

Delivering the Foundations of Open and Composable Network Automation



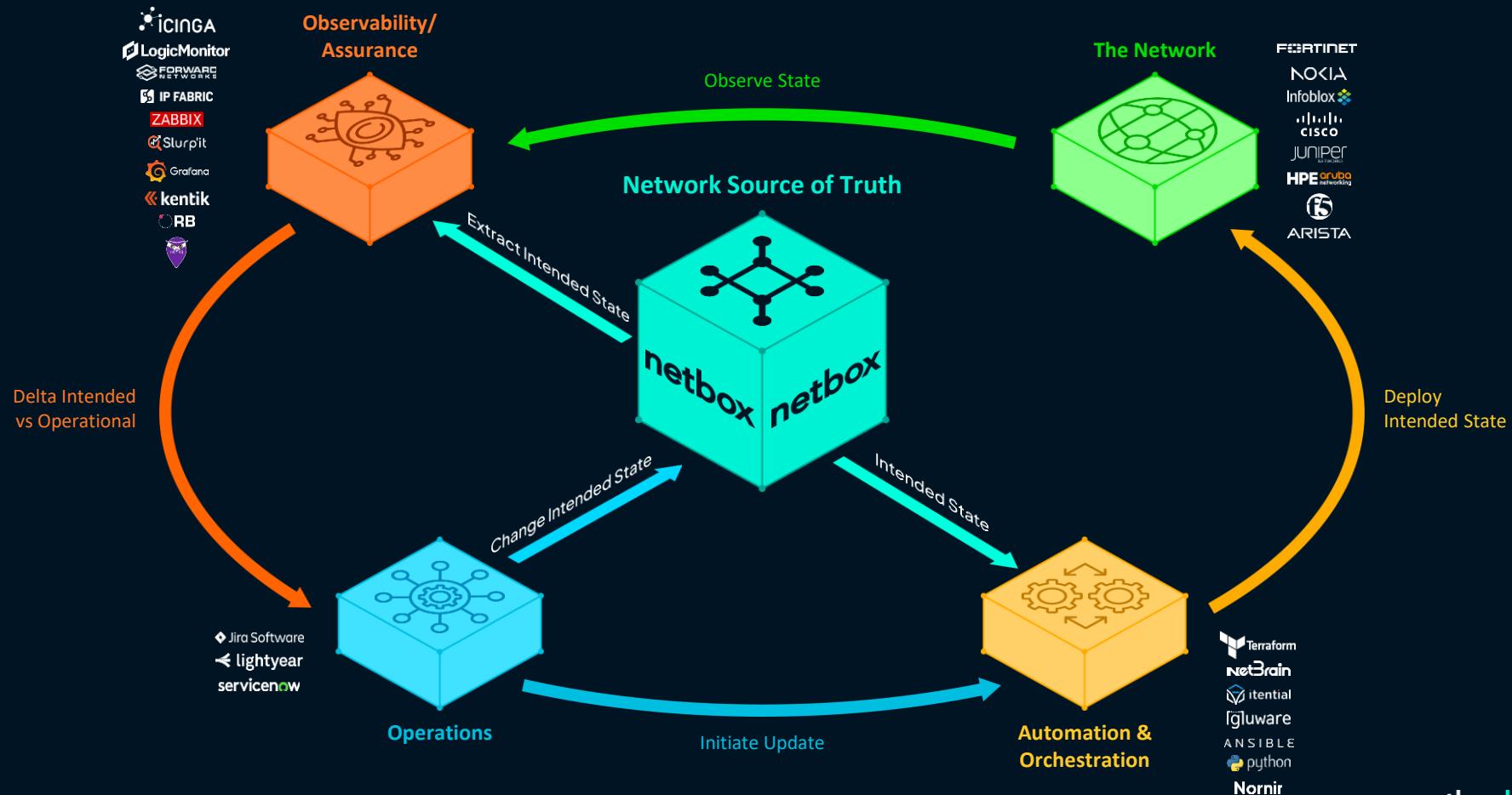
Mark Coleman
Chief Evangelist



AutoCon1: Redux

“Network automation can seem a little daunting”

Modern Network Automation Architecture



ANNOUNCEMENT

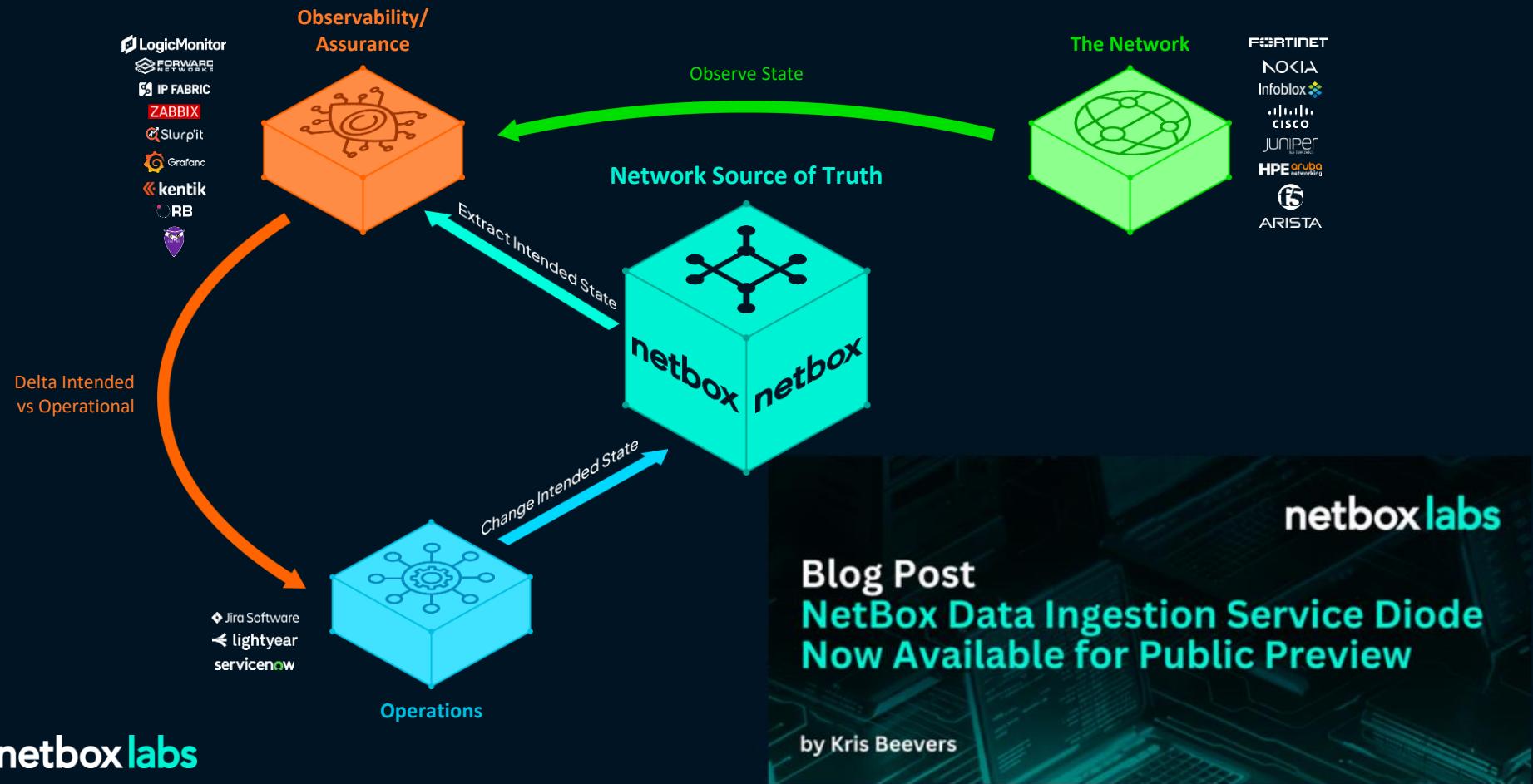
The NetBox Cloud Free Plan is Here.

Announcing the NetBox Cloud Free Plan: Getting Started with NetBox is Now Easier Than Ever

NetBox Labs Eliminates Barriers to Network Automation with Production Grade NetBox Cloud for Free, Including Generous Features and Usage, Available

Kris Beevers

Getting Data into NetBox



Controlled Collaboration



netbox labs

Blog Post

NetBox Branching Enters General Availability

by Mark Coleman



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NetBox Change Management Now Available for Customer Preview in NetBox Enterprise and NetBox Cloud

Blog post by Richard Boucher

You've
Been Busy
Too

GUEST BLOG POST

NetBox Operator for Kubernetes, Now Open Source

netbox labs



swisscom



Anurag Bhatia
@anurag_bhatia

...

What Cloudflare uses as source of truth? - It's [@NetBoxOfficial](#) as just shared by Antonio at #SGNOG11



4:05 AM · Sep 27, 2024 · 5,405 Views

3

8

57

15

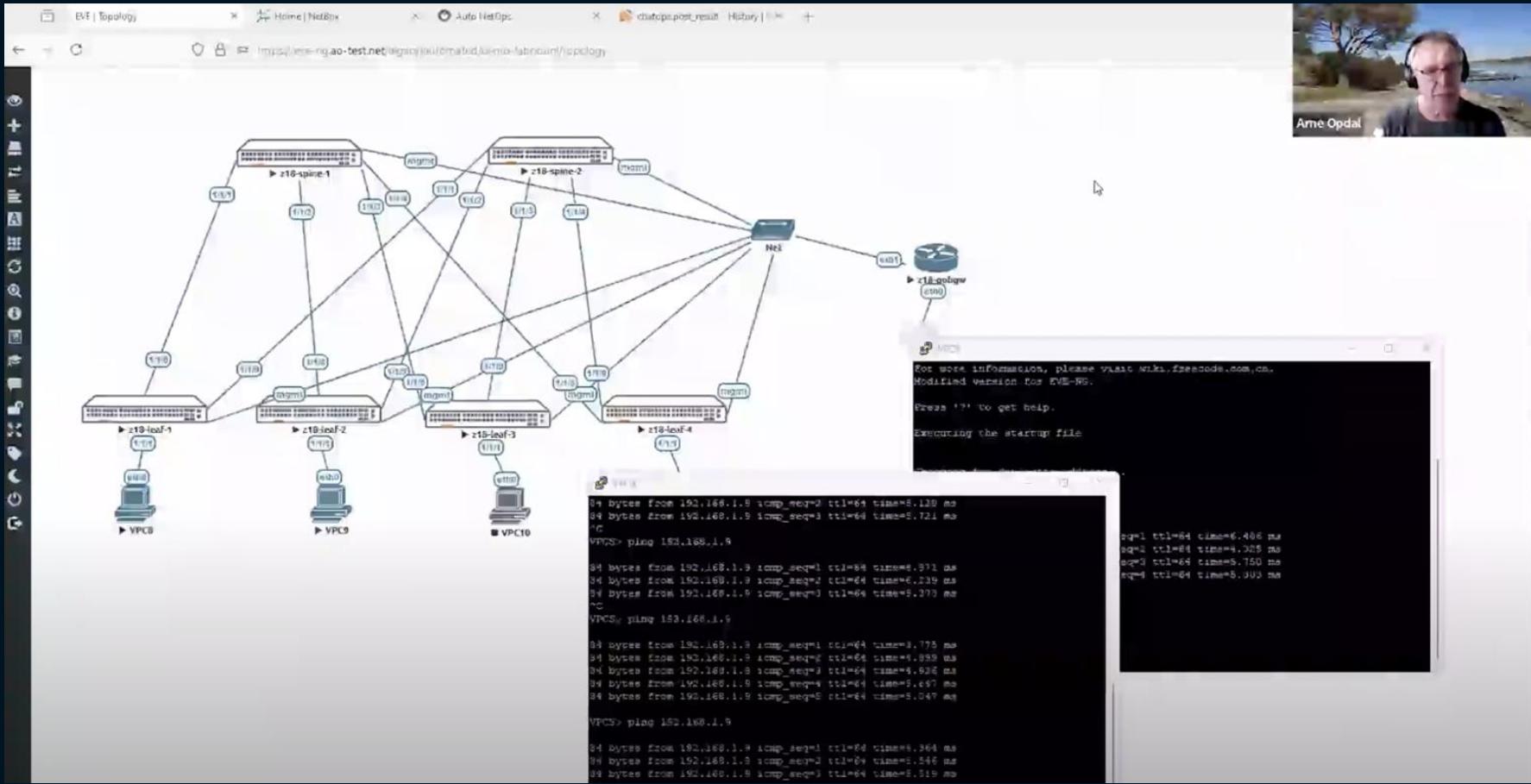
↑

Icinga and NetBox Labs Partner to Automate Network Monitoring

June 18, 2024 | Kris Beevers

One of the major strengths of Icinga is its capability to integrate with many other tools to automate and scale IT infrastructure monitoring. Today, we're happy to announce the certification of an integration between Icinga and [NetBox](#). The solution was developed over the past four years by our enterprise partner [Soll](#) and will be jointly supported by all Icinga, Soll, and [NetBox Labs](#), the commercial steward of NetBox. This partnership enhances the reliable integration developed and maintained by Soll, simplifying the monitoring of extensive networks, designed and documented in NetBox. It ensures that Icinga automatically receives up-to-date and accurate data.





What's new in Event-Driven Ansible, part of Ansible Automation Platform 2.5

October 2, 2024 | [Red Hat](#) | 6-minute read

[Automation and management](#)

[Event-Driven Ansible](#)

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We are pleased to announce an updated version of Event-Driven Ansible as part of Red Hat Ansible Automation Platform 2.5!

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The bridge to possible

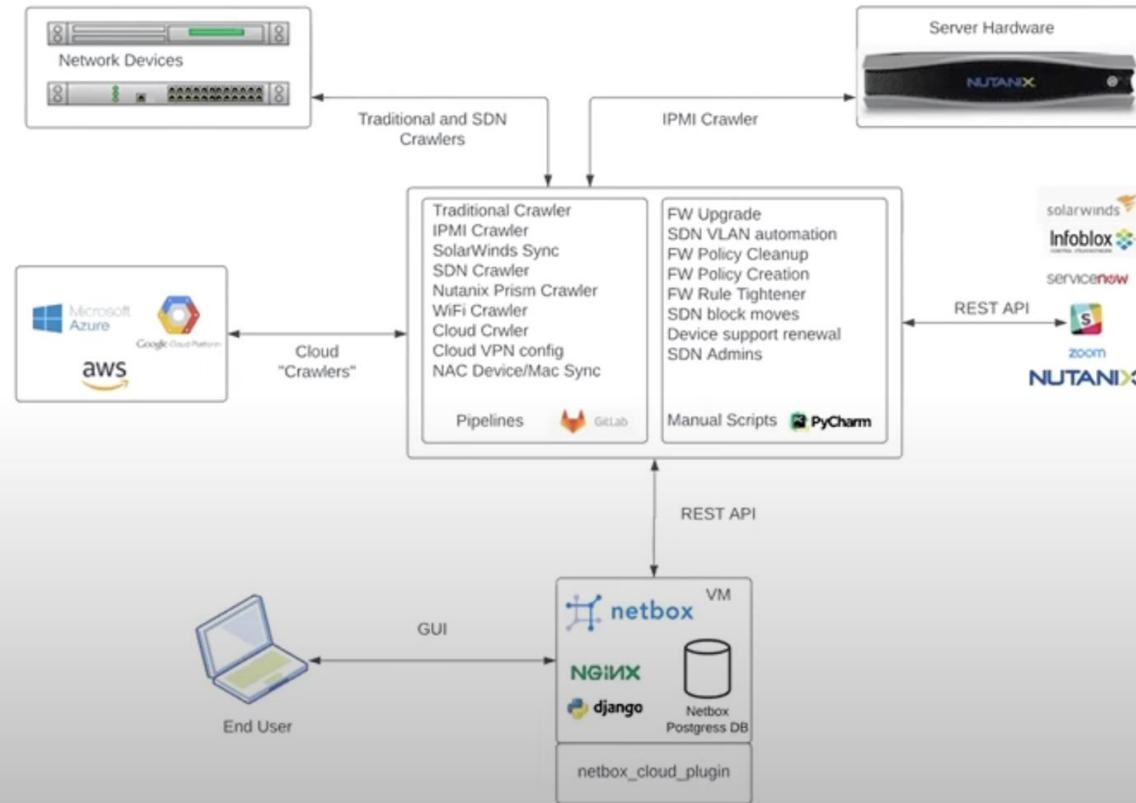


Jason Davis

NetBox at CiscoLive NOC

Jason Davis
Distinguished Engineer
September 17, 2024

The NetBox Ecosystem





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[Home](#) > [News & Events](#) > Itential Launches New Automation as a Service Offering to Standardize, Execute, & Securely Share Infrastructure Automations

Itential Launches New Automation as a Service Offering to Standardize, Execute, & Securely Share Infrastructure Automations

A modern automation solution, combining cloud-delivered self-service with redefined gateway capabilities, enables NetDevOps teams to streamline operations and standardize automation across their infrastructure.



Network Test Automation on Steroids: NetBox and Netpicker (Video)

Jun 12, 2024 — by Otto Coster

Watch this webinar and learn how to supercharge your network with Automated Testing using NetBox with Netpicker.io and replace your 'legacy' config backup tools with a modern and free alternative. It features an introduction to Netpicker.io and integration with NetBox. Discover what these tools can do and how they fit together in a modern Network Automation architecture.



Mock'it

After months of reverse engineering the Netmiko library we launched our **open-source** project: Mock'it

Why would you use Mock'it:

- Lightweight way to simulate every network vendor
- Simulate busy network device by using Login Retry & Login delay
- A way to simulate slow network connection by using CMD delay
- Template engine to load your own show commands
- Snmp simulation
- Netconf simulation
- ChatGPT integration for responding on every command or SNMP request
- Scripting engine to define your own logic and flows
- Build-in ORM to support configurations

Runs on inside a container in Docker or Podman !

[Download now](#)

The screenshot shows a GitHub repository page for `nomios-opensource / pytest-netconf`. The repository is public and has 1 issue, 1 pull request, and 1 tag. A recent commit by `adamkirchberger` updated the codecov badge. The repository structure includes `.github/workflows`, `pytest_netconf`, `tests`, and `.gitignore`. The `develop` branch has 2 branches and 1 tag.



◀ Blog

Effective Dora Compliance Requires Network Resilience



As **DORA** looms nigh,
you must comply!



Kristine Botha
Content Marketing



5 minutes read



◀ Blog

Achieve NIS 2 success with network compliance automation



Achieve
NIS 2 Success
With Network
Compliance Automation



Kristine Botha
Content Marketing



5 minutes read





Home



Kubenet

[discord](#) 235 online

The Kubenet community has been created with the goal to help network engineers understand the potential of kubernetes for network automation. While we discuss networking, we are NOT talking about CNI(s) here, but about using `kubernetes` as an automation/orchestration engine to manage physical, virtual or containerized NOS(s).

If you are interested to learn and discuss [join us](#)

v0.59.0

Latest

What's Changed

- Fix export templates from user's template by [@hellt](#) in [#2240](#)
- Adding HostExec for stages and RestartPolicy by [@steiler](#) in [#2238](#)
- Add compatibility with compressed kernel modules by [@hyposcaler-bot](#) in [#2251](#)
- fix host release name nil pointer by [@steiler](#) in [#2250](#)
- Bump golang.org/x/net from 0.29.0 to 0.30.0 by [@dependabot](#) in [#2246](#)
- Clearer error for not found (or found too many) topo files by [@hellt](#) in [#2253](#)
- Ensure IOL nodes have unique system base MACs by [@kaelemc](#) in [#2239](#)
- fixes rare IPv6 OOB-MGMT by [@Takalele](#) in [#2252](#)
- Reorg the stage exec struct by [@steiler](#) in [#2241](#)
- Remove authz file mount for SR Linux by [@hellt](#) in [#2254](#)
- Rn 0.59.0 by [@hellt](#) in [#2255](#)
- Bump github.com/containers/podman/v5 from 5.2.4 to 5.2.5 by [@dependabot](#) in [#2249](#)
- Bump github.com/docker/docker from 27.2.0+incompatible to 27.3.1+incompatible by [@dependabot](#) in [#2202](#)

New Contributors

- [@Takalele](#) made their first contribution in [#2252](#)

3 MIN READ

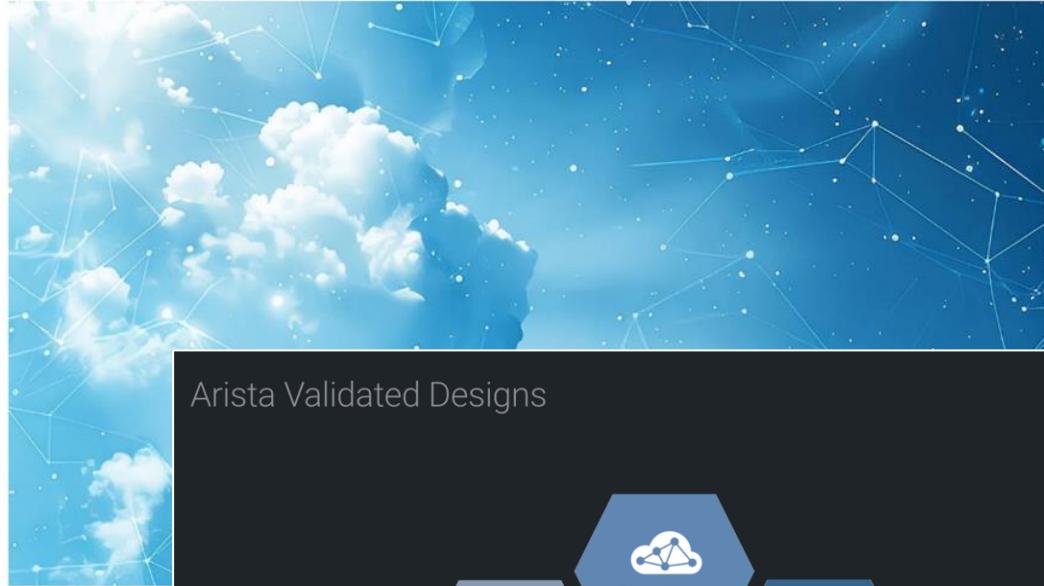
CloudVision: The First Decade



Andre Pech : Sep 24, 2024 6:00:00 AM

2024

Andre Pech



Arista Validated Designs





Industries ▾ Intelligent by Design ▾ Products ▾ Partners ▾ NetDevOps Customers Resources ▾ Company ▾

Gluware Press Releases

Gluware Announces GenAI-Powered Co-Pilot for NetDevOps, Integrations with NetBox and GitHub

October 17, 2024

[VIEW ALL NEWS >](#)

Juniper Expands Industry's Leading AI-Native Networking Platform to Unlock the Full Potential of Wi-Fi 7

09/19/2024

New high-performance access points and switches combine with unique AI for Networking, security and sustainability capabilities to deliver exceptional Wi-Fi 7 experiences at scale

SUNNYVALE, Calif.--(BUSINESS WIRE)-- [Juniper Networks](#)® (NYSE: JNPR), a leader in secure, AI-Native Networking, today announced several key enhancements to its leading [AI-Native Networking Platform](#) that enable customers and partners to take full advantage of the emerging 802.11be amendment ([Wi-Fi 7](#)), which promises higher throughput, lower latency, extended range and greater reliability than previous Wi-Fi versions. By combining new Juniper Mist Wi-Fi 7 access points (APs) and high-power campus EX switches with Juniper's award-winning Mist™ AI and cloud-native networking and security services, Juniper's market-leading wired and wireless Local Area Networking (LAN) access solution uniquely maximizes the [full potential of Wi-Fi 7](#) while enabling a seamless, cost-effective and more sustainable transition to the latest wireless technology.

So.
Much.
Automation.

AutoCon2: Ad Astra

“There’s much more work still to be done”

We speak to hundreds
of teams at all stages of their
network automation journeys

A man in a cowboy hat and coat stands on a hillside, looking out over a vast landscape where a massive wildfire is burning. The fire is intense, with large plumes of smoke and flames visible against a dark sky. The man is positioned in the foreground, facing away from the camera towards the horizon. The terrain is hilly and appears to be charred by fire. The overall atmosphere is one of desolation and the scale of natural disaster.

Day 1 - Out of control

A cowboy wearing a black cowboy hat and a plaid shirt stands on a rocky outcrop, looking down at a large map spread out before him. He is wearing jeans and brown boots. In the background, a massive wildfire rages across rolling hills under a dramatic sky filled with orange and red smoke. A small cabin is visible on a hillside to the right.

Day 1.5 - I need a plan



Day 2+ - In control



Gather and ingest network and infrastructure data into NetBox

- [Organization](#)
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Deviations / 9904239727

dcim.site:24 (ncsu-128)

New device detected

First detected 2024-11-28 22:21 UTC · Last detected 2024-11-28 22:21 UTC

[Re-run Discovery](#)[Ignore](#)

Overview

Details

ID 9904239727

Deviation type New device

Primary object router-01

Object type DCIM/Device

Affected objects 5

Status Open

Branch Main

Source NetBox Discovery

Timestamp 2024-11-28 22:21 UTC

Source data

[+ Apply changes](#)

```
"site": "site new",
"manufacturer": "acme"
},
{
"primary_ip4": "10.255.2.109",
"name": "router01",
"device_type": "router",
"platform": "acmeOS",
"site": "site new",
"manufacturer": "acme"
},
{
"primary_ip4": "10.255.2.109",
"name": "router01",
"device_type": "router",
"platform": "acmeOS",
"site": "site new",
"manufacturer": "acme"
```

Affected objects

Object name	Object type	Status	Change type	
site new	DCIM/Site	Open	Create	[+] [@]
acme router	DCIM/DeviceType	Open	Create	[+] [@]
mgmt	DCIM/Interface	Open	Create	[+] [@]
10.255.2.109/32	IPAM/IPAddress	Open	Create	[+] [@]



Identify, understand and eliminate operational drift

- [!\[\]\(b496c02de063d85294cff4c8d0e536f9_img.jpg\) Organization](#)
- [!\[\]\(24035b469fe5025d3a535695f4188f02_img.jpg\) Devices](#)
- [!\[\]\(7502518fd4477fd834838178c53717f4_img.jpg\) Connections](#)
- [!\[\]\(8424cd437b63091dcc433469d92fc219_img.jpg\) Wireless](#)
- [!\[\]\(f5ef7105d48efe02384a12c8c01940ed_img.jpg\) IPAM](#)
- [!\[\]\(505035b1e293df393bf5de8fceadf12f_img.jpg\) VPN](#)
- [!\[\]\(e807ed289ab9a5514747732150bc1994_img.jpg\) Virtualization](#)
- [!\[\]\(4009f4e4a827a6b1d0cb6a3ec0edff93_img.jpg\) Circuits](#)
- [!\[\]\(4eedc99ea80ea2159b68be0c3e4ff79f_img.jpg\) Assurance](#)
- [!\[\]\(1d4419a4b838635f2286a4536ee2e2fa_img.jpg\) Deviations](#)
- [Dashboard](#)
- [All deviations](#)
- [!\[\]\(6304e3b1a7dbdf1d5358085b9fefec7b_img.jpg\) Power](#)
- [!\[\]\(b5da4a619918a0ae4313e29fd31ed707_img.jpg\) Provisioning](#)
- [!\[\]\(3eb48135810876deed839e96533103de_img.jpg\) Customization](#)
- [!\[\]\(92add7f134c35b49401cf59044f0d0c3_img.jpg\) Operations](#)
- [!\[\]\(3119ba6b49ee0489123f39656e540b80_img.jpg\) Admin](#)

Assurance

NetBox Discovery last run: 2021-04-02 00:00

[Export](#)

Last 7 days Nov 12 10:59 - Nov 19 10:59 UTC

[Add filter](#)

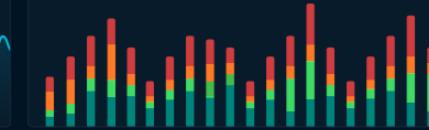
Deviations by Object Type

1028 ↓ 12%

Ingested Messages vs Deviations

563 ↑ 4%

Deviations by Deviation Type

1028 ↓ 12%

Showing 1-16 of 32 < >

 Discovered new IP

IP 172.16.16.1/30 discovered

main

[Open](#)

22:21UTC

 Discovered new IP

Interface EXP/2 description discrepancy

main

[Reconciled](#)

22:21UTC

[Changes](#)[Source data](#)

Deviation reconciled 2024-11-19 23:40

Object name	Object type	Change type	Change data
1 site new	DCIM/Site	Create	<pre> "site": "site new", "manufacturer": "acme" }, { "primary_ip4": "",</pre>
2 acmerouter	DCIM/DeviceType	Update	<pre>+ "primary_ip4": "10.255.2.109",</pre>
3 mgmt	DCIM/Interface	Create	<pre> "name": "router01", "device_type": "router", "platform": "acmeOS", "site": "site new", "manufacturer": "acme" },</pre>
4 10.255.2.109/32	IPAM/IPAddress	Create	<pre>- "primary_ip4": "",</pre>

 Discovered new IP

Device router-01 discovered

main

[Reconciled](#)

22:21UTC

Delivering the Foundations of Open and Composable Network Automation, together



NetBox & Friends Social



- 4 mins walk from the hotel
- 7pm today



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