



Automatisiere, worauf Du keine "Lust" hast!

Neue Ansätze für das IT-Netzwerkmanagement mit Versio.io

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■■■■■ TELONIC  versio.io

IT-Dokumentation

- Aufwand
- Aktualität
- Vollständig
- Konsistenz
- Standard
- Motivation



Automatisiere, worauf Du keine „Lust“ hast!

Motivation

- Expertise
- Eigennutzen
- Wertschätzung
- Kopf-Monopol
- Monotonie



Automatisiere, worauf Du keine „Lust“ hast!

Mehrwert

- Aufwand Informationsbeschaffung (20%)
- Transparenz & Wissenstransfer
- Sicherheit
- Nachvollziehbarkeit
- Entscheidungsfindung
- Komplexität
- Digitalisierung der IT



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Mehr Mitarbeiter



Automatisiere, worauf Du keine „Lust“ hast!

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Mitarbeiter motivieren

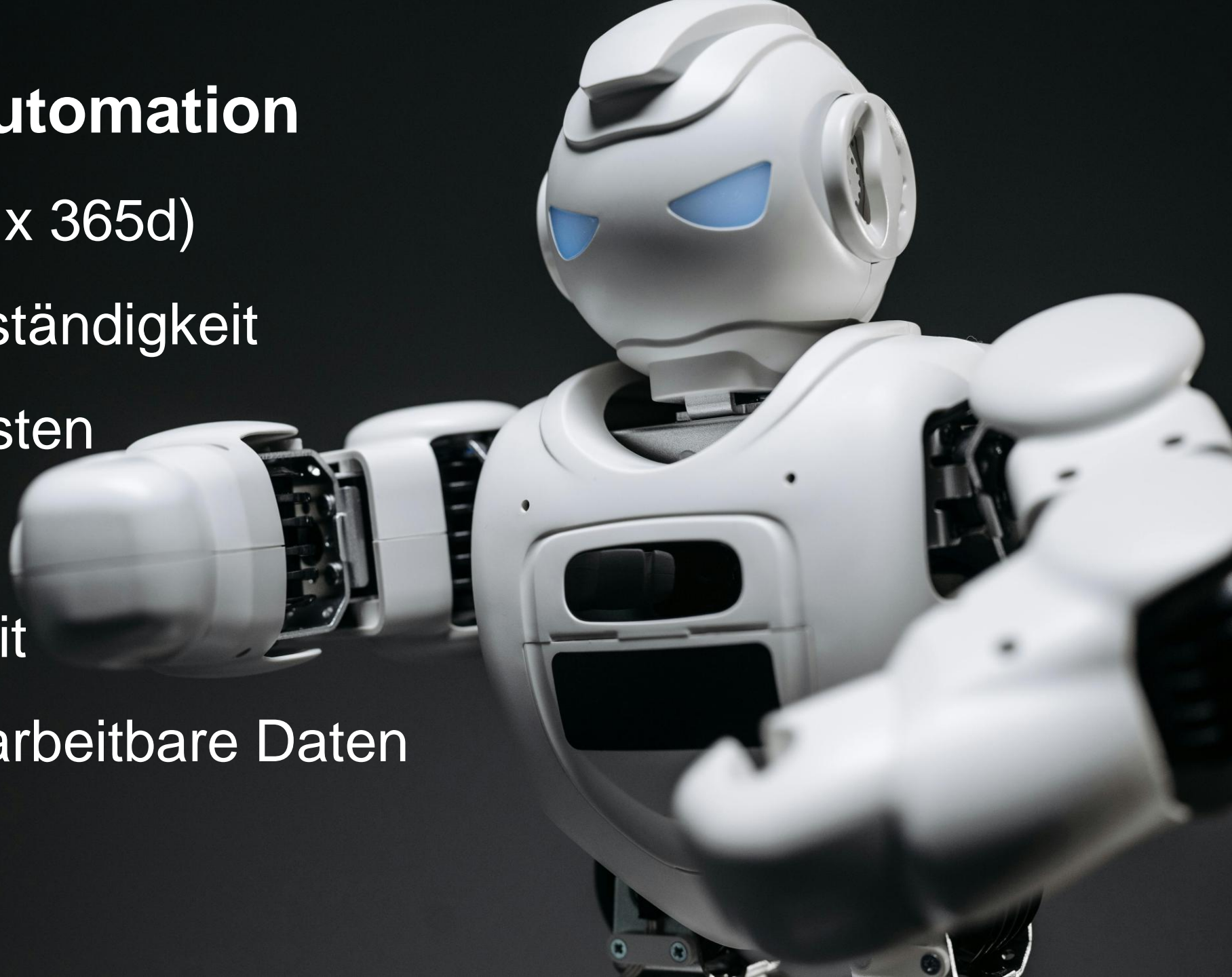


Automatisieren



Vorteile der Automation

- Aktualität (24h x 365d)
- Qualität & Vollständigkeit
- Aufwand & Kosten
- Skalierbarkeit
- Determiniertheit
- Maschinenverarbeitbare Daten



Automatisiere, worauf Du keine „Lust“ hast!

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Varianten für den Inventarisierung von Netzwerkgeräten, -plan & -ereignissen

SNMP Importer

Bestandsaufnahme spezifischer
OID-Attribute eines Netzwerkgeräts

```
1.3.6.1.2.1.1.5.0 = A
1.3.6.1.2.1.43.5.1.1.17.1 = B
...
1.3.6.1.2.1.25.3.2.1.3.1 = Z
```

HP341644

SNMP_c2f85939b4efe24c5545a62069dae35a9b97ea31

Current instance state

Address	192.168.0.222
Type	Printer
Display name	HP341644
Serial number	CN42IGK024
Vendor	Hewlett-Packard
Product	HP Officejet Pro X476dw MFP
Cartridge [4]	
Technology [1]	

Importer pro Hersteller

100%ige Dokumentation aller
Aspekte eines Netzgeräts

test-versio-juniper-switch

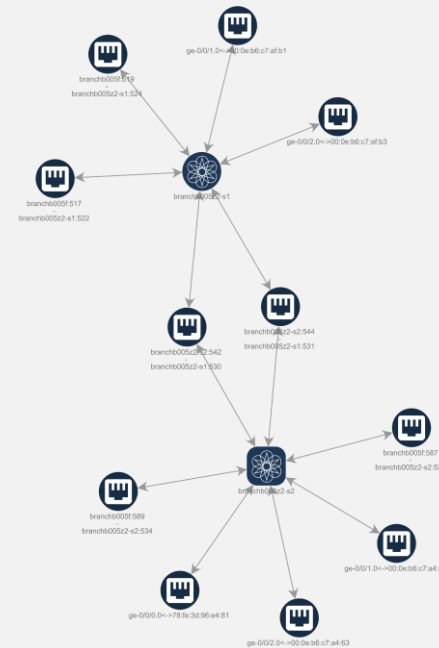
NETWORK-DEVICE-aa0c288e70f4d5ea44ea0aaf55097598d2dea...

Current instance state

Display name	test-versio-juniper-switch
Version	20.2R3-S2.5
System [14]	
Chassis [1]	
Interfaces [1]	
Forwarding options [1]	
Event options [1]	
Routing options [3]	
Protocols [5]	
Poe [1]	
Vlans [1]	
Junos :commit seconds	1628892188
Junos :commit localtime	2021-08-13 22:03:08 UTC
Junos :commit user	root
Relation [1]	

Netzwerkplan Importer

Dokumentation der physischen
Verkabelung (OSI-Schicht 2)



Netzwerk Events

Erfassung von SNMP
Trap und Syslog Events

The screenshot shows the 'Event details' page in the Versio.io interface. It displays the event root cause, event details, and a risk matrix. The event is identified as 'Malware Remover Scan completed' and is classified as 'High' risk. The risk matrix shows a grid of colored squares representing different risk levels.

Topology analysis

Visualize instances and their relationships to better understand the context of your domain.

Type & selection

Type: Vertical topology - Instance

Workspace: <Environment wide>

Instance: XRG_0662 (Created: 12 months ago)

Configuration

Direct depth: 10 (0, 2, 5)

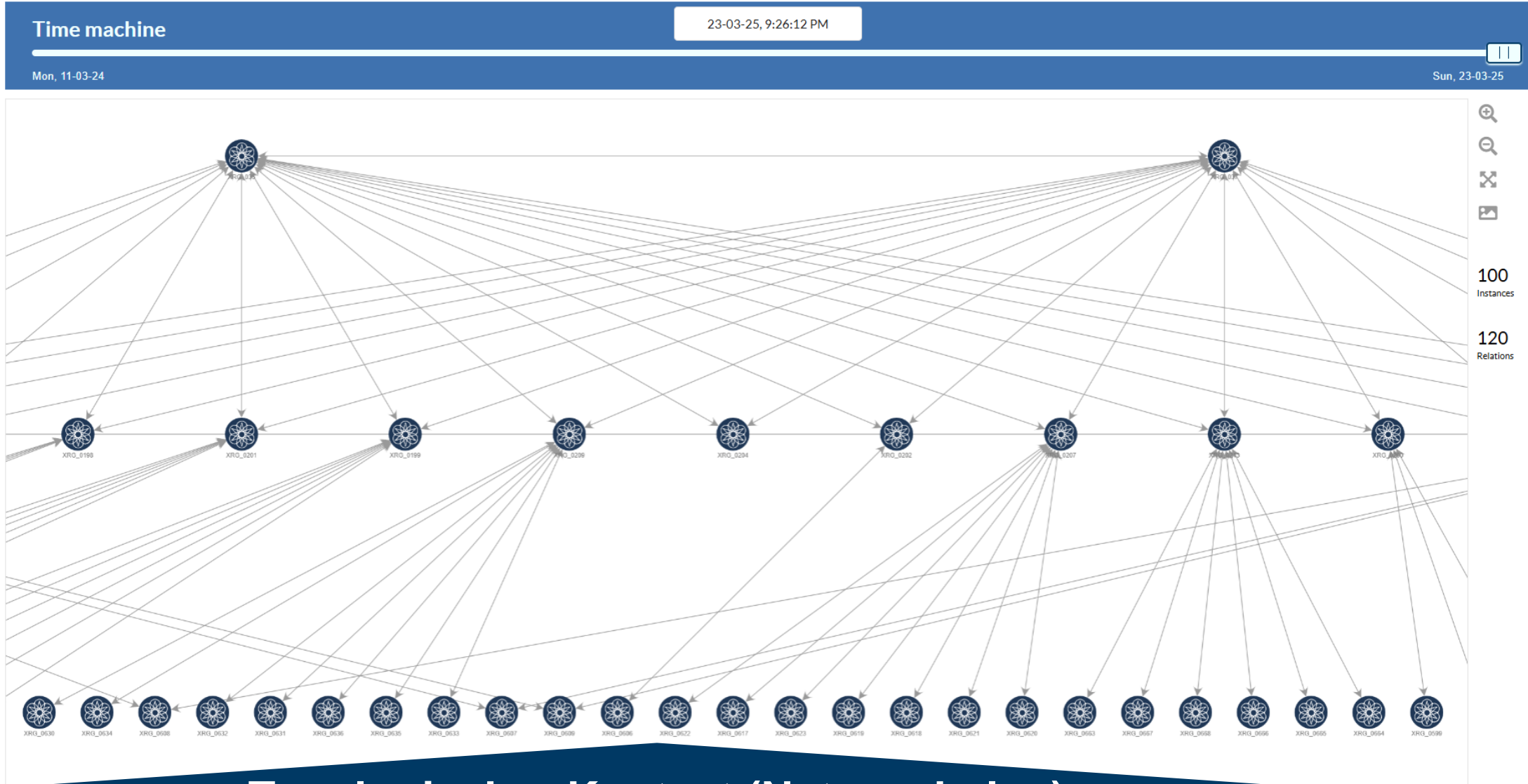
Indirect depth: 10 (0, 2, 5)

Filter entities: hide Physical connection

Apply

View

Save topology



Topologischer Kontext (Netzwerkplan)

Topology analysis

Visualize instances and their relationships to better understand the context of your domain.

Type & selection

Type: Vertical topology - Instance

Workspace: <Environment wide>

Instance: live.versio.io (Created: 12 months ago)

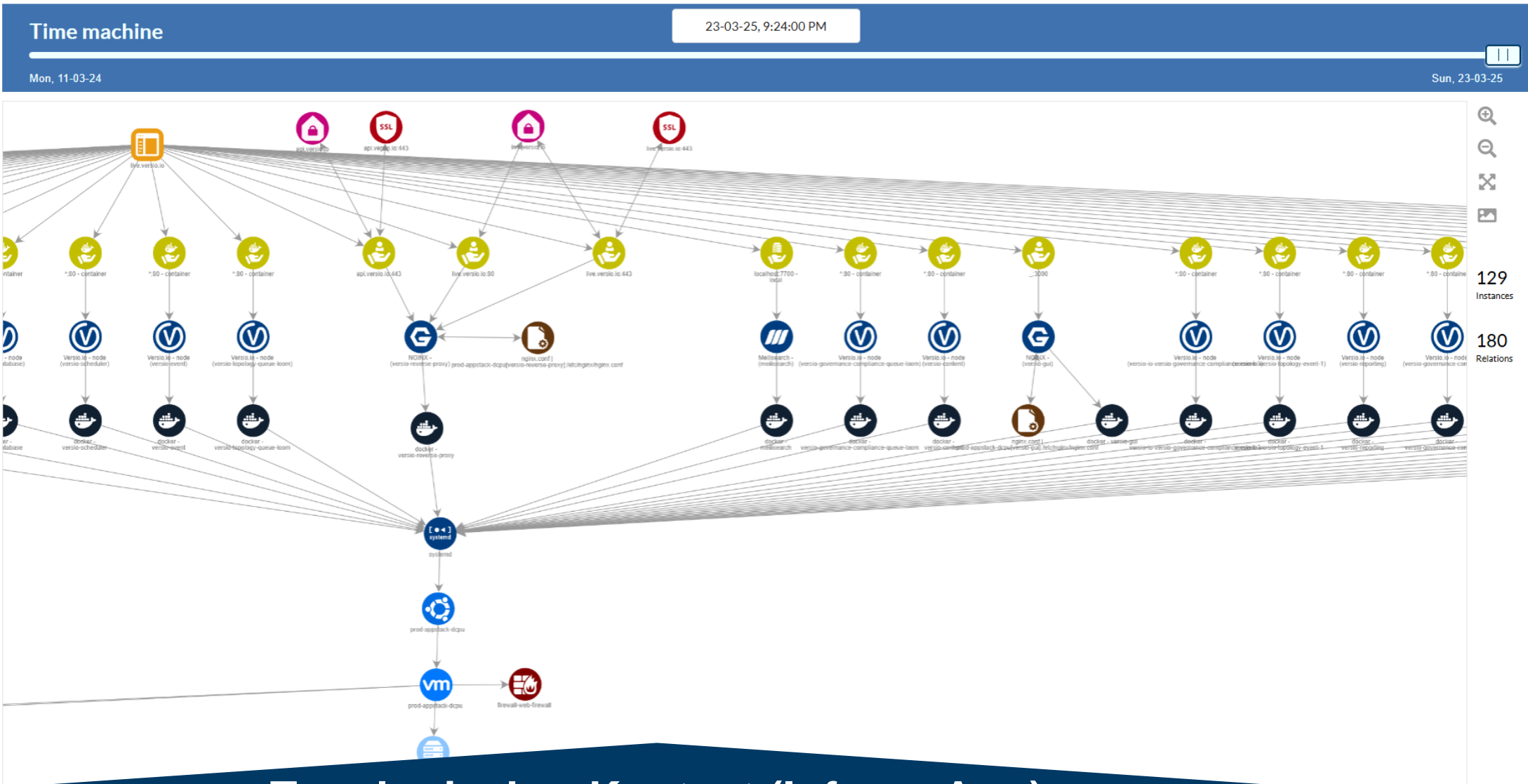
Configuration

Direct depth: 9 (0, 2, 5)

Indirect depth: 1 (0, 2, 5)

Filter entities: [Apply]

View: [Save topology]



Topologischer Kontext (Infra. + App)

Instance viewer

Get an overview of the state changes over the entire lifetime of the instance.

test-versio-juniper-switch
NETWORK-DEVICE-aa0c288e70f4d5ea44ea0aaf55097598d2dea328

Current instance state

- Display name: test-versio-juniper-switch
- Serial number: JZ0221390662
- Chassis id: 24:fc:4e:8b:61:06
- Address: 192.168.0.32
- Type: Switch
- Technology [2]
- Operating system [3]
 - Vendor: Juniper Networks
 - Product: Junos OS
 - Version: 20.2R3-S2
- Device [3]
 - Vendor: Juniper Networks
 - Product: EX Series
 - Version: EX2300-24T
- Relation [1]
 - Physical connection [1]
 - 1: test-versio-juniper-switch:516-:524

12 months ago
Mon, 11-03-24, 3:47 PM

Hide frequently recurring changes

- Display name: test-versio-junip...
- Serial number: JZ0221390662
- Chassis id: 24:fc:4e:8b:61:06
- Address: 192.168.0.32
- Type: Switch
- Technology [2]
- Relation [1]

Metadata

A summary of all relevant metadata of the instance.


Network device

- test-versio-juniper-switch
NETWORK-DEVICE-aa0c288e70f4d5ea44ea0aaf55097598d2dea328
- Created: 12 months ago (Mon, 11-03-24, 3:47 PM)
- Last change: 12 months ago (Mon, 11-03-24, 3:47 PM)
- Last update: 2 days ago (Mon, 24-03-25, 8:40 AM)
- Created: 12 months ago (Mon, 11-03-24)
- Now: Wed, 26-03-25
- 9 Indirect relations
- 1 Topologies
- 2 Direct relations

Image Analysis Violations Events Planned changes Topologies

Device image

The instance is a physical device. The following image shows the device Juniper Networks EX Series EX2300-24T.



Instance viewer

Get an overview of the state changes over the entire lifetime of the instance.

HP341644
SNMP_c2f85939b4efe24c5545a62069dae35a9b97ea31

Current instance state

- Address: 192.168.0.222
- Type: Printer
- Display name: HP341644
- Serial number: CN42IGK024
- Vendor: Hewlett-Packard
- Product: HP Officejet Pro X476dw MFP
- Cartridge [4]
 - Yellow [2]
 - Product: yellow ink CN628A
 - Fill level: 1074
 - Cyan [2]
 - Product: cyan ink CN626A
 - Fill level: 1114
 - Magenta [2]
 - Product: magenta ink CN627A
 - Fill level: 1079
 - Black [2]
 - Product: black ink HP CN625A
 - Fill level: 2264
- Technology [1]

6 months ago
Thu, 05-09-24, 3:12 PM

Hide frequently recurring changes

- 2 Chassis id: 24:fc:4e:8b:61:06
- Cartridge [4]
 - Cyan [2]
 - Product: cyan ink CN626A
 - Magenta [2]
 - Product: magenta ink CN...

Metadata

A summary of all relevant metadata of the instance.

Network device

- HP341644
SNMP_c2f85939b4efe24c5545a62069dae35a9b97ea31
- Created: 11 months ago (Fri, 26-04-24, 10:12 AM)
- Last change: 6 months ago (Thu, 05-09-24, 3:12 PM)
- Last update: 30 minutes ago (Mon, 24-03-25, 3:12 PM)
- Created: 6 months ago (Tue, 03-09-24)
- Now: Mon, 24-03-25
- 0 Indirect relations
- 0 Topologies
- 0 Direct relations

Image Analysis Violations Events Planned changes Topologies

Device image

The instance is a physical device. The following image shows the device Hewlett Packard Officejet Pro X476dw MFP.



Instance viewer

Get an overview of the state changes over the entire lifetime of the instance.

test-versio-juniper-switch

NETWORK-DEVICE-aa0c288e70f4d5ea44ea0aaf55097598d2dea328

Current instance state

Display name	test-versio-juniper-switch
Version	20.2R3-S2.5
System {14}	▶
Chassis {1}	▶
Interfaces {1}	▶
Snmp {1}	▼
Trap group {4}	▼
Name	all-traps
Version	v2
Categories {2}	▼
Link	true
Startup	true
Targets {1}	▼
Name	192.168.0.67
Forwarding options {1}	▶
Event options {1}	▶
Routing options {3}	▶
Protocols {5}	▶
Poe {1}	▶
Vlans {1}	▶
Junos :commit seconds	1631997537
Junos :commit localtime	2021-09-18 20:38:57 UTC
Junos :commit user	root
Relation {1}	▶

Metadata

A summary of all relevant metadata of the instance.

Configuration Juniper

test-versio-juniper-switch

NETWORK-DEVICE-aa0c288e70f4d5ea44ea0aaf55097598d2dea328

Changed

State

3

Changes

Created	Last change	Last update
12 months ago Mon, 11-03-24, 3:47 PM	45 hours ago Mon, 24-03-25, 1:53 PM	45 hours ago Mon, 24-03-25, 1:53 PM

12 months ago
Mon, 11-03-24

Now
Wed, 26-03-25

0

Indirect relations

0

Topologies

1

Direct relations

Violations
Events
Planned changes
Topology
Protection r

Entity

Overview of the entity of the displayed instance.

Entity name	configuratio...
Entity name beautified	Configuratio...
Total	3
Active	3
Mark as deleted	0

Instance

Some statistics on the data complexity of the current instance.

Size	8.88 KIB
Number of attributes	515
Number of arrays	2
Number of objects	289
Hierarchy depth	9
Number of events	0

Inventory method

Information about the method by which this instance was created.

Mark as deleted

Delete

Junos :commit user	root
Relation {1}	▶

45 hours ago

Mon, 24-03-25, 1:53 PM

45 hours ago

Mon, 24-03-25, 1:52 PM

Hide frequently recurring changes

2 Changes

System {14}
🔍 ⚙️ 📄 📌 🗑️ 🔄

Root authenticatio... ▼

Encrypted passw... \$6\$cSKNmcrv\$itEk/5ICY1t...

Login {5} ▼

Announcement New announcement messag...

4 Changes

System {14}
🔍 ⚙️ 📄 📌 🗑️ 🔄

Login {5} ▼

Announcement New announcement message

Snmp {1} ▼

Trap group {4} ▼

Name all-traps

Version v2

Categories {2} ▼

Link true

Startup true

Targets {1} ▼

Name 192.168.0.67

Junos :commit seco... 1631997537

Junos :commit localt... 2021-09-18 20:38:57 UTC

Live change tracking

Displays the total number of changes and the number of affected instances per entity and time period.

Filter topologies, entity groups and entities

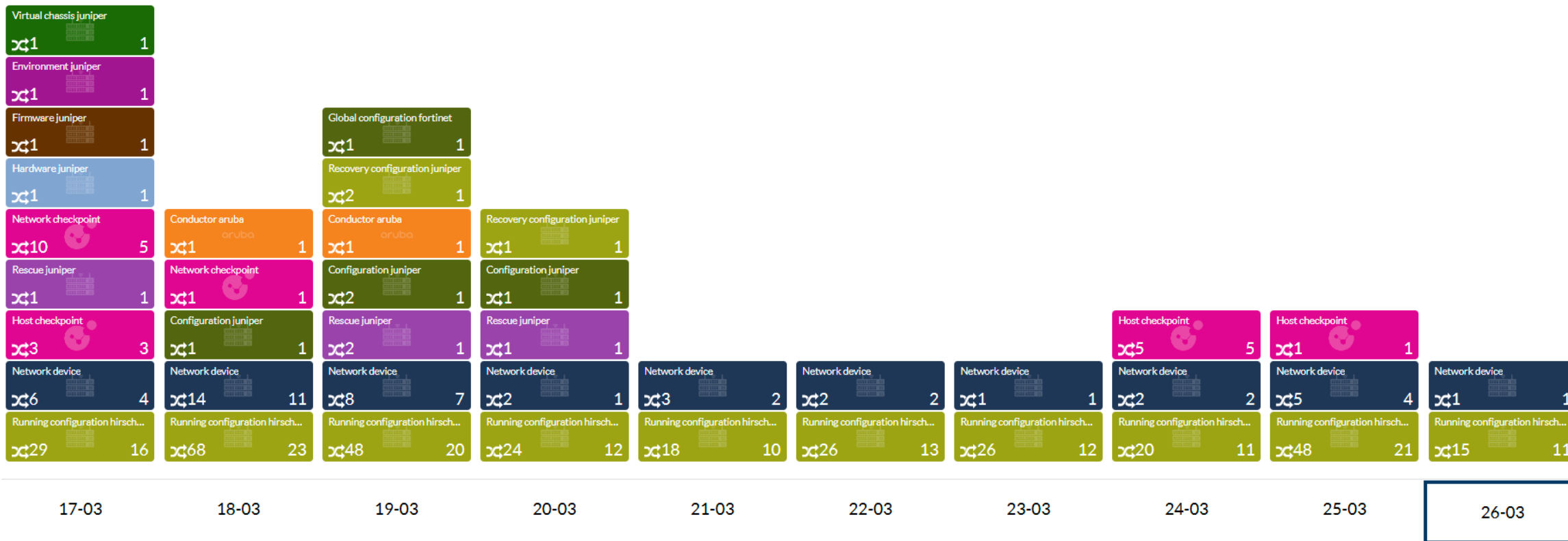
Filter change type

Network devices x

x

All change types

from past 10 1 day starting from Now



Product version assessment

Assessment of the product version about lifecycle and security vulnerabilities and recommended measures.

Lifecycle

Security

Recommended tasks

The defined lifecycle and security strategy is not fulfilled, as there is no more recent version that fulfils the strategy.

Affected instances

List of instances that use the specific version.

 test-versio-juniper-switch
Created: 12 months ago

Lifecycle details

Overview of lifecycle characteristics and assessment for the specific product version.

Strategy Lifecycle

- Is stable
- Is latest release
- Is latest release version
- Is latest long-term support release
- Is long-term support release

Strategy Support & maintenance

- Is in support period
- Is in extended support period
- Is in maintenance period
- Is in extended maintenance period

[Junos OS lifecycle details](#)

Vulnerability details

Overview of vulnerabilities known for this specific product version.

Strategy Vulnerability

- Is not affected by any explicit CVE
- Is not affected by any ambiguous CVE
- Is not affected by any implicit CVE

Exclusive

CVEs which contain only this product and this version:

Max CVSS score



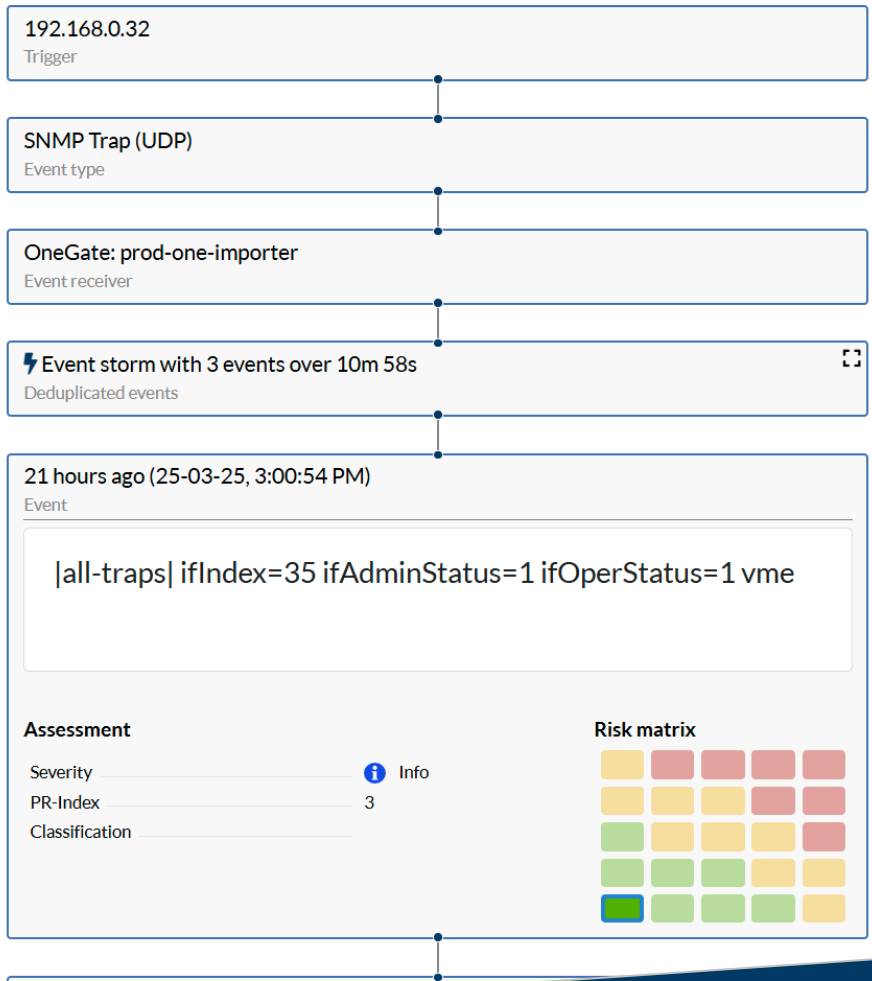
- [CVE-2004-0230](#) • [JSA11276](#)
- [CVE-2004-0468](#) • [JSA11277](#)
- [CVE-2021-31386](#) • [JSA11282](#)
- [CVE-2022-22157](#) • [JSA11283](#)
- [CVE-2022-22162](#) • [JSA11285](#)
- [CVE-2022-22169](#) • [JSA11286](#)
- [CVE-2022-22170](#) • [JSA69509](#)
- [CVE-2022-22171](#) • [JSA69705](#)
- [CVE-2022-22173](#) • [JSA69710](#)
- [CVE-2022-22176](#) • [JSA69715](#)
- [CVE-2022-22177](#) • [JSA69719](#)
- [CVE-2022-22179](#) • [JSA69875](#)
- [CVE-2022-22196](#) • [JSA69879](#)
- [CVE-2022-22208](#) • [JSA69884](#)
- [CVE-2022-22215](#) • [JSA69891](#)

Event details

- Archive
- Close
- View raw data

Event root cause

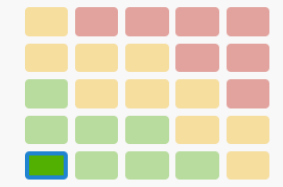
Understand the root cause why this event occurred and use the deep link to jump directly to the corresponding instance.



Assessment

Severity _____ **i** Info
 PR-Index _____ 3
 Classification _____

Risk matrix



Comment

Write a comment

Markdown

Save

Executed acti

All actions trigger

- Event i
Tue, 25-t
- Response updated
- Entity event-referenc
- Instance EVENT-REFER
- 237b773cddc:
- Versio link
- https://live.ver
- e=e2wqx5t27c
- REFERENCE-
- 237b773cddc:

Instance viewer

Get an overview of the state changes over the entire lifetime of the instance.

192.168.0.32

EVENT-REFERENCE-237b773cddc172f339dca5ce4d57df46ae571635

Current instance state 🔍 ⚙️ 📄 📌 🗑️ 🔄

Display name	192.168.0.32
Links [26]	▼
Irb [2]	▶
Me0 [2]	▶
Vme [2]	▼
Status	down
Last change date	2025-03-25T14:00:57.544Z
Ge007 [2]	▼
Status	down
Last change date	2024-09-26T14:51:33.638Z
Ge009 [2]	▶
Ge0011 [2]	▶
Ge001 [2]	▶
Ge0013 [2]	▶
Ge0016 [2]	▶
Ge0022 [2]	▶
Ge0023 [2]	▶
Ge0021 [2]	▶
Ge0019 [2]	▶
Ge0017 [2]	▶
Ge005 [2]	▶

Automatisiere, worauf Du keine “Lust” hast!

Fazit & Empfehlung

- **Einfach mal anfangen**
 - Technologische Möglichkeiten nutzen (Digitalisierung der IT)
 - Klein starten und groß enden (Nutzen fokussieren)
- Bereitstellung **starke Werkzeuge** für Mitarbeiter, um ...
 - Fokus auf wertstiftende Arbeit zulegen,
 - mit der zunehmenden Komplexität zu skalieren,
 - zu lernen (Data & Content!) und
 - Dokumentationsstandards zu nutzen.
- **Regulatorik & Zertifizierung** locker meistern (Dora, NIS2, ISO 27.001 etc.)
 - IT-Dokumentation
 - Veränderungserkennung & Bewertung
 - Risikomanagement



Inventory | Change Monitoring | Cybersecurity | Policies | Event & Logs



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