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Zabbix Online Meetup January 2026

Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

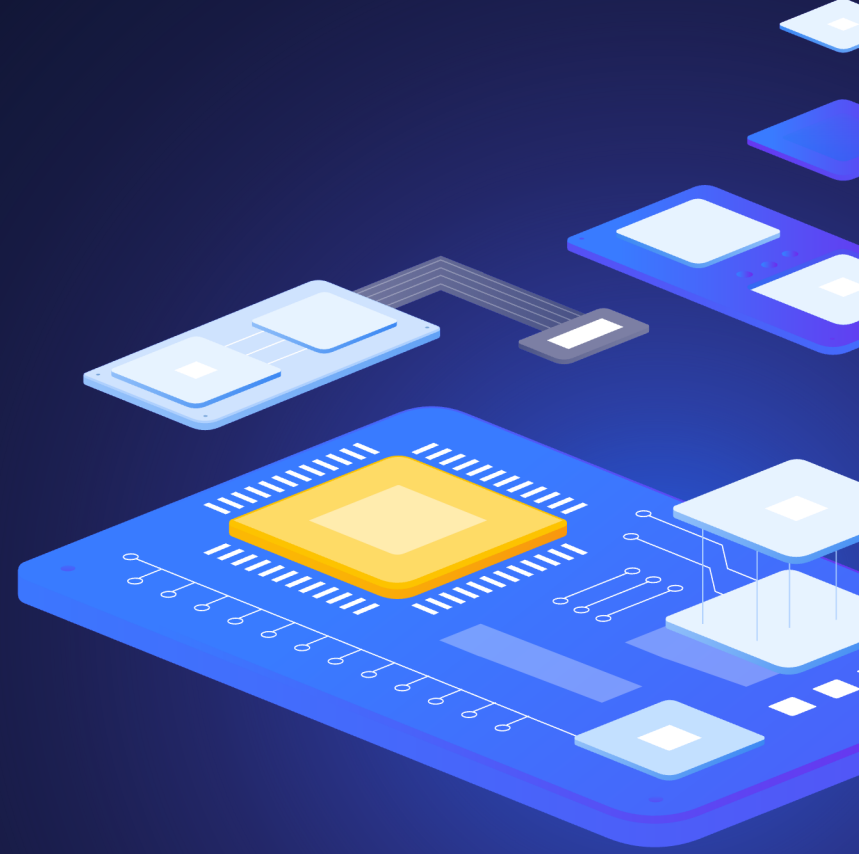
all your microphones are muted

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- › **Legacy platform:** solution is outdated; upgrades are difficult/slow and bring high risk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

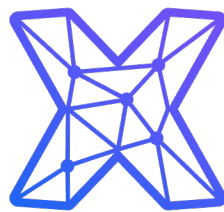
What the customer wants (future state)

- › 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

O₂

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.**”

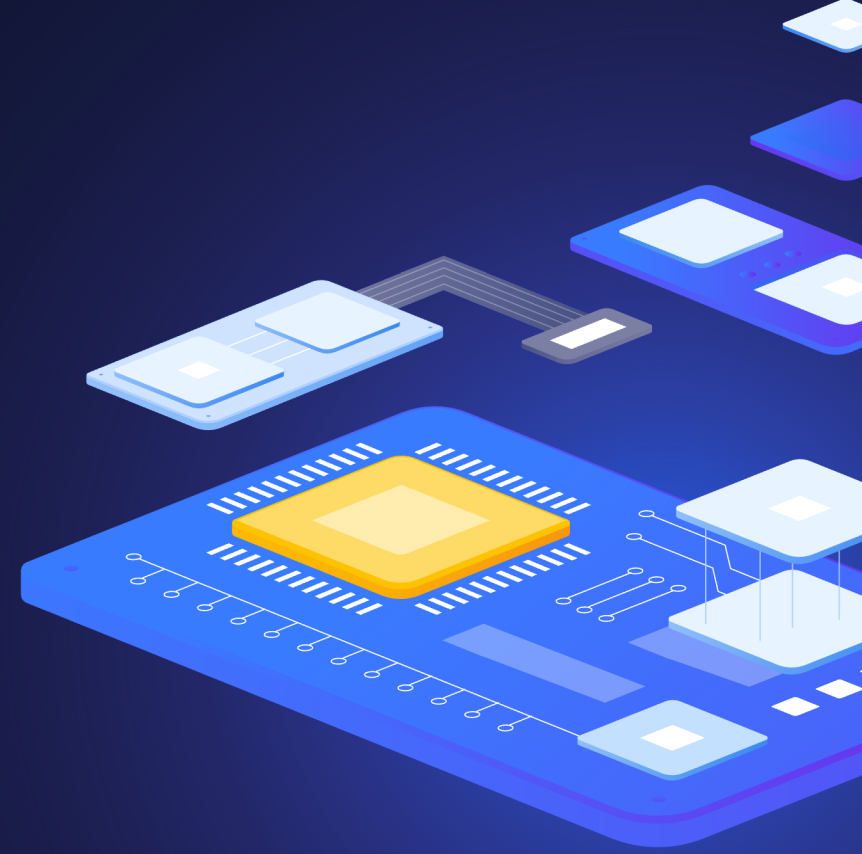


initMAX

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.”

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Architecture

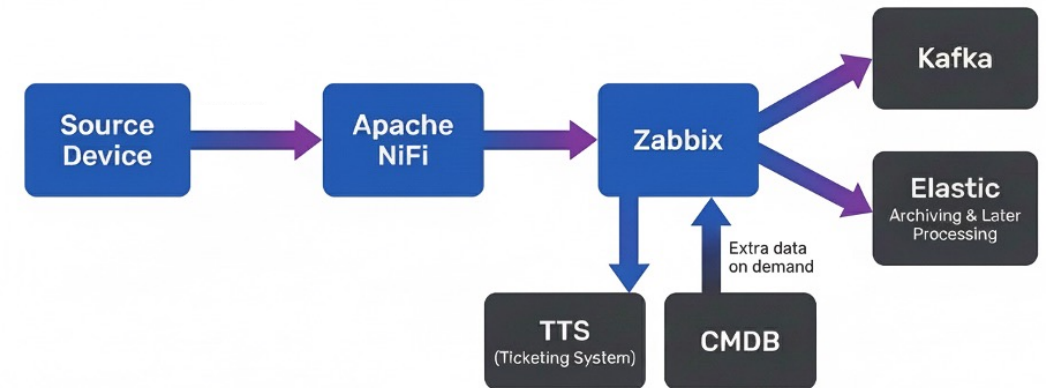


Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

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**: 2×1 VM (active-standby), 6+6, 32 GB RAM, 8 vCPU
- › **Post-processing**: 2×1 VM (active-standby), 6+6, 32 GB RAM, 8 vCPU

Architecture

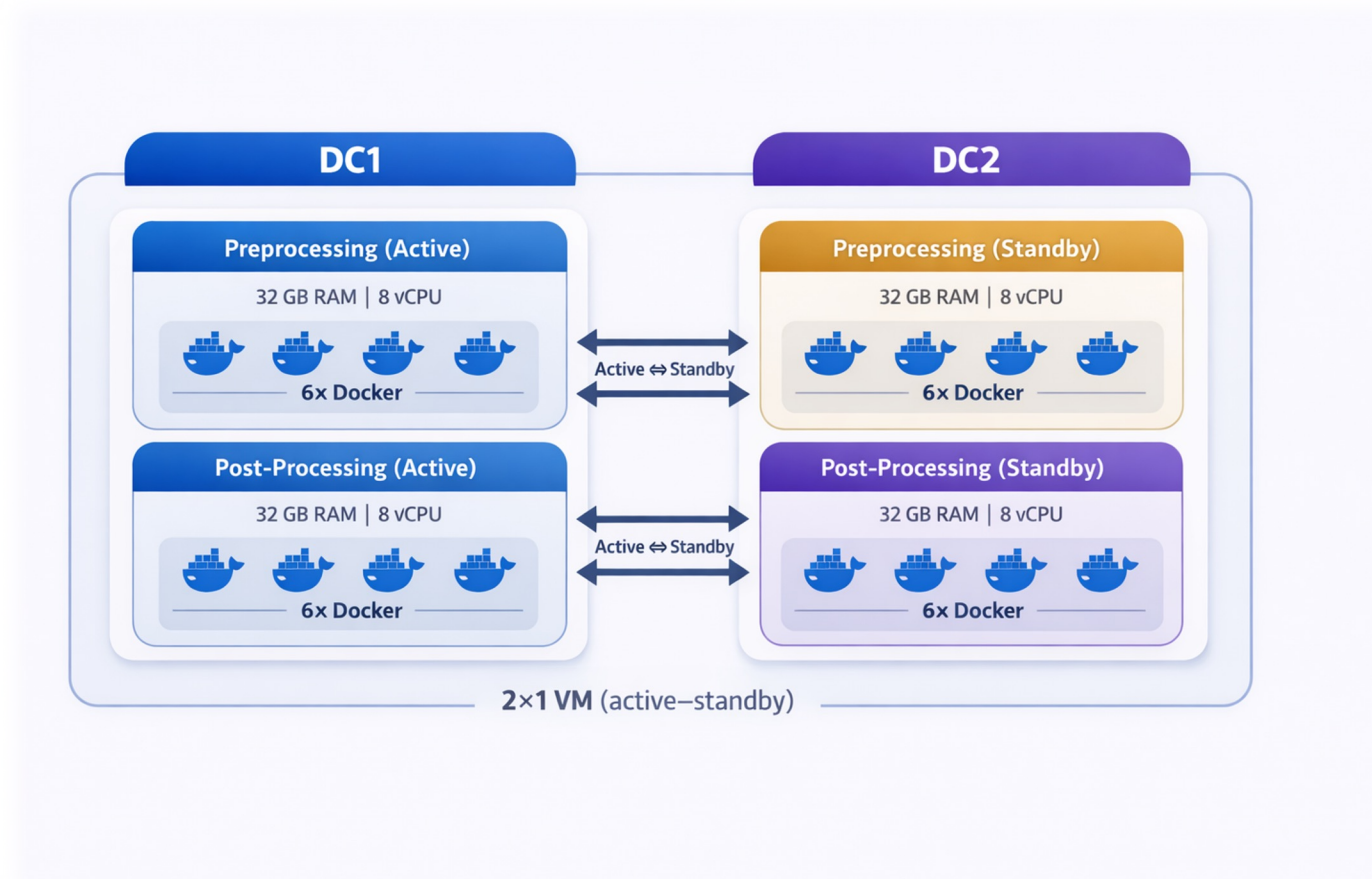
High Availability & Resilience

- › 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

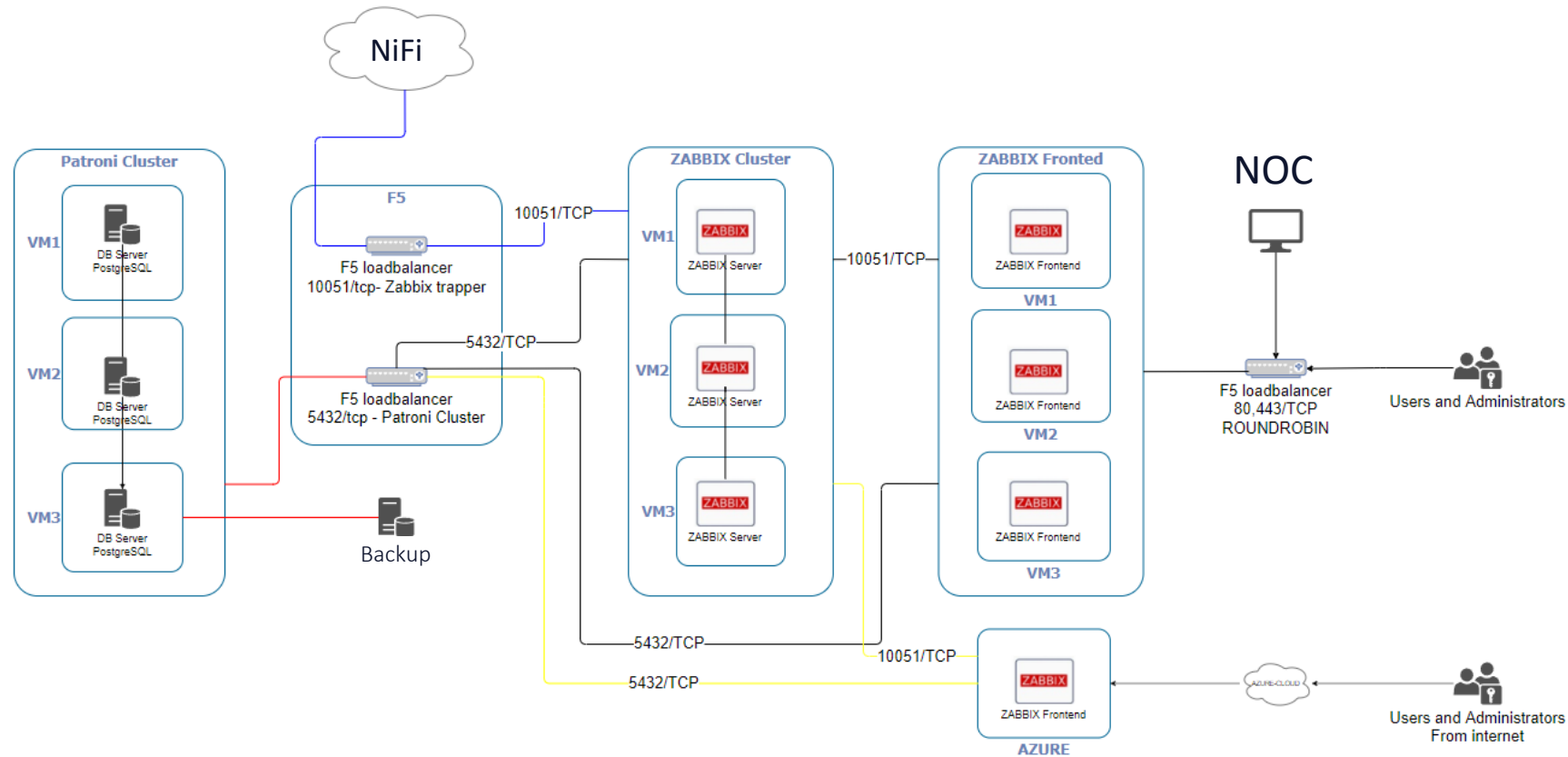
High Availability – NiFi



Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

Architecture

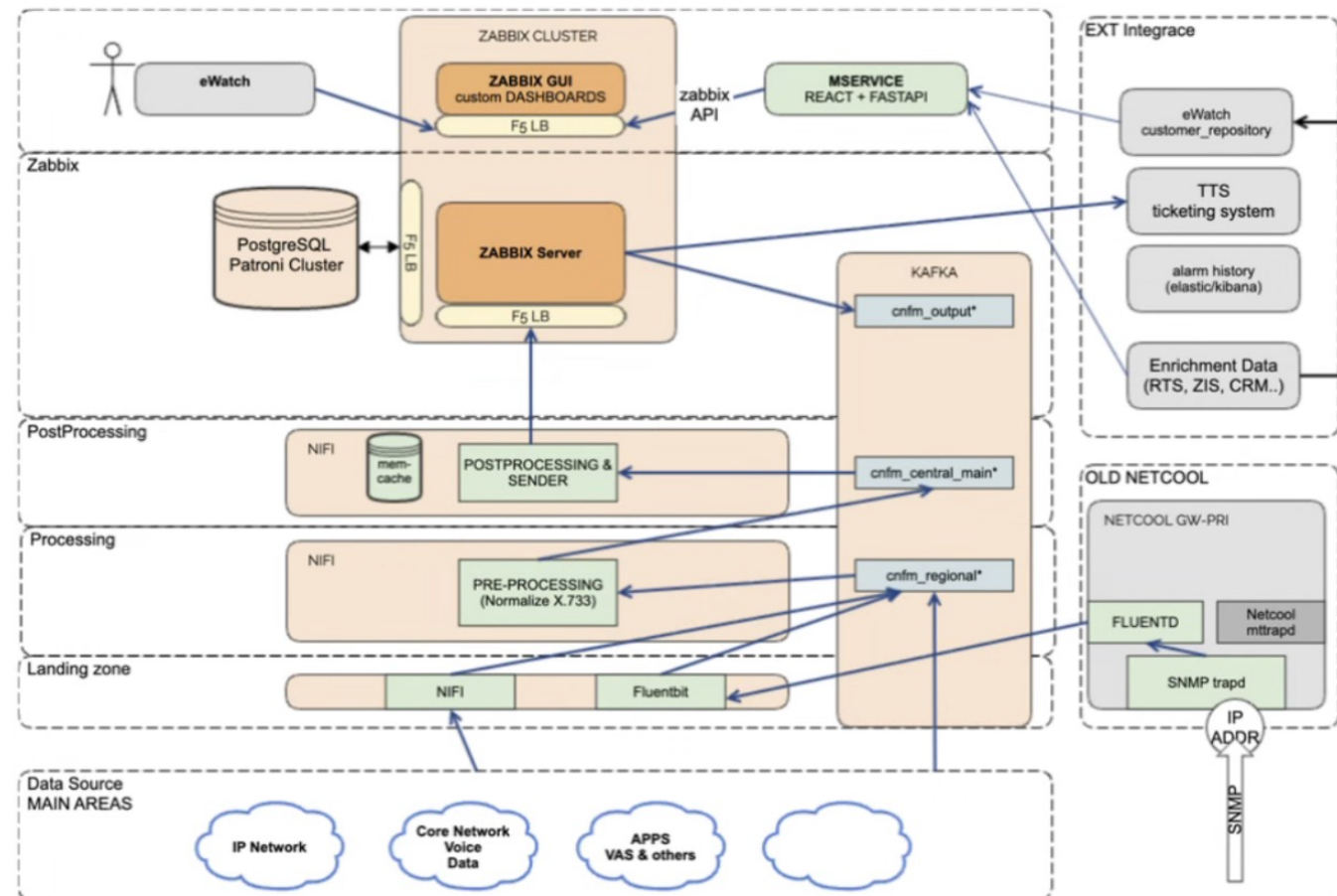
High Availability - Zabbix



Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

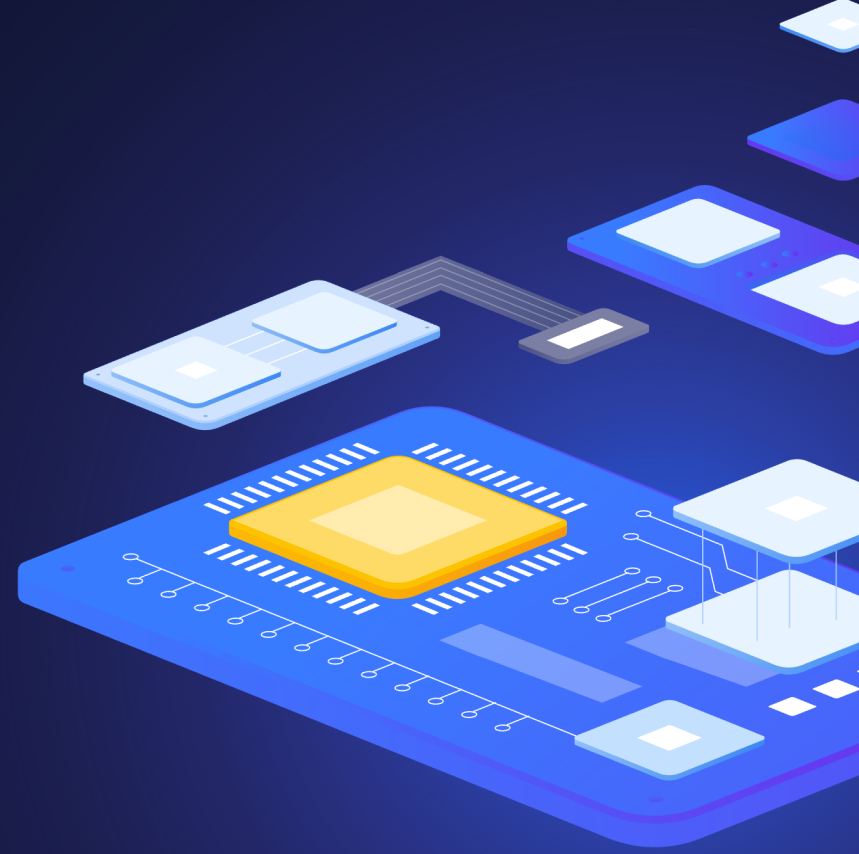
Architecture

High Availability – All in one



3

Problem Enrichment & Apache NiFi



Problem Enrichment & Apache NiFi

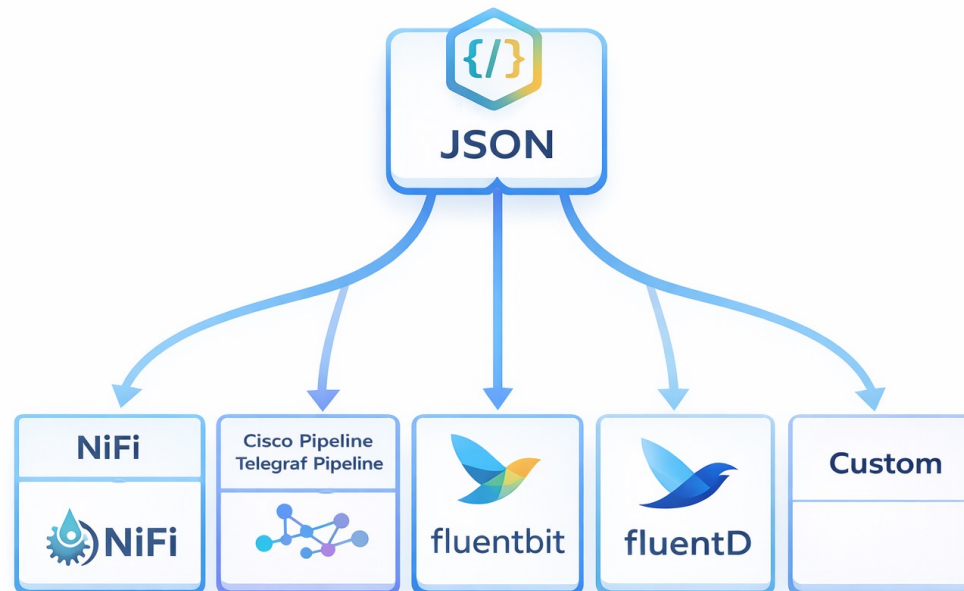
Different inputs (heterogeneous sources)

- ▶ 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 “trapo 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 pre-processing

-
- The screenshot displays a Databricks job cluster with the following tasks and their details:
- ConsumeKafka-cnm-regional-nokia**
 - Class: `ConsumeKafka_2_6-1.16.2`
 - Input: `org.apache.kafka-nio-nfs-kafka-2-6-nar`
 - Read/Write: `0 bytes / 2.76 MB`
 - Output: `1,020 (2.76 MB)`
 - Tasks/Time: `280 / 00:00:19.322`
 - UpdateAttribute-TraceTime**
 - Class: `UpdateAttribute-1.16.2`
 - Input: `org.apache.nfs-nio-update-attribute-nar`
 - Read/Write: `0 bytes / 0 bytes`
 - Output: `1,020 (2.76 MB)`
 - Tasks/Time: `1,020 / 00:00:00.160`
 - TemplateProc**
 - Class: `TemplateProc`
 - Input: `0 (0 bytes)`
 - Read/Write: `44.1 MB / 38.61 MB`
 - Output: `2 → 1,020 (12.09 MB)`
 - DeduplicationsLifeCycle**
 - Class: `DeduplicationsLifeCycle`
 - Input: `164 (1.96 MB)`
 - Read/Write: `12.09 MB / 0 bytes`
 - Output: `2 → 1,006 (11.92 MB)`
 - DeduplicationsGw**
 - Class: `DeduplicationsGw`
 - Input: `767 (9.11 MB) → 1`
 - Read/Write: `0 bytes / 0 bytes`
 - Output: `2 → 767 (9.11 MB)`
 - MemcacheEnrichment**
 - Class: `MemcacheEnrichment`
 - Input: `767 (9.11 MB) → 1`
 - Read/Write: `9.11 MB / 0 bytes`
 - Output: `1 → 767 (9.11 MB)`
 - OutputKafka**
 - Class: `OutputKafka`
 - Input: `1,006 (11.92 MB) → 2`
 - Read/Write: `24.24 MB / 12.1 MB`
 - Output: `0 → 0 (0 bytes)`
- Additional tasks and connections shown:
- UpdateAttr-discard-1** (Class: `UpdateAttribute-1.16.2`) receives input from **TemplateProc** and **DeduplicationsGw**.
 - From OutputTemplateProcMatch** connects to **UpdateAttr-discard-1**.
 - From outNotSuppress** connects to **DeduplicationsGw**.
 - From OutputDedupGwSuccess** connects to **MemcacheEnrichment**.
 - From output-processing-enrich...** connects to **MemcacheEnrichment**.
 - From outSuppressDiscard** connects to **UpdateAttr-discard-1**.
 - To InDiscard** connects to **UpdateAttr-discard-1**.
 - To InDiscard** connects to **OutputKafka**.

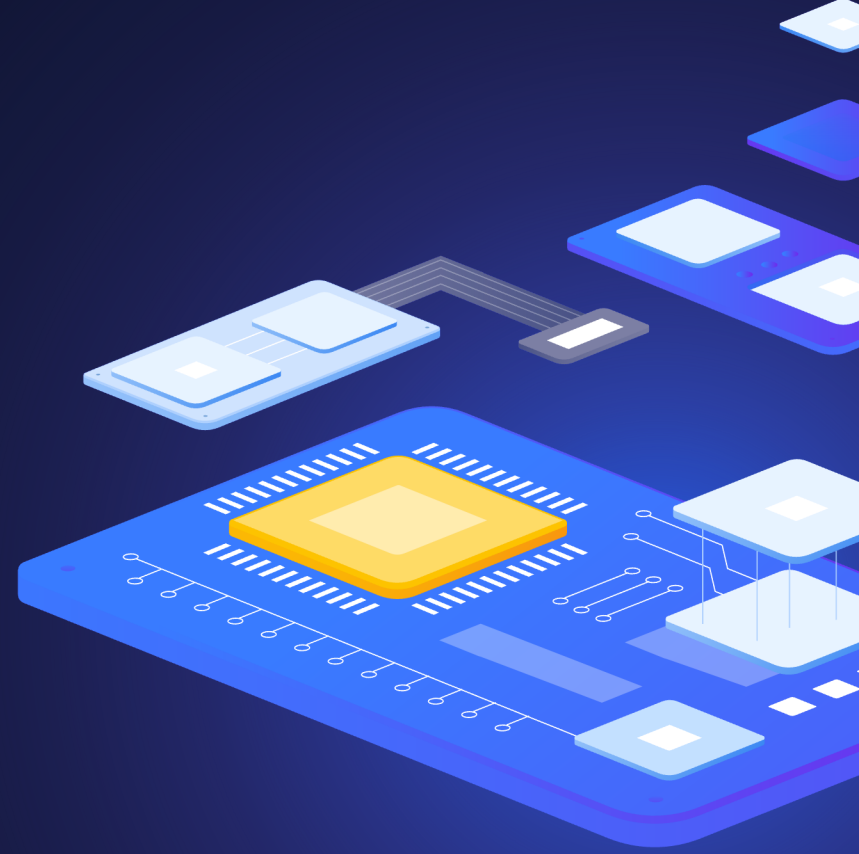
Problem Enrichment & Apache NiFi

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

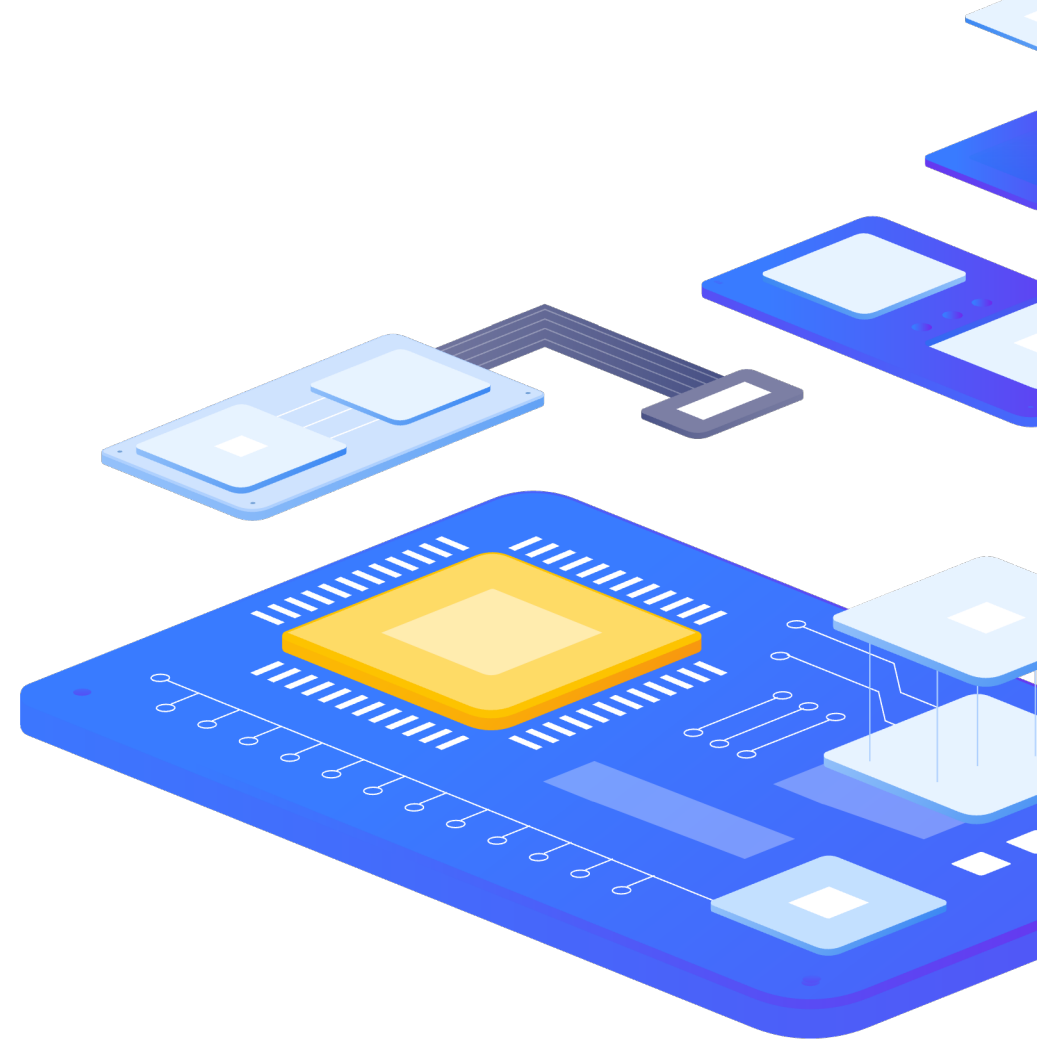
Technical Solution in Zabbix



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

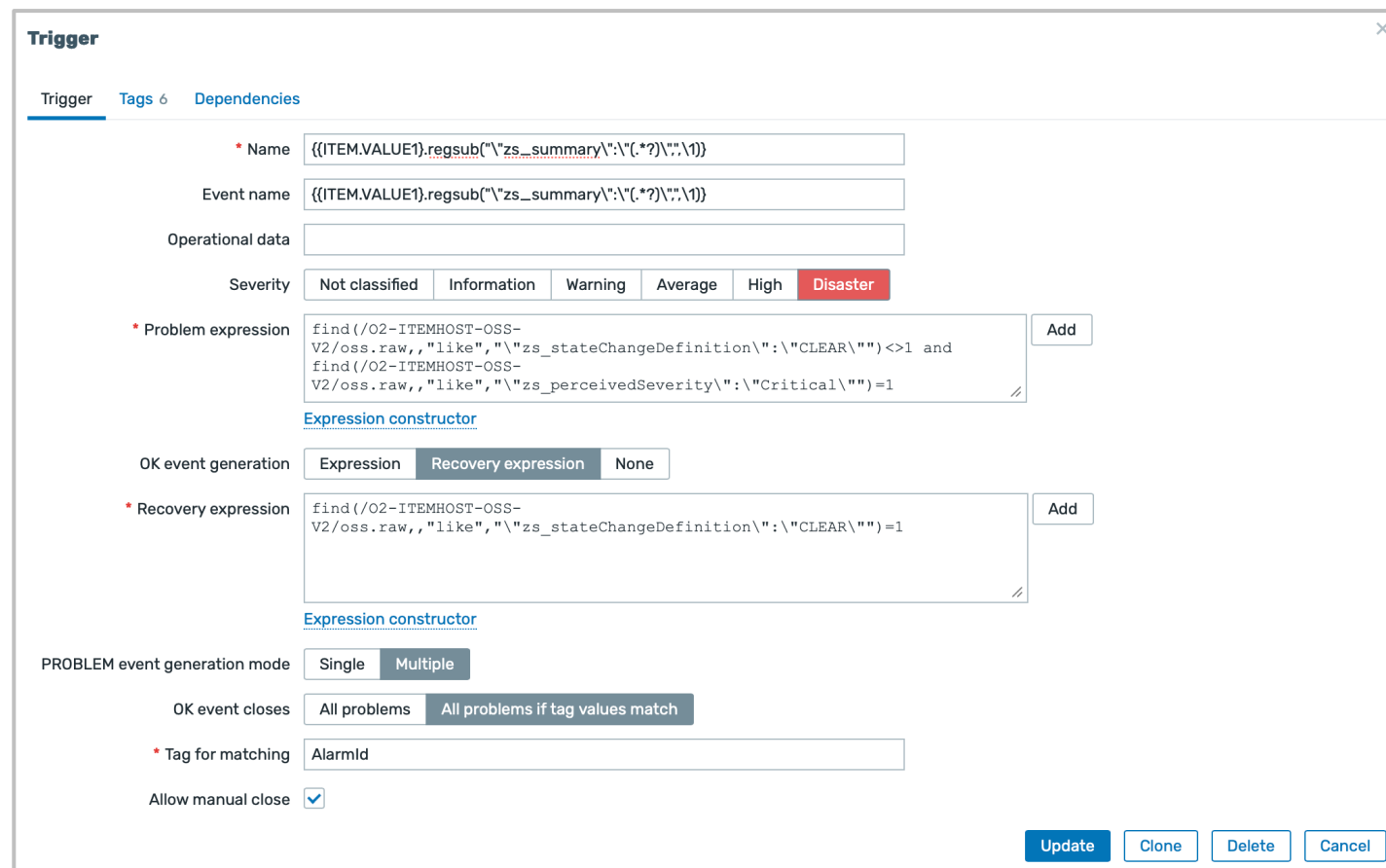
- ▶ “Not classified” covers cases where enrichment fields are not found during regex parsing.

<input type="checkbox"/> Severity	Name ▲	Operational data	Expression	Status	Tags
<input type="checkbox"/> Information	{{ITEM.VALUE1}.regsub("\zs_summary\":"(.*?)";\1)}		Problem: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity\":"CLEAR")>1 and find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity\":"Indeterminate")=1 Recovery: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")=1	Enabled	Alarmid: {{ITEM.VALUE1}.regsub("\zs_alarmid\":"(.*?)";\1)} Caselid: {{ITEM.VALUE1}.regsub("\zs_caseid\":"(.*?)";\1)} Dom1: {{ITEM.VALUE1}.regsub("\zs_agent\":"(.*?)";\1)} ...
<input type="checkbox"/> Disaster	{{ITEM.VALUE1}.regsub("\zs_summary\":"(.*?)";\1)}		Problem: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")>1 and find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity\":"Critical")=1 Recovery: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")=1	Enabled	Alarmid: {{ITEM.VALUE1}.regsub("\zs_alarmid\":"(.*?)";\1)} Caselid: {{ITEM.VALUE1}.regsub("\zs_caseid\":"(.*?)";\1)} Dom1: {{ITEM.VALUE1}.regsub("\zs_agent\":"(.*?)";\1)} ...
<input type="checkbox"/> High	{{ITEM.VALUE1}.regsub("\zs_summary\":"(.*?)";\1)}		Problem: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")>1 and find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity\":"Major")=1 Recovery: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")=1	Enabled	Alarmid: {{ITEM.VALUE1}.regsub("\zs_alarmid\":"(.*?)";\1)} Caselid: {{ITEM.VALUE1}.regsub("\zs_caseid\":"(.*?)";\1)} Dom1: {{ITEM.VALUE1}.regsub("\zs_agent\":"(.*?)";\1)} ...
<input type="checkbox"/> Average	{{ITEM.VALUE1}.regsub("\zs_summary\":"(.*?)";\1)}		Problem: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")>1 and find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity\":"Minor")=1 Recovery: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")=1	Enabled	Alarmid: {{ITEM.VALUE1}.regsub("\zs_alarmid\":"(.*?)";\1)} Caselid: {{ITEM.VALUE1}.regsub("\zs_caseid\":"(.*?)";\1)} Dom1: {{ITEM.VALUE1}.regsub("\zs_agent\":"(.*?)";\1)} ...
<input type="checkbox"/> Warning	{{ITEM.VALUE1}.regsub("\zs_summary\":"(.*?)";\1)}		Problem: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")>1 and find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_perceivedSeverity\":"Warning")=1 Recovery: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")=1	Enabled	Alarmid: {{ITEM.VALUE1}.regsub("\zs_alarmid\":"(.*?)";\1)} Caselid: {{ITEM.VALUE1}.regsub("\zs_caseid\":"(.*?)";\1)} Dom1: {{ITEM.VALUE1}.regsub("\zs_agent\":"(.*?)";\1)} ...
<input type="checkbox"/> Not classified	{{ITEM.VALUE1}.regsub("\zs_summary\":"(.*?)";\1)} FALLBACK!		Problem: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")>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 Recovery: find (/02-ITEMHOST-OSS-V2/oss.raw, "like", "\zs_stateChangeDefinition\":"CLEAR")=1	Enabled	Alarmid: {{ITEM.VALUE1}.regsub("\zs_alarmid\":"(.*?)";\1)} Caselid: {{ITEM.VALUE1}.regsub("\zs_caseid\":"(.*?)";\1)} Dom1: {{ITEM.VALUE1}.regsub("\zs_agent\":"(.*?)";\1)} ...

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).



The image shows the Zabbix Trigger configuration interface. The 'Trigger' tab is active, showing the following fields and options:

- Name:** `{{ITEM.VALUE1}.regsub("\zs_summary\":".*?")\1}}`
- Event name:** `{{ITEM.VALUE1}.regsub("\zs_summary\":".*?")\1}}`
- Operational data:** (empty field)
- Severity:** Not classified, Information, Warning, Average, High, **Disaster** (selected)
- 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` (with an 'Add' button)
- OK event generation:** Expression, **Recovery expression** (selected), None
- Recovery expression:** `find(/O2-ITEMHOST-OSS-V2/oss.raw,"like","\zs_stateChangeDefinition\":"CLEAR")=1` (with an 'Add' button)
- PROBLEM event generation mode:** Single, **Multiple** (selected)
- OK event closes:** All problems, **All problems if tag values match** (selected)
- Tag for matching:** AlarmId
- Allow manual close:** ☒

At the bottom right, there are buttons for 'Update', 'Clone', 'Delete', and '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	
AlarmId	{{ITEM.VALUE1}.regsub("\"zs_alarmId\": \"(.*)\";\";1)}}	Remove
CaseId	{{ITEM.VALUE1}.regsub("\"zs_caseId\": \"(.*)\";\";1)}}	Remove
Dom1	{{ITEM.VALUE1}.regsub("\"zs_agent\": \"(.*)\";\";1)}}	Remove
Dom2	{{ITEM.VALUE1}.regsub("\"zs_domain_I2\": \"(.*)\";\";1)}}	Remove
EventType	{{ITEM.VALUE1}.regsub("\"zs_eventType\": \"(.*)\";\";1)}}	Remove
Identifier	{{ITEM.VALUE1}.regsub("\"zs_identifier\": \"(.*)\";\";1)}}	Remove

[Add](#)

Update

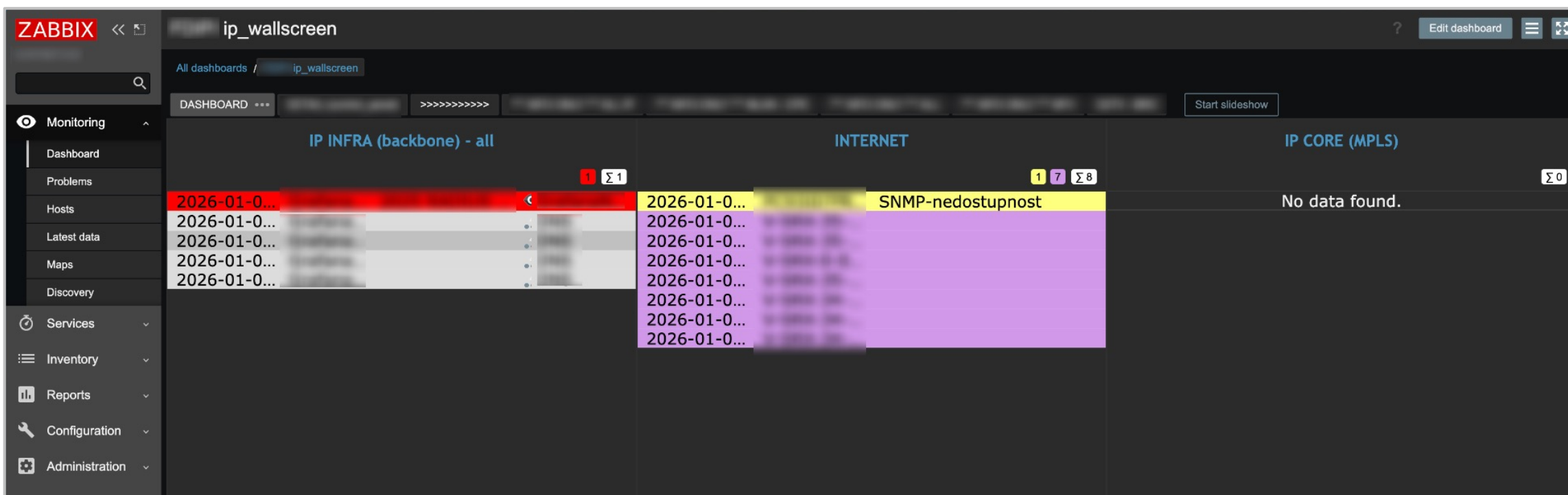
Clone

Delete

Cancel

Technical Solution in Zabbix

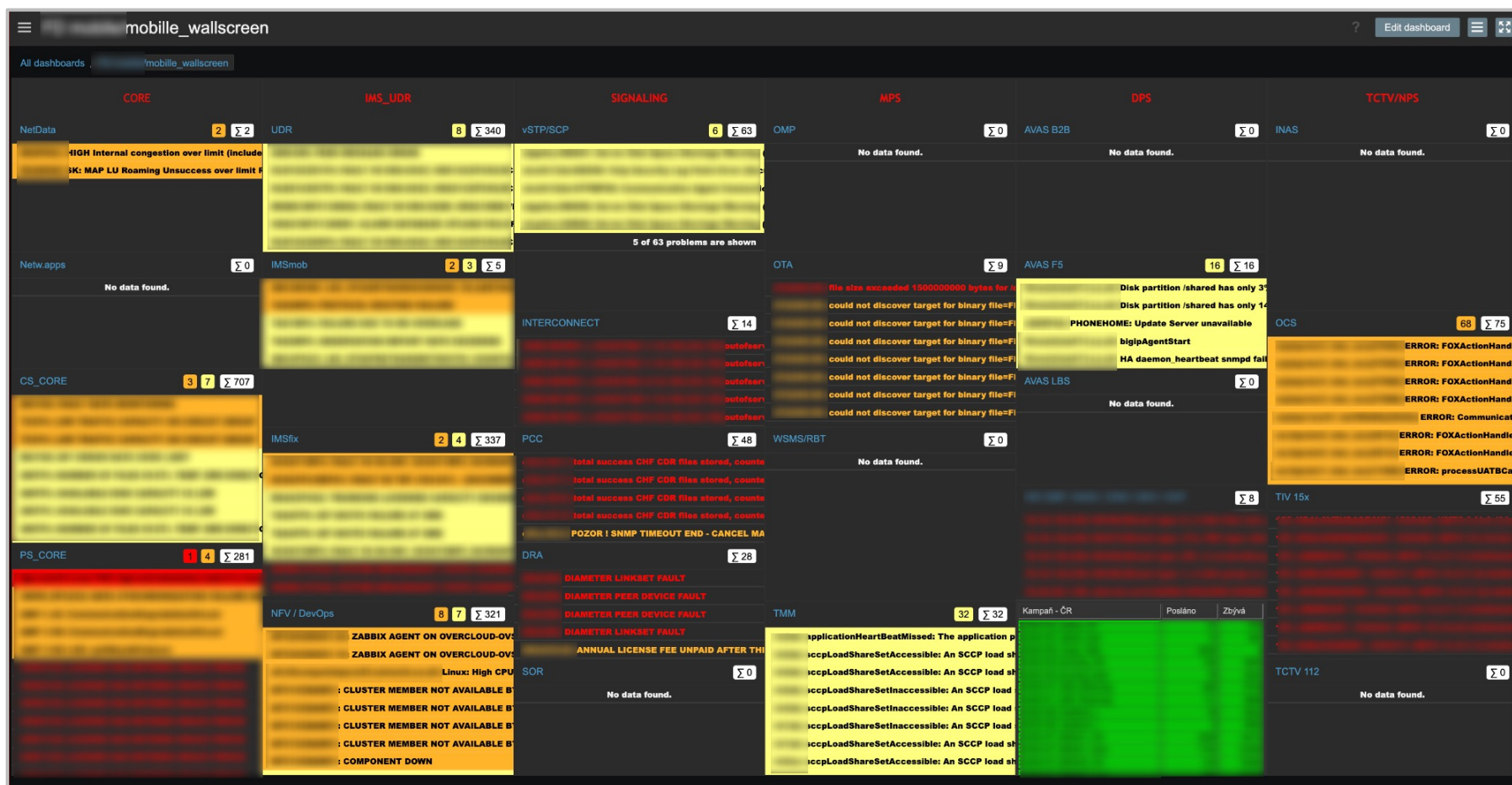
Zabbix Architecture – Custom widget



Migrating Enterprise Monitoring: From IBM Netcool to Zabbix

Technical Solution in Zabbix

Zabbix Architecture – Custom widget



Technical Solution in Zabbix

Zabbix Architecture – Custom scripts

1 Σ 1			1 7 Σ 8		
2026-01-0...	Grafana...	GrafanaN...	2026-01-0...		SNMP-nedostupnost
2026-01-0...	Grafana...	DNS	2026-01-0...		
2026-01-0...	Grafana...	DNS	2026-01-0...		
2026-01-0...	Graf...	DNS	2026-01-0...		
2026-01-0...	Gra	DNS	2026-01-0...		
ADCTIONS					
Acknowledge					
Time acknowledge					
Unacknowledge					
Delete					
Journal					
Create TTS					
Add to TTS					
Box info					
Follow URL					
Copy to clipboard					

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

All dashboards / Summit 2022

Enhanced Problems

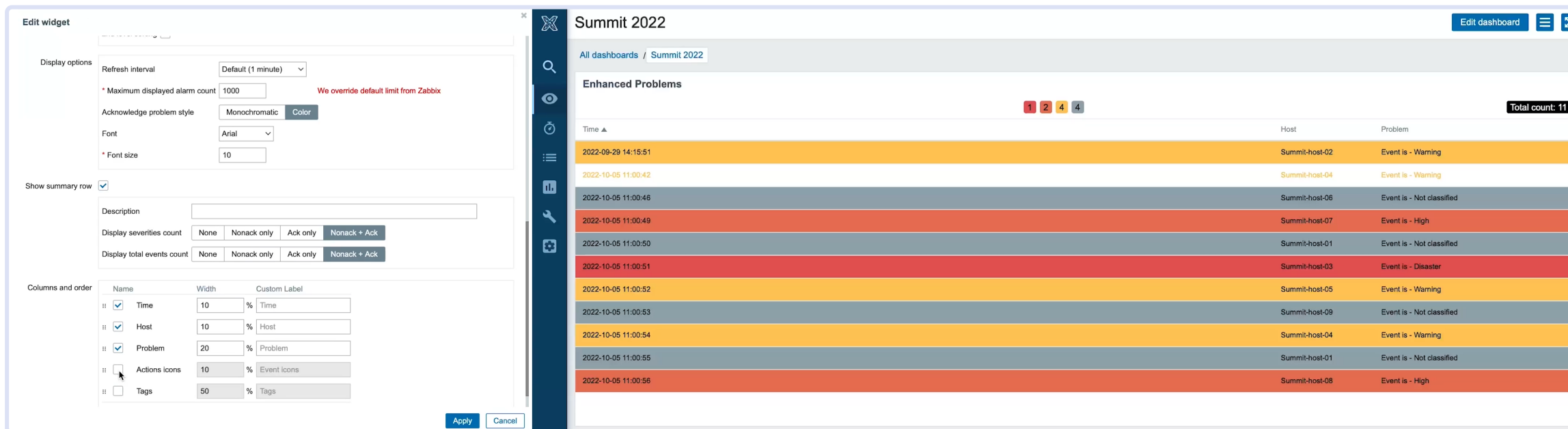
1 2 3 4 Total count: 10

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

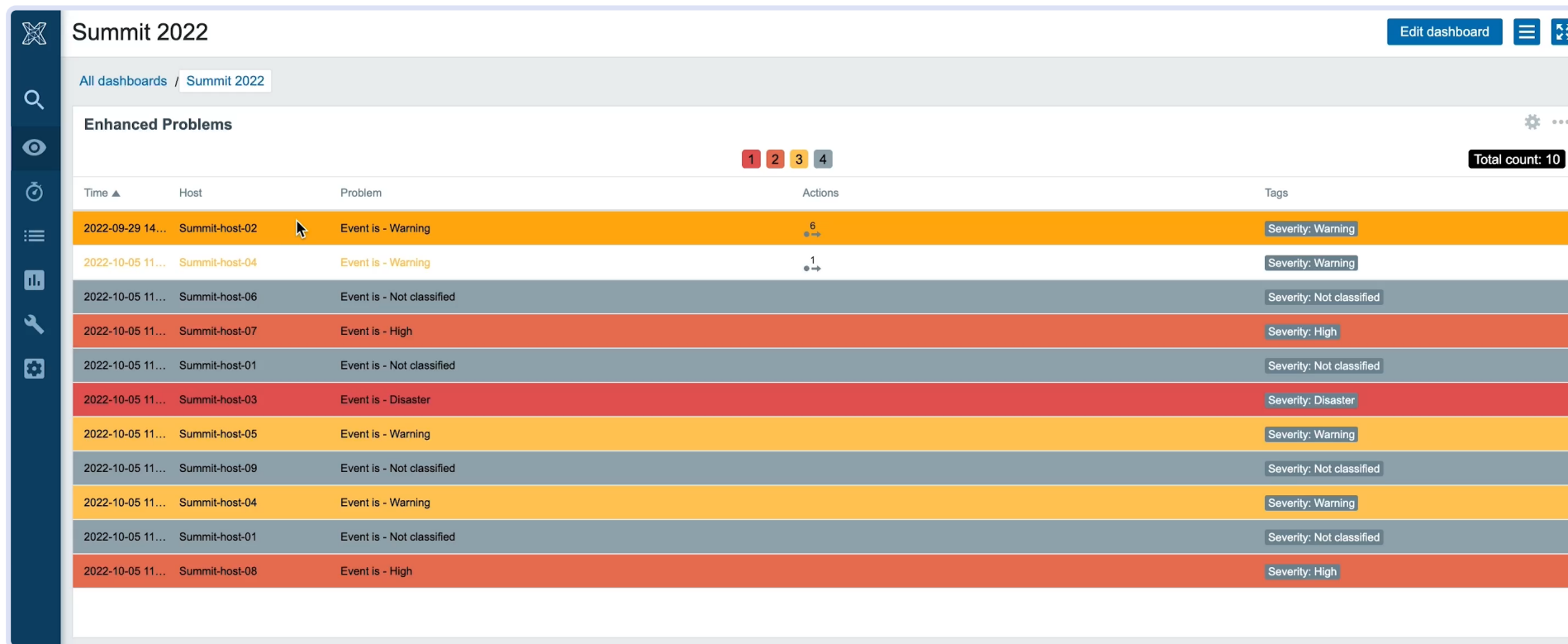


The screenshot displays the Zabbix web interface. On the left, the 'Edit widget' configuration panel for the 'Problem' widget is visible. It includes settings for 'Display options' (Refresh interval, Maximum displayed alarm count, Acknowledge problem style, Font, Font size) and 'Columns and order' (a table to select and configure columns like Time, Host, Problem, Actions icons, and Tags). The main dashboard area shows the 'Summit 2022' dashboard with the 'Enhanced Problems' widget. This widget displays a table of events with columns for Time, Host, and Problem. The table is color-coded by severity (Warning, High, Disaster, Not classified). A 'Total count: 11' badge is shown in the top right corner of the widget.

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

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

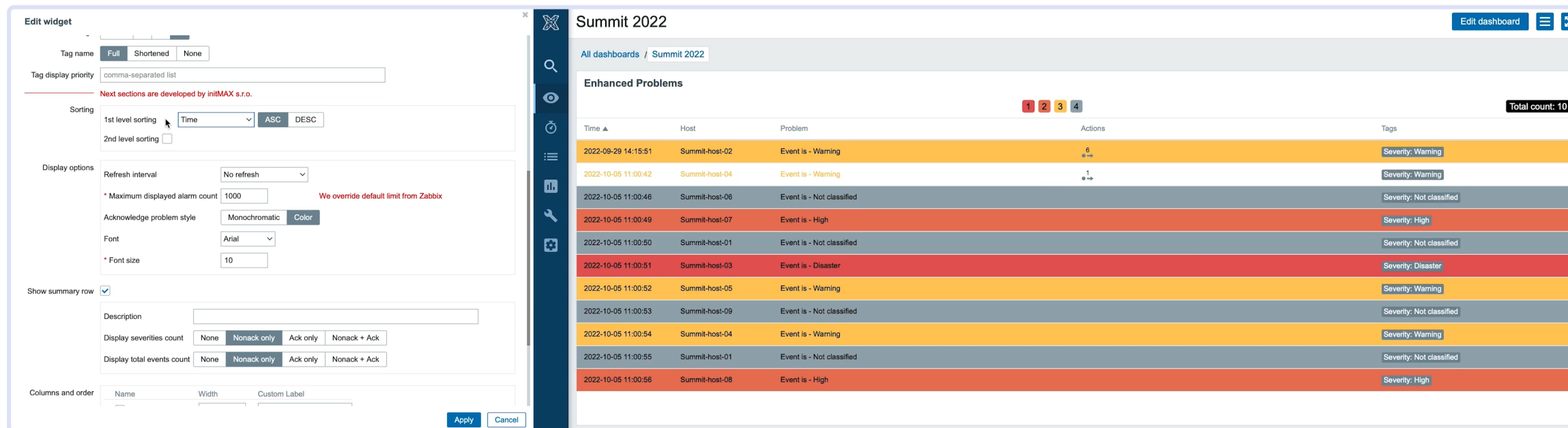


The screenshot displays the Zabbix 'Enhanced Problems' dashboard for a dashboard named 'Summit 2022'. The interface includes a sidebar with navigation icons, a top navigation bar with 'All dashboards / Summit 2022', and a main content area. The main area features a table of problems with columns for Time, Host, Problem, Actions, and Tags. A 'Total count: 10' badge is visible in the top right of the table area. The table lists various events with their respective hosts and severities.

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

Technical Solution in Zabbix

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



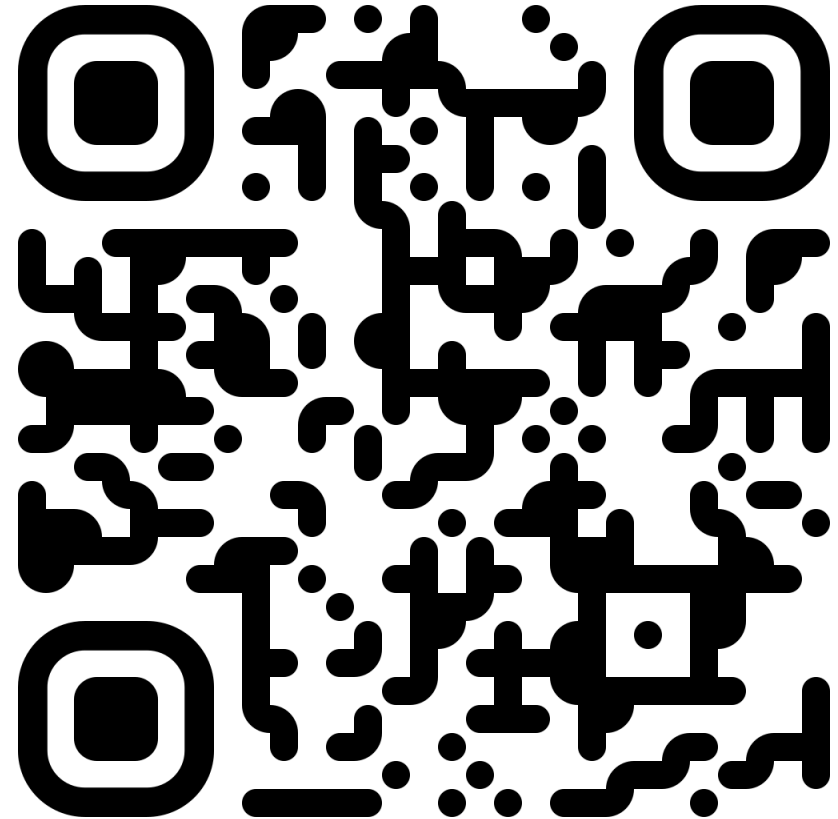
The screenshot displays the Zabbix web interface for the 'Summit 2022' dashboard. On the left, the 'Edit widget' panel is open, showing configuration options for the event list. The 'Tag name' is set to 'Full'. The 'Tag display priority' is set to 'comma-separated list'. The 'Sorting' section shows '1st level sorting' set to 'Time' with 'ASC' direction, and '2nd level sorting' is disabled. The 'Display options' section shows 'Refresh interval' set to 'No refresh', 'Maximum displayed alarm count' set to '1000', 'Acknowledge problem style' set to 'Monochromatic', 'Font' set to 'Arial', and 'Font size' set to '10'. The 'Show summary row' checkbox is checked. The 'Columns and order' section shows columns for 'Name', 'Width', and 'Custom Label'. The main dashboard area shows the 'Summit 2022' dashboard with a table of 'Enhanced Problems'. The table has columns for 'Time', 'Host', 'Problem', 'Actions', and 'Tags'. The table contains 10 rows of events, each with a unique timestamp, host name, problem description, and severity level. The 'Total count: 10' is displayed in the top right corner of the table.

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 11:00:48	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 11:00:58	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



Customer Satisfaction & Outcomes

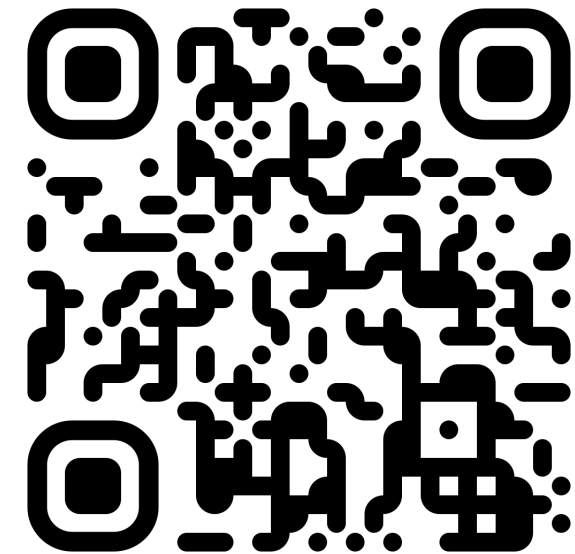
Customer Satisfaction & Outcomes

- › 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.

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**.



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