		Problem: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "CLEAR")&gt;1 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Indeterminate")=1</code> Recovery: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")=1</code>	Enabled	AlarmId: <code>((ITEM.VALUE1).regsub("\zs_alarmId": "(.*?)"",\1))</code> CaseId: <code>((ITEM.VALUE1).regsub("\zs_caseid": "(.*?)"",\1))</code> Dom1: <code>((ITEM.VALUE1).regsub("\zs_agent": "(.*?)"",\1))</code> ...
Disaster	<code>((ITEM.VALUE1).regsub("\zs_summary": "(.*?)"",\1))</code>		Problem: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")&gt;1 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Critical")=1</code> Recovery: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")=1</code>	Enabled	AlarmId: <code>((ITEM.VALUE1).regsub("\zs_alarmId": "(.*?)"",\1))</code> CaseId: <code>((ITEM.VALUE1).regsub("\zs_caseid": "(.*?)"",\1))</code> Dom1: <code>((ITEM.VALUE1).regsub("\zs_agent": "(.*?)"",\1))</code> ...
High	<code>((ITEM.VALUE1).regsub("\zs_summary": "(.*?)"",\1))</code>		Problem: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")&gt;1 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Major")=1</code> Recovery: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")=1</code>	Enabled	AlarmId: <code>((ITEM.VALUE1).regsub("\zs_alarmId": "(.*?)"",\1))</code> CaseId: <code>((ITEM.VALUE1).regsub("\zs_caseid": "(.*?)"",\1))</code> Dom1: <code>((ITEM.VALUE1).regsub("\zs_agent": "(.*?)"",\1))</code> ...
Average	<code>((ITEM.VALUE1).regsub("\zs_summary": "(.*?)"",\1))</code>		Problem: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")&gt;1 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Minor")=1</code> Recovery: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")=1</code>	Enabled	AlarmId: <code>((ITEM.VALUE1).regsub("\zs_alarmId": "(.*?)"",\1))</code> CaseId: <code>((ITEM.VALUE1).regsub("\zs_caseid": "(.*?)"",\1))</code> Dom1: <code>((ITEM.VALUE1).regsub("\zs_agent": "(.*?)"",\1))</code> ...
Warning	<code>((ITEM.VALUE1).regsub("\zs_summary": "(.*?)"",\1))</code>		Problem: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")&gt;1 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Warning")=1</code> Recovery: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")=1</code>	Enabled	AlarmId: <code>((ITEM.VALUE1).regsub("\zs_alarmId": "(.*?)"",\1))</code> CaseId: <code>((ITEM.VALUE1).regsub("\zs_caseid": "(.*?)"",\1))</code> Dom1: <code>((ITEM.VALUE1).regsub("\zs_agent": "(.*?)"",\1))</code> ...
Not classified	<code>((ITEM.VALUE1).regsub("\zs_summary": "(.*?)"",\1)) F ALLBACK!</code>		Problem: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")&gt;1 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Indeterminate")=0 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Warning")=0 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Minor")=0 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Major")=0 and find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity": "Critical")=0</code> Recovery: <code>find(/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition": "CLEAR")=1</code>	Enabled	AlarmId: <code>((ITEM.VALUE1).regsub("\zs_alarmId": "(.*?)"",\1))</code> CaseId: <code>((ITEM.VALUE1).regsub("\zs_caseid": "(.*?)"",\1))</code> Dom1: <code>((ITEM.VALUE1).regsub("\zs_agent": "(.*?)"",\1))</code> ...

# Technical Solution in Zabbix

## Zabbix Architecture – trigger detail

- The event name is generated using the `regsub()` function, and the trigger runs in multiple event generation mode.
- Problem closing is performed only when a matching recovery/close event arrives with the same `AlarmId` (correlation key).

**Trigger**

- Trigger** Tags 6 Dependencies

\* Name `((ITEM.VALUE1).regsub("\zs_summary\:(.*?)\",\1))`

Event name `((ITEM.VALUE1).regsub("\zs_summary\:(.*?)\",\1))`

Operational data

Severity Not classified Information Warning Average High Disaster

\* Problem expression `find(/O2-ITEMHOST-OSS-V2/oss.raw,, "like", "\zs_stateChangeDefinition\:" "CLEAR")>>1 and find(/O2-ITEMHOST-OSS-V2/oss.raw,, "like", "\zs_perceivedSeverity\:" "Critical")=1` Add

[Expression constructor](#)

OK event generation Expression Recovery expression None

\* Recovery expression `find(/O2-ITEMHOST-OSS-V2/oss.raw,, "like", "\zs_stateChangeDefinition\:" "CLEAR")=1` Add

[Expression constructor](#)

PROBLEM event generation mode Single Multiple

OK event closes All problems All problems if tag values match

\* Tag for matching `AlarmId`

Allow manual close

Update Clone Delete Cancel

# Technical Solution in Zabbix

## Zabbix Architecture – trigger detail

- ▶ In this example, we add multiple additional **tags** later, which are then used for **event filtering** and routing to a specific area/team.

**Trigger**

Trigger Tags 6 Dependencies

Trigger tags Inherited and trigger tags

Tags	Name	Value	Remove
	AlarmsId	<code>{{ITEM.VALUE1}}.regsub("\\zs_alarmId\\":\\\"(.*)\\\",\\1)</code>	Remove
	CasesId	<code>{{ITEM.VALUE1}}.regsub("\\zs_caseid\\":\\\"(.*)\\\",\\1)</code>	Remove
	Dom1	<code>{{ITEM.VALUE1}}.regsub("\\zs_agent\\":\\\"(.*)\\\",\\1)</code>	Remove
	Dom2	<code>{{ITEM.VALUE1}}.regsub("\\zs_domain_id\\":\\\"(.*)\\\",\\1)</code>	Remove
	EventType	<code>{{ITEM.VALUE1}}.regsub("\\zs_eventType\\":\\\"(.*)\\\",\\1)</code>	Remove
	Identifier	<code>{{ITEM.VALUE1}}.regsub("\\zs_identifier\\":\\\"(.*)\\\",\\1)</code>	Remove

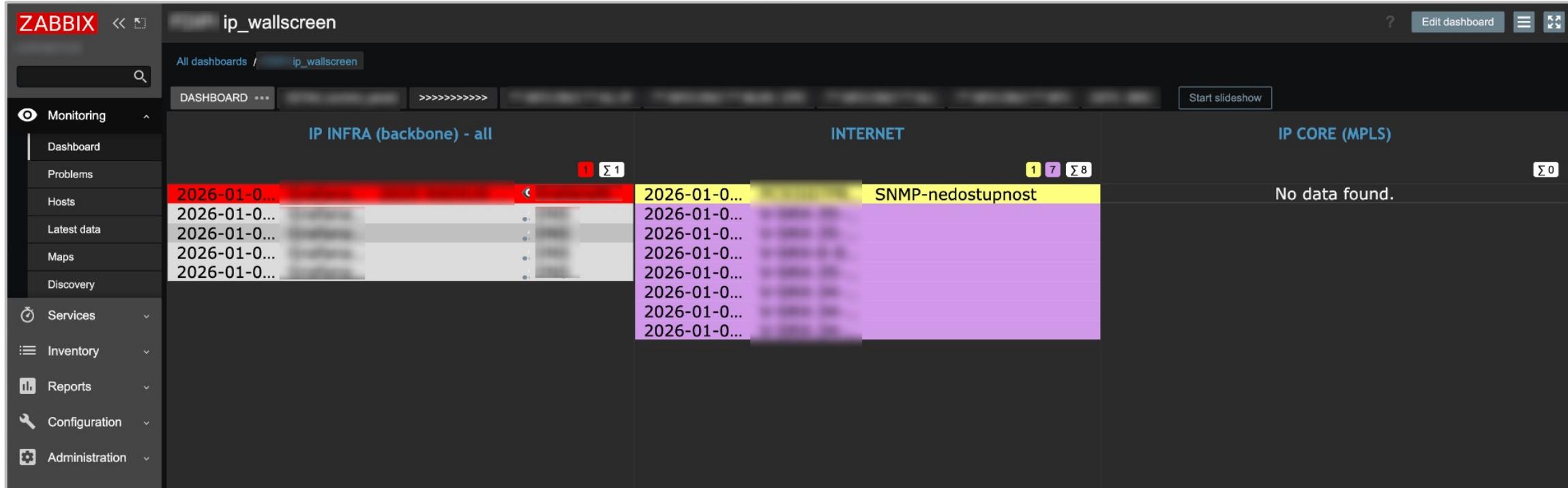
Add

Update Clone Delete Cancel

Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

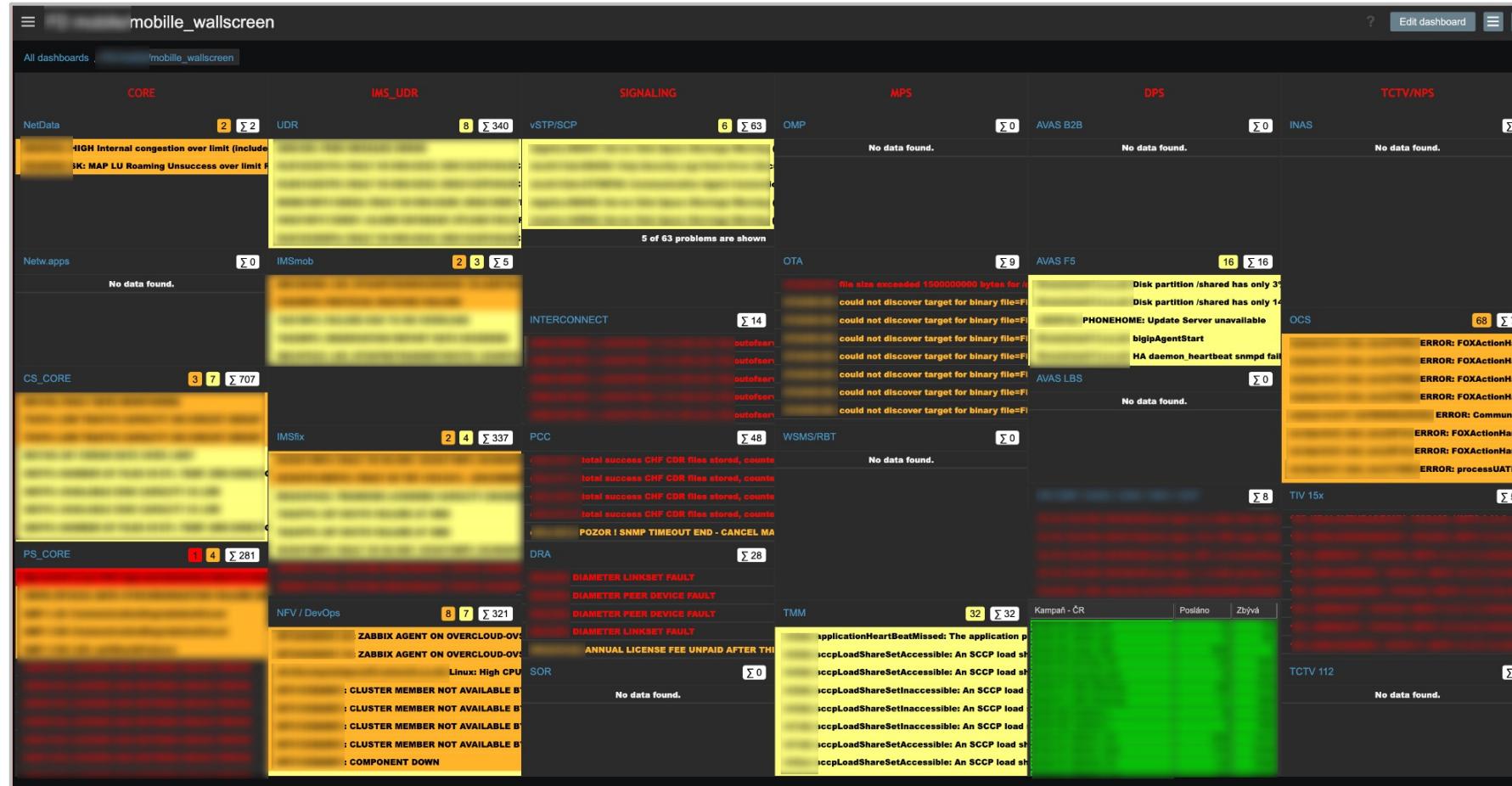
# Technical Solution in Zabbix

## Zabbix Architecture – Custom widget



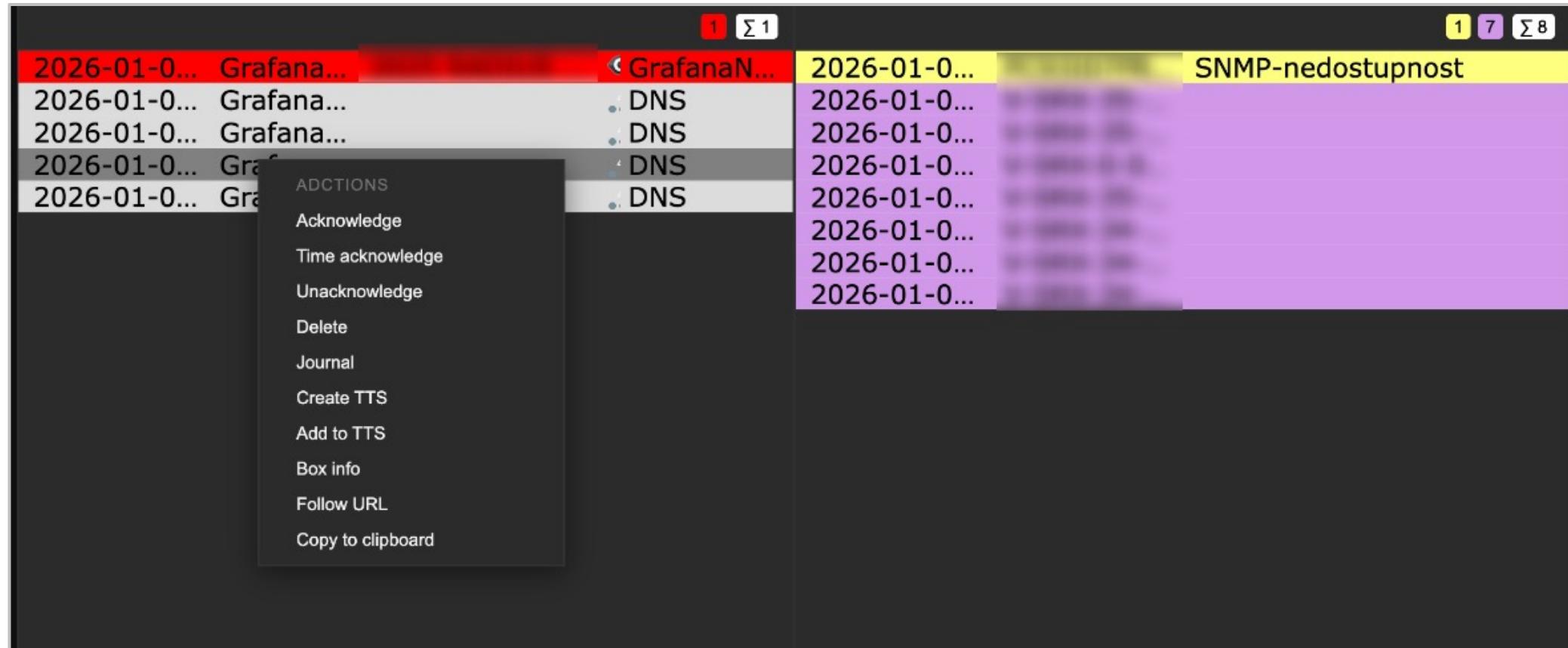
# Technical Solution in Zabbix

## Zabbix Architecture – Custom widget



# Technical Solution in Zabbix

## Zabbix Architecture – Custom scripts



## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Technical Solution in Zabbix

- › Based on built-in Problem widget
- › New feature counter events by severities and total events with variations of Ack and Nonack options

**Add widget**

**Display options**

- Refresh interval: Default (1 minute)
- \* Maximum displayed alarm count: 1000 We override default limit from Zabbix
- Acknowledge problem style: Monochromatic  Color
- Font: Arial
- \* Font size: 10

**Show summary row**

Description:

Display severities count:  None  Nonack only  Ack only  Nonack + Ack

Display total events count:  None  Nonack only  Ack only  Nonack + Ack

**Columns and order**

Name	Width	Custom Label
<input checked="" type="checkbox"/> Time	0 %	Time
<input checked="" type="checkbox"/> Host	0 %	Host
<input checked="" type="checkbox"/> Problem and severity	0 %	Problem
<input type="checkbox"/> Actions icons	0 %	Event icons
<input type="checkbox"/> Tags	0 %	Tags

Percentage total: 0 %

**Add** **Cancel**

**Summit 2022**

[Edit dashboard](#)   

**Enhanced Problems**

Time ▲ Host Problem Actions

1 2 3 4 Total count: 10

Time	Host	Problem	Actions
2022-09-29 14:15:51	Summit-host-02	Event is - Warning	6
2022-10-05 11:00:42	Summit-host-04	Event is - Warning	1
2022-10-05 11:00:46	Summit-host-06	Event is - Not classified	
2022-10-05 11:00:49	Summit-host-07	Event is - High	
2022-10-05 11:00:50	Summit-host-01	Event is - Not classified	
2022-10-05 11:00:51	Summit-host-03	Event is - Disaster	
2022-10-05 11:00:52	Summit-host-05	Event is - Warning	
2022-10-05 11:00:53	Summit-host-09	Event is - Not classified	
2022-10-05 11:00:54	Summit-host-04	Event is - Warning	
2022-10-05 11:00:55	Summit-host-01	Event is - Not classified	
2022-10-05 11:00:56	Summit-host-08	Event is - High	

## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Technical Solution in Zabbix

- › Based on built-in Problem widget
- › New feature choose desired columns you need with custom order, column width and label

**Edit widget**

Display options

- Refresh interval: Default (1 minute)
- \* Maximum displayed alarm count: 1000 (We override default limit from Zabbix)
- Acknowledge problem style: Monochromatic (Color)
- Font: Arial
- \* Font size: 10

Show summary row:

Description:

Display severities count:

Display total events count:

Columns and order

Name	Width	Custom Label
<input checked="" type="checkbox"/> Time	10	% Time
<input checked="" type="checkbox"/> Host	10	% Host
<input checked="" type="checkbox"/> Problem	20	% Problem
<input type="checkbox"/> Actions icons	10	% Event icons
<input type="checkbox"/> Tags	50	% Tags

**Apply** **Cancel**

**Summit 2022**

All dashboards / Summit 2022

**Enhanced Problems**

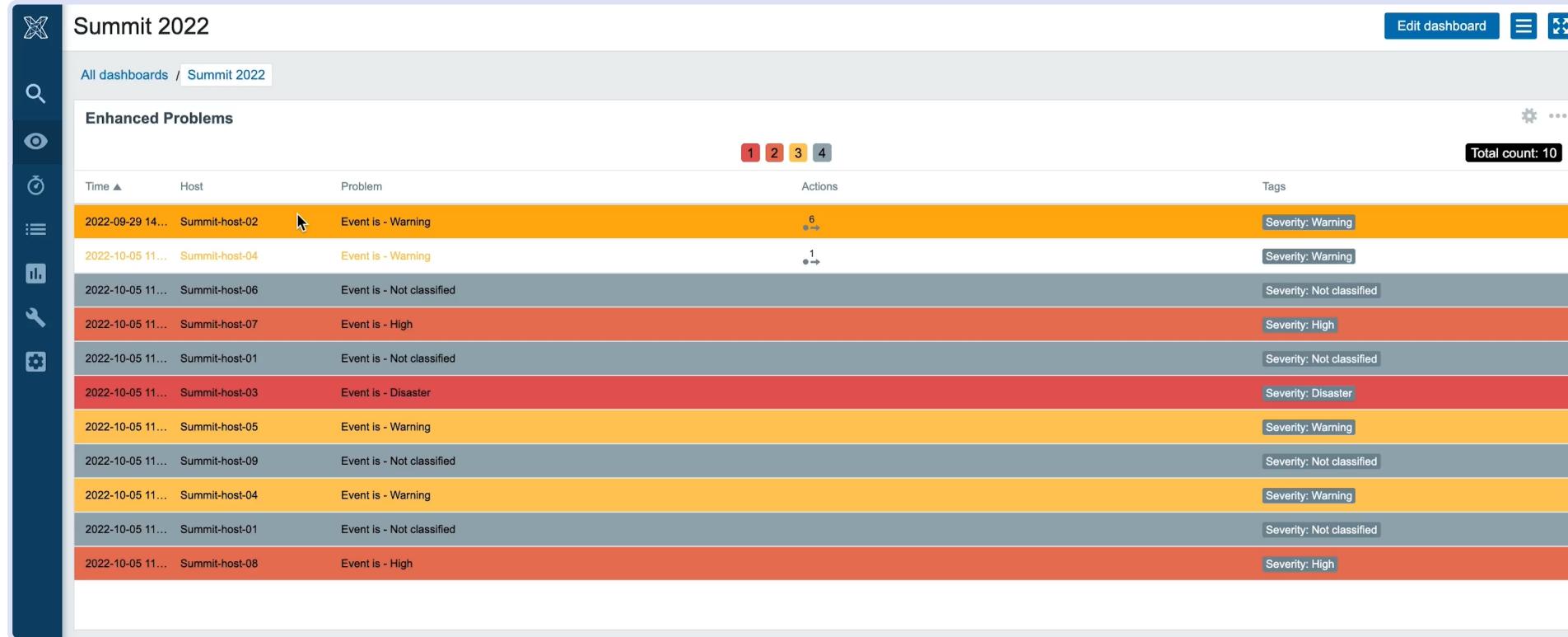
Time ▲ 1 2 4 4 Total count: 11

Time	Host	Problem
2022-09-29 14:15:51	Summit-host-02	Event is - Warning
2022-10-05 11:00:42	Summit-host-04	Event is - Warning
2022-10-05 11:00:46	Summit-host-06	Event is - Not classified
2022-10-05 11:00:49	Summit-host-07	Event is - High
2022-10-05 11:00:50	Summit-host-01	Event is - Not classified
2022-10-05 11:00:51	Summit-host-03	Event is - Disaster
2022-10-05 11:00:52	Summit-host-05	Event is - Warning
2022-10-05 11:00:53	Summit-host-09	Event is - Not classified
2022-10-05 11:00:54	Summit-host-04	Event is - Warning
2022-10-05 11:00:55	Summit-host-01	Event is - Not classified
2022-10-05 11:00:56	Summit-host-08	Event is - High

## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Technical Solution in Zabbix

- ▶ Provides modern user comfort - operator can select multiple events by combination of mouse dragging and mouse clicking within pressed CTRL or SHIFT keys
- ▶ Context menu is available on right-click by mouse and operator can easily make bulk operations



The screenshot shows the Zabbix 'Enhanced Problems' dashboard for the 'Summit 2022' monitoring environment. The dashboard lists 10 events, each with a timestamp, host name, problem description, actions taken, and associated tags. The events are color-coded by severity: orange for Warning, red for High, and grey for Not classified and Disaster. The 'Actions' column shows the count of actions taken for each event, with a tooltip indicating the total count of 10 actions across all events.

Time	Host	Problem	Actions	Tags
2022-09-29 14...	Summit-host-02	Event is - Warning	6	Severity: Warning
2022-10-05 11...	Summit-host-04	Event is - Warning	1	Severity: Warning
2022-10-05 11...	Summit-host-06	Event is - Not classified		Severity: Not classified
2022-10-05 11...	Summit-host-07	Event is - High		Severity: High
2022-10-05 11...	Summit-host-01	Event is - Not classified		Severity: Not classified
2022-10-05 11...	Summit-host-03	Event is - Disaster		Severity: Disaster
2022-10-05 11...	Summit-host-05	Event is - Warning		Severity: Warning
2022-10-05 11...	Summit-host-09	Event is - Not classified		Severity: Not classified
2022-10-05 11...	Summit-host-04	Event is - Warning		Severity: Warning
2022-10-05 11...	Summit-host-01	Event is - Not classified		Severity: Not classified
2022-10-05 11...	Summit-host-08	Event is - High		Severity: High

## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Technical Solution in Zabbix

- Multi-level sorting of events for every columns
- Ability to change ascending or descending direction for each level of sorting

**Edit widget**

Tag name:

Tag display priority:

Next sections are developed by initMAX s.r.o.

Sorting:      
 2nd level sorting

Display options: Refresh interval:        We override default limit from Zabbix  
 Maximum displayed alarm count:   
 Acknowledge problem style:    
   
 Show summary row:   
  
 Display severities count:      
 Display total events count:      

Columns and order:

**Summit 2022**

All dashboards / **Summit 2022**

**Enhanced Problems**

Time ▲ Host Problem Actions Tags Total count: 10

Time	Host	Problem	Actions	Tags
2022-09-29 14:15:51	Summit-host-02	Event is - Warning	6 ↗	Severity: Warning
2022-10-05 11:00:42	Summit-host-04	Event is - Warning	1 ↗	Severity: Warning
2022-10-05 11:00:46	Summit-host-06	Event is - Not classified		Severity: Not classified
2022-10-05 11:00:49	Summit-host-07	Event is - High		Severity: High
2022-10-05 11:00:50	Summit-host-01	Event is - Not classified		Severity: Not classified
2022-10-05 11:00:51	Summit-host-03	Event is - Disaster		Severity: Disaster
2022-10-05 11:00:52	Summit-host-05	Event is - Warning		Severity: Warning
2022-10-05 11:00:53	Summit-host-09	Event is - Not classified		Severity: Not classified
2022-10-05 11:00:54	Summit-host-04	Event is - Warning		Severity: Warning
2022-10-05 11:00:55	Summit-host-01	Event is - Not classified		Severity: Not classified
2022-10-05 11:00:56	Summit-host-08	Event is - High		Severity: High

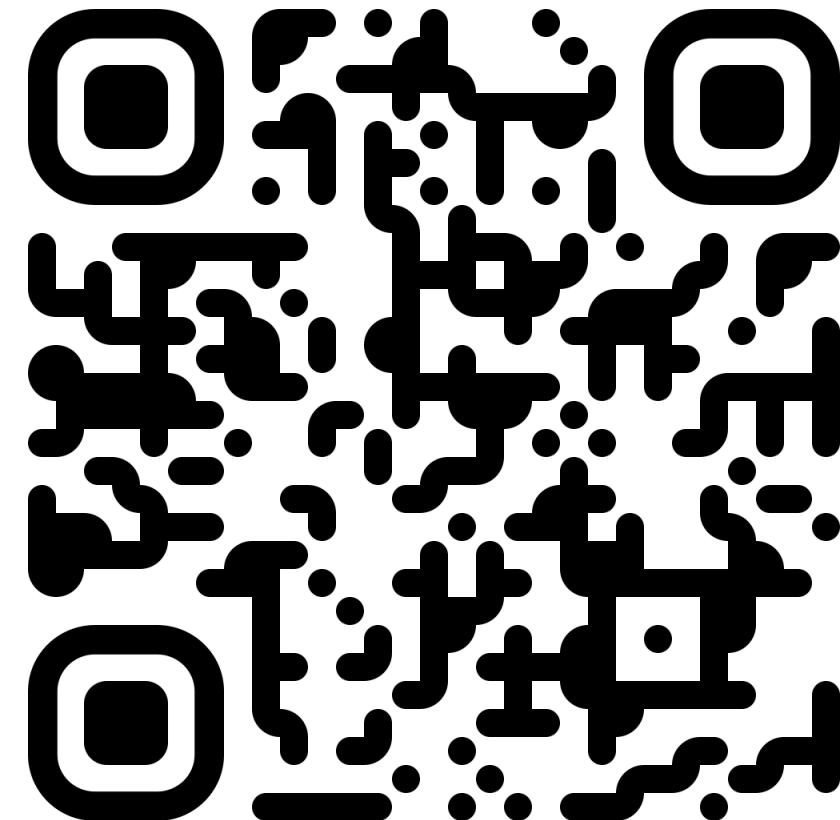
## Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Example

- › Every our example is freely available in our GIT repository
- › <https://git.initmax.com/initMAX-Public>
- › Source code is commented and provides examples

- › Widget Header  
<https://git.initmax.com/initMAX-Public/Zabbix-UI-Modules-Header-Widget>
- › Zabbix Compact Dashboard  
<https://git.initmax.com/initMAX-Public/Zabbix-UI-Modules-Compact-Dashboard>
- › Enhanced Problems  
<https://git.initmax.cz/initMAX-Public/Zabbix-UI-Widgets-Enhanced-Problems>



# 5

## Customer Satisfaction & Outcomes



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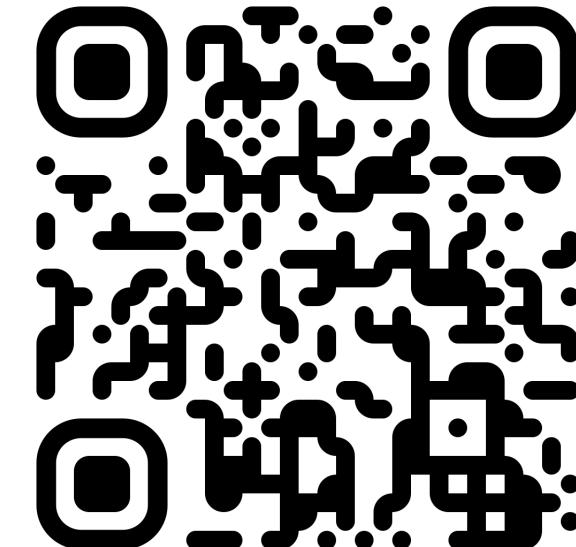
- › Small internal team fully operates the umbrella monitoring stack.
- › Full in-house control: config changes, outages, upgrades – no vendor lock-in.
- › NiFi logic enables new data sources/device onboarding with zero downtime.
- › Upgrade in progress: Zabbix 6.0 → 7.0, incl. `history.push` + PostgreSQL improvements.
- › Multiple department Zabbix instances feed the umbrella Zabbix (central monitoring hub).
- › **Cost savings:** license-free platform, lower ops overhead, no unnecessary vendor spend.
- › As initMAX: support, upgrades, performance tuning, plus training and custom integrations/widgets.
- › **~80% lower TCO:** Zabbix + initMAX support vs. previous licenses + support.

Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

# Customer Satisfaction & Outcomes

## Customer Satisfaction & Outcomes – Case Study

- › We're in the final stage of publishing an **O2** video case study with more project details – it will be available soon on our [LinkedIn](#) and [website](#).
- › If you'd like more webinars and updates, follow us on [LinkedIn](#).



<https://www.linkedin.com/company/initmax/>

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