

2023 State of Network Automation Survey

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NANOG 87
15 February 2023
Atlanta



Who's This Guy?

Co-Founder & CSO at FullCtl.com

Co-Founder of IX-Denver, Director at OIX

Interconnection and Automation for about 20 years

Previous Lightning Talks:

- [Will I be replaced by a script? The future of network engineering.](#)
- [The API is the new CLI?](#)
- [WTF is SDN?](#)

Man of many hats

Network Automation is HOT



Network Automation is HOT

Just this week:

- Uncommon Paths to Beginning Network Automation
- Simplified Troubleshooting through API Scripting
- Overcoming Imposter Syndrome to Further Your Network Automation Journey
- Network Automation Tools Showdown
- ChatGPT and Networking Engineering

Years of talking about it

With Good Reason

- Deperimeterization
- WFH
- BYOD
- IoT
- Microservices
- Hybrid Multi Super Cloud
- The Edge!!!

With Good Reason

Networks are getting larger and more complex



And Good Options

- Network Design
- Device Deployment
- VNF Deployment
- Service Provisioning
- Interconnection Provisioning
- Traffic Engineering
- Non-Provisioning Changes
- Troubleshooting
- Firmware & Software Upgrades
- Capacity Planning

And Good Options

- Homebrew Scripts
- Open Source Applications
- Commercial Applications

E.g: Pearl, Python, Go, Bash, Cron, Jinja2, YAML, NETCONF, RESTCONF, JSON, Terraform, Ansible, Puppet, Chef, Salt, Nornir, NAPALM, Netpalm, OpenFlow, P4, Netmiko, Git, Apstra, Glueware, Frinx Machine, API, Stackstorm, Itential, NetBrain, ATOM, Blue Planet, NSO, Cloudvision, Netbox, Nautobot, NCM, NetMRI, BackBox, Entuity, DCIM, DDI, Forward Networks, IP Fabric, SDN, IBN, ixCtl, peerCtl...

(apologies to the many that I missed)

But Where Are We Really?



But Where Are We Really?

Are you ahead of the pack, or running behind?



Let's Find Out!

<https://forms.gle/ShVfyTTNeJaoJpAz9>

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Anonymized results will be provided to all participants, as well as presented at one or more major networking conference(s).

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* Required