NetBrain
DEMOCRATIZING NETWORK AUTOMATION

Top-10 Continuous Assessment By Example

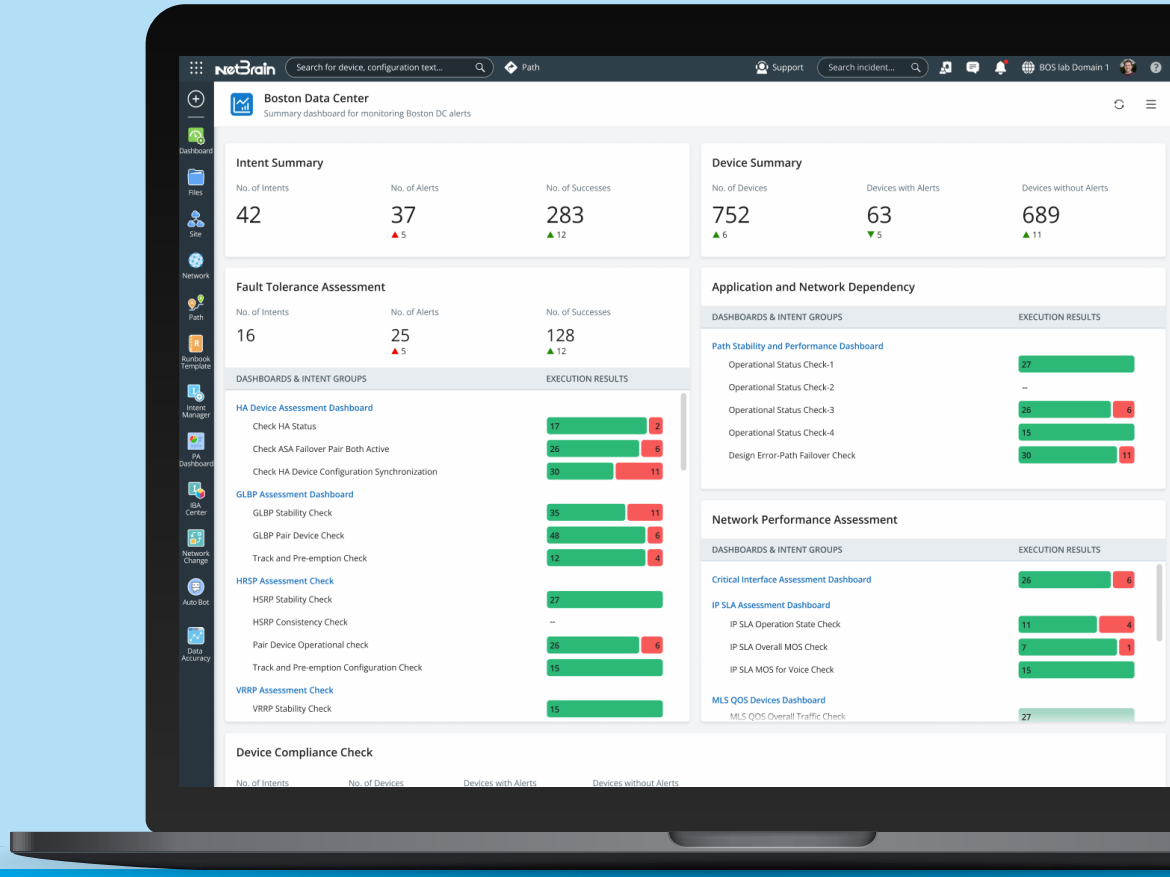
Build Automation for Proactive Network Management

In today's digital age, maintaining optimal network performance is crucial for any organization. Network assessments play a vital role in identifying potential issues, optimizing performance, and ensuring compliance with industry standards. However, traditional manual assessment methods can be time-consuming and prone to human error.

This eBook explores the top 10 network assessments you can automate to achieve proactive and efficient network management. We will delve into each assessment, discuss its benefits, and provide practical guidance on how to automate it using available tools and technologies.

Top-10 Continuous Assessment Dashboard Examples

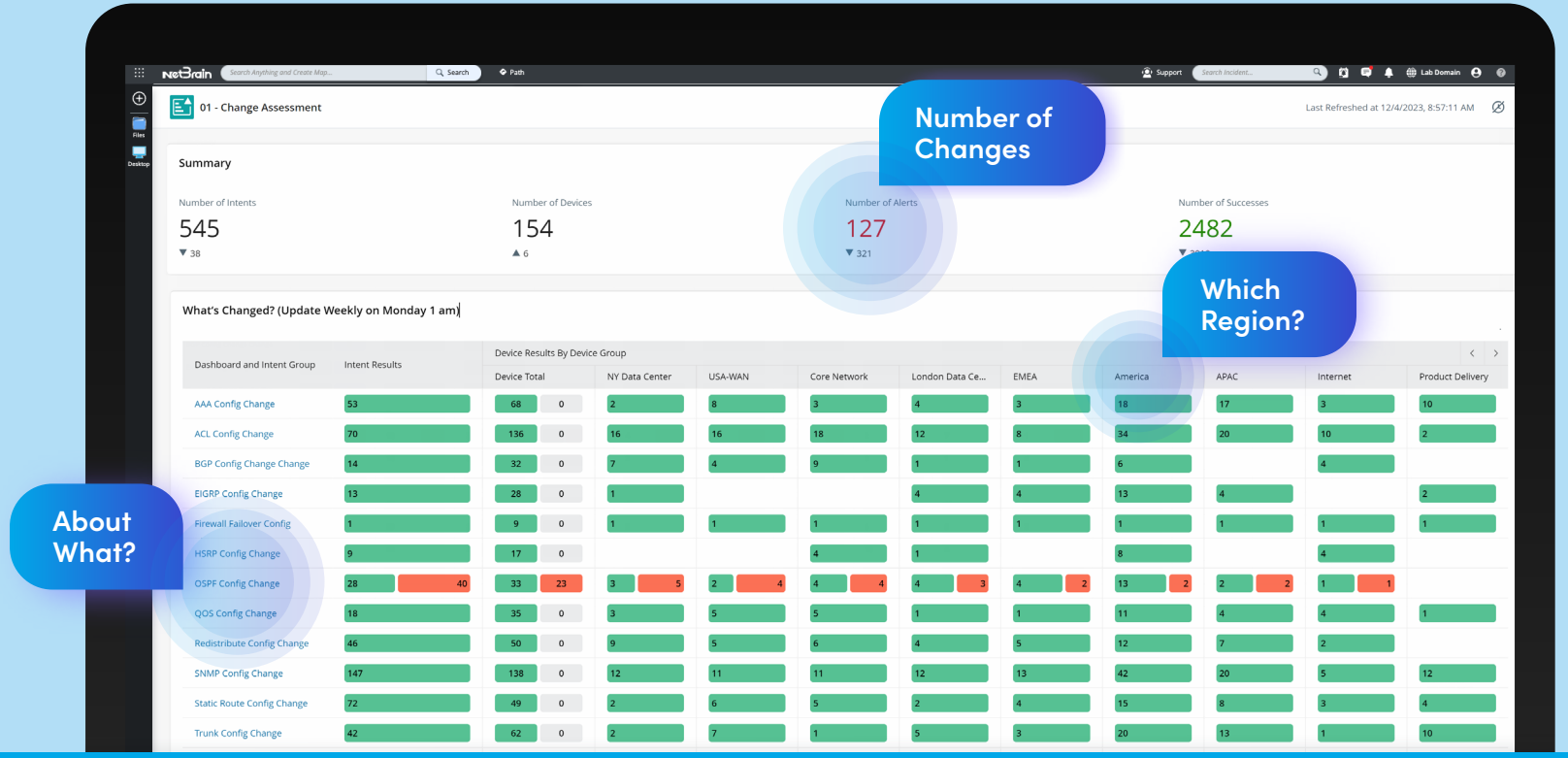
1. **Change Assessment** – What's changed in my network?
2. **Anti-Drift Assessment** – Are there deviations from my config rules?
3. **Network Health Assessment** – Is my network 100%?
4. **Critical Applications** – Are my applications healthy?
5. **Security Assessment** – Am I vulnerable to known NIST standards and CVE bulletins?
6. **Life Cycle Management** – Is my hardware End of Life, End of Service?
7. **Hybrid Network Assessment** – Is my cloud, ACI, hybrid network healthy?
8. **Triggered Automation Assessment** – What issues occurred in the last hour, day?
9. **Past Outage Assessment** – Are known problems happening again?
10. **Capacity Assessment** – Is my network running out of bandwidth?



1 Change Assessment – What's changed in my network and where?

Monday morning, a few outages are reported...

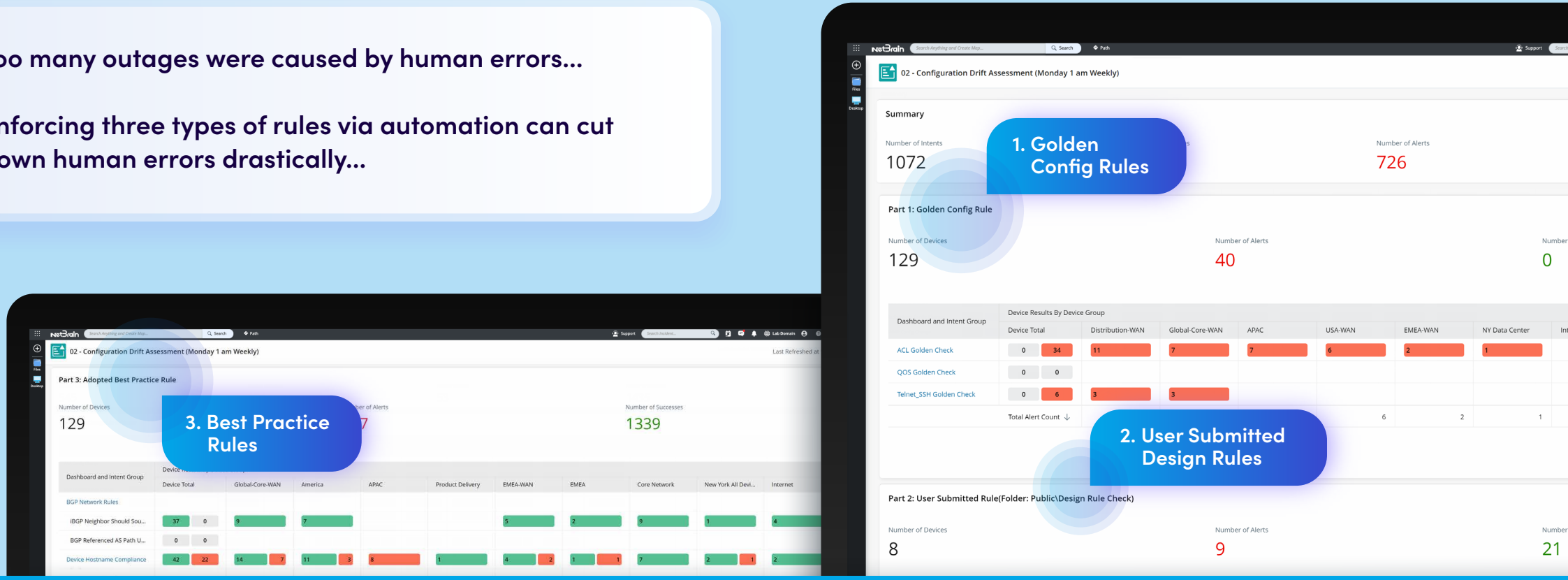
You are wondering what's changed over the weekend and where? Are they related?



2 Anti-Drift Assessment – Are there violations to configuration rules?

Too many outages were caused by human errors...

Enforcing three types of rules via automation can cut down human errors drastically...



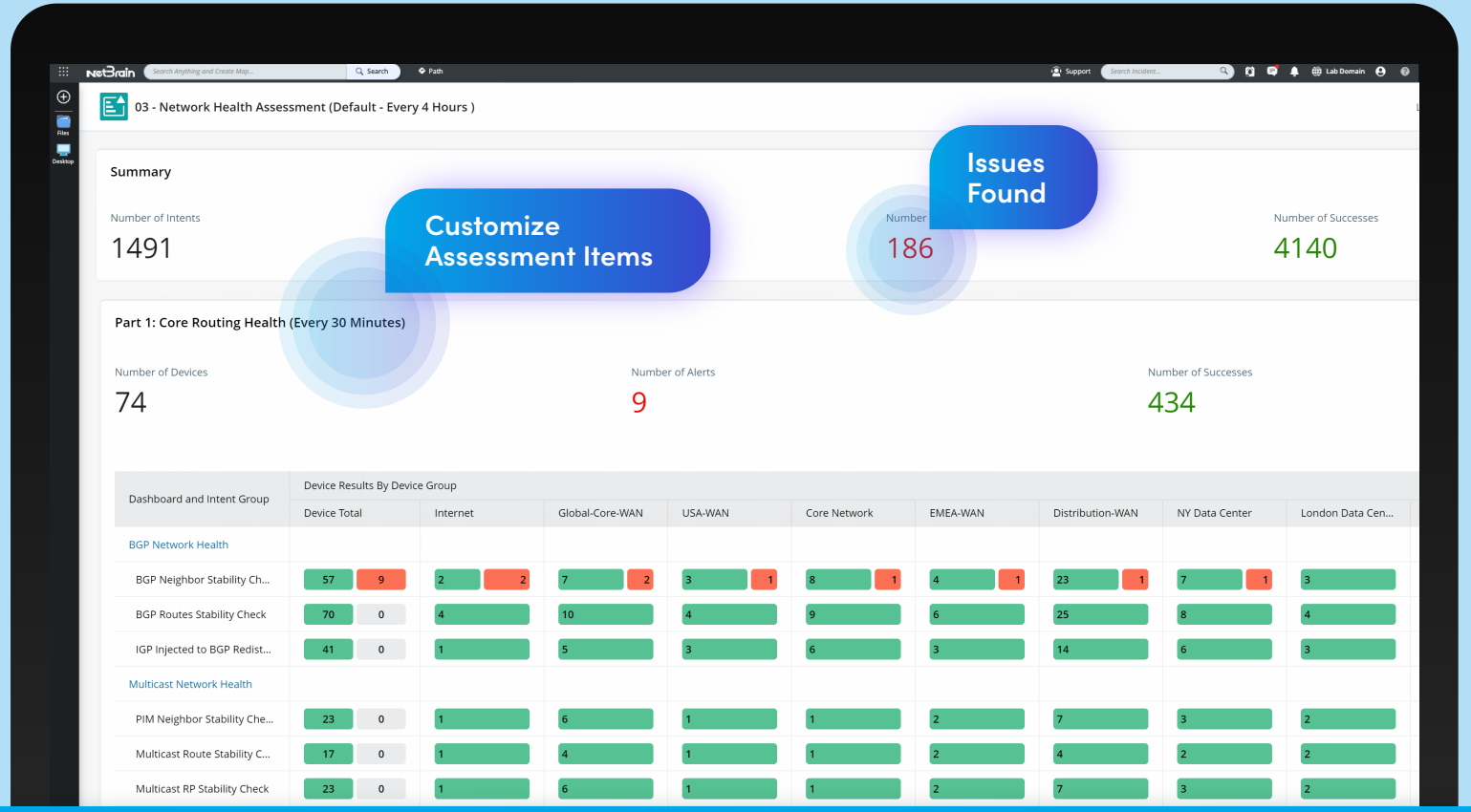
3 Network Health Assessment – Is My Network 100%?

Networks are designed with many features and redundancy: are they functioning?

Continuously Assess:

- L3 Routing
- L2 Switching
- Failover
- VPN
- Wireless
- Error log
- …

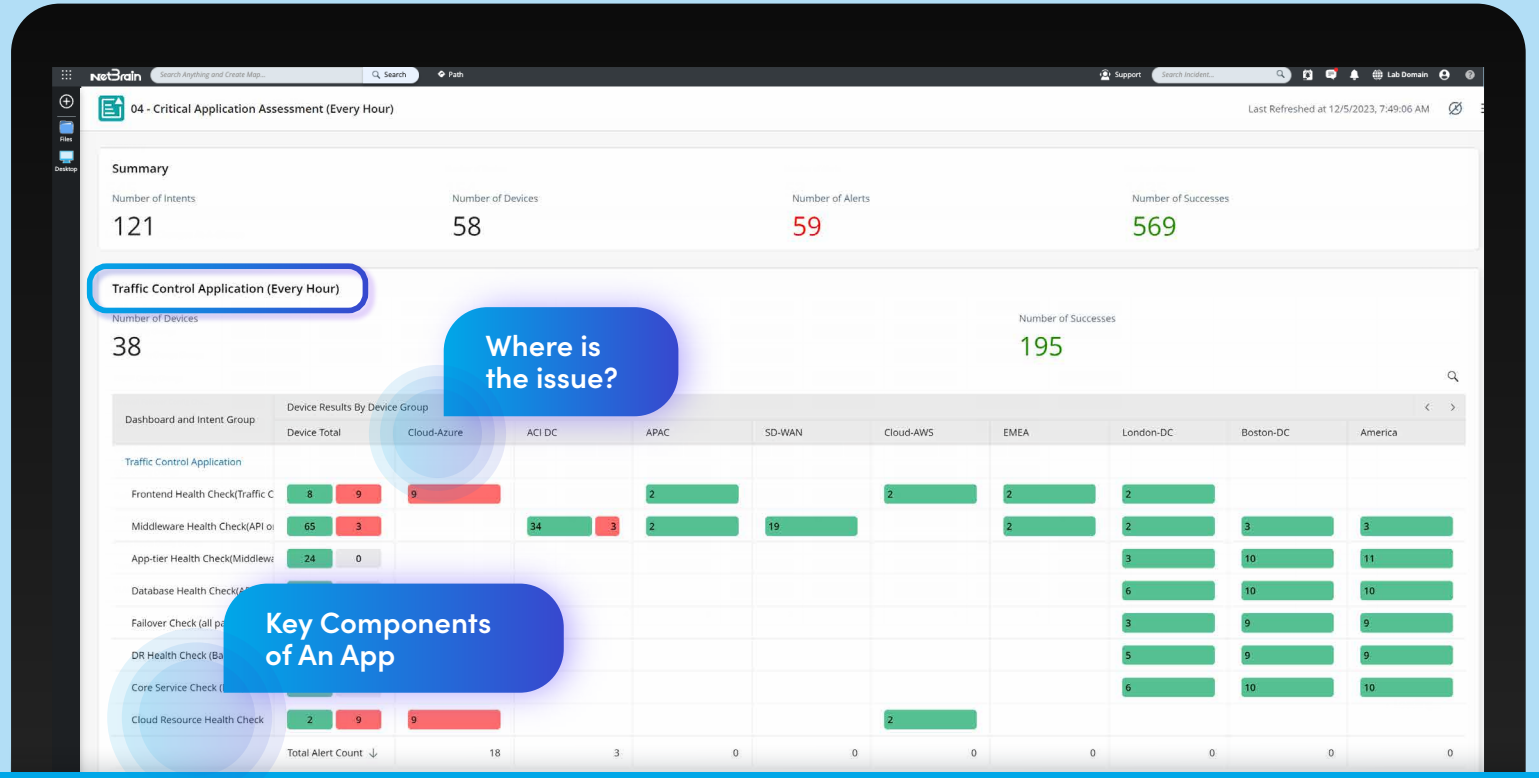
Across entire network.



4 Critical Application Assessment – Is My Application Running Healthy?

For both simple and complex applications, the only way to ensure their health is to have full visibility of underlying components and continuously assess their health.

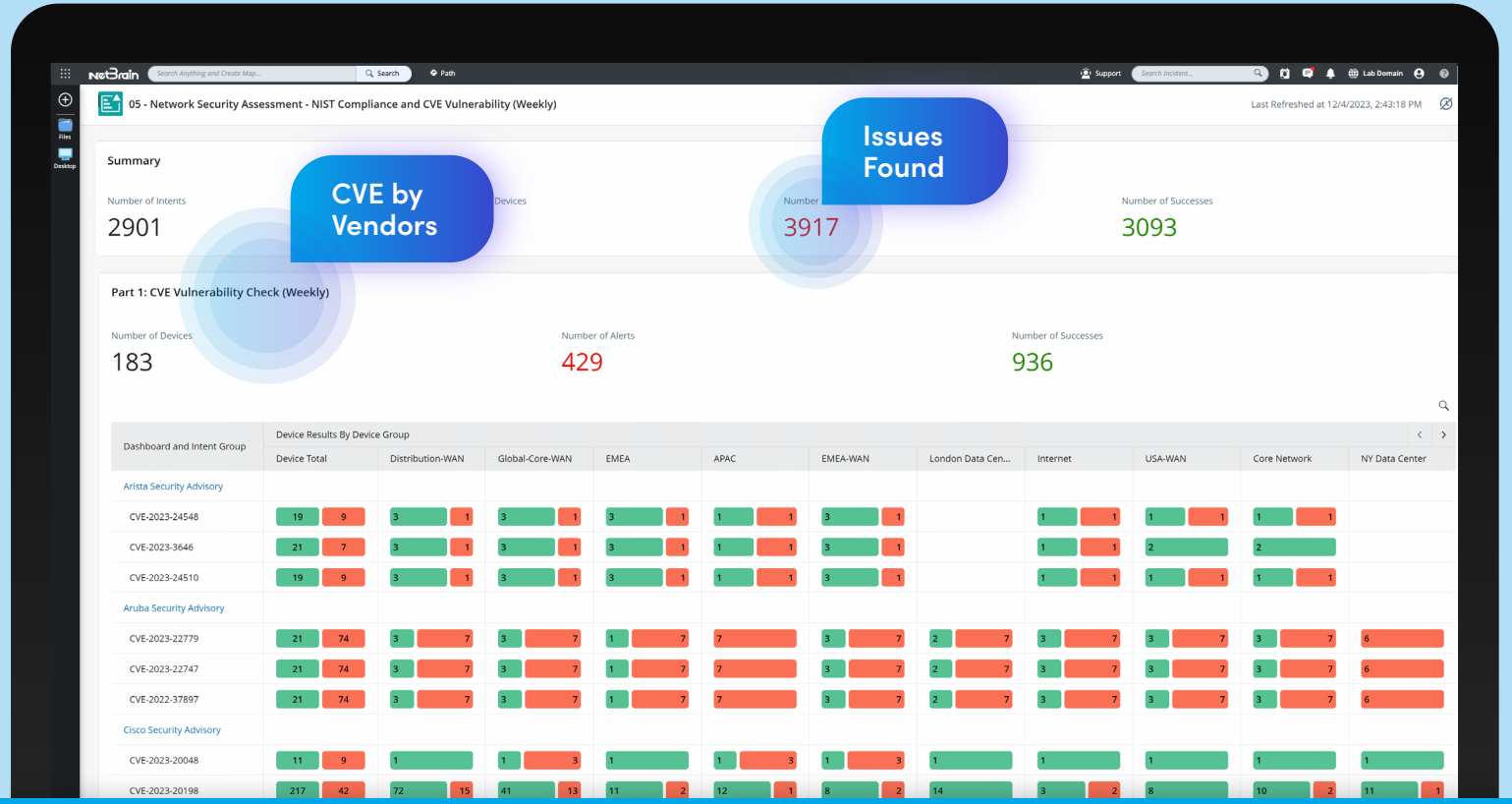
Build automation to achieve this goal for all critical applications.



5 Security Assessment – Is My Network Vulnerable According to NIST Standard and CVE Bulletin?

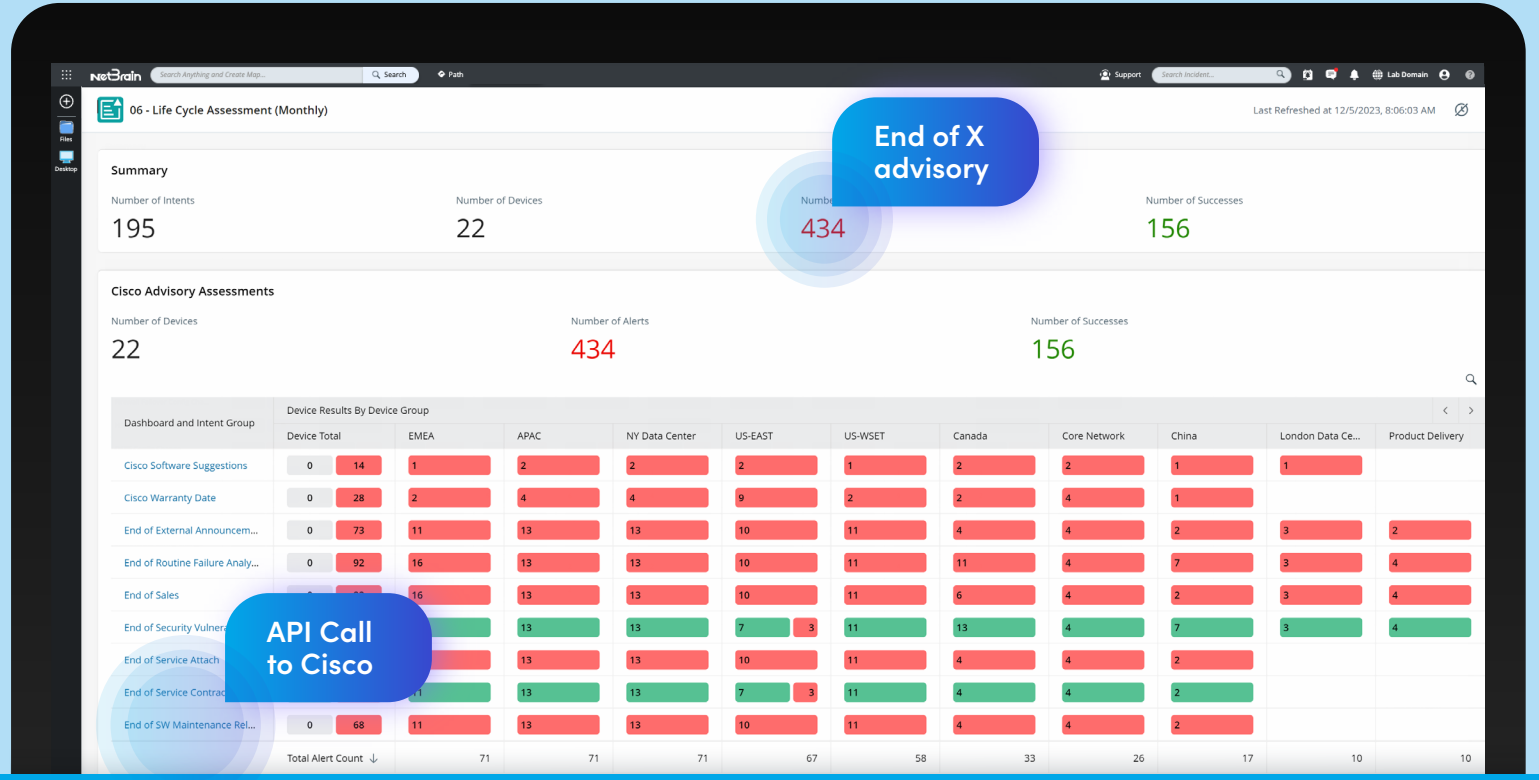
Industries are working together to enhance network security. NIST publishes a set of configuration standard for security, and CVE shares vendor reported vulnerability and exposure.

Apply automation to check your network against those standards.



6 Life Cycle Assessment – Is My Hardware End of Life, Out of Maintenance...?

Automatically make API calls to hardware vendors (like Cisco) to get up-to-data advisory of end of life, maintenance, service, warranty information of your network.

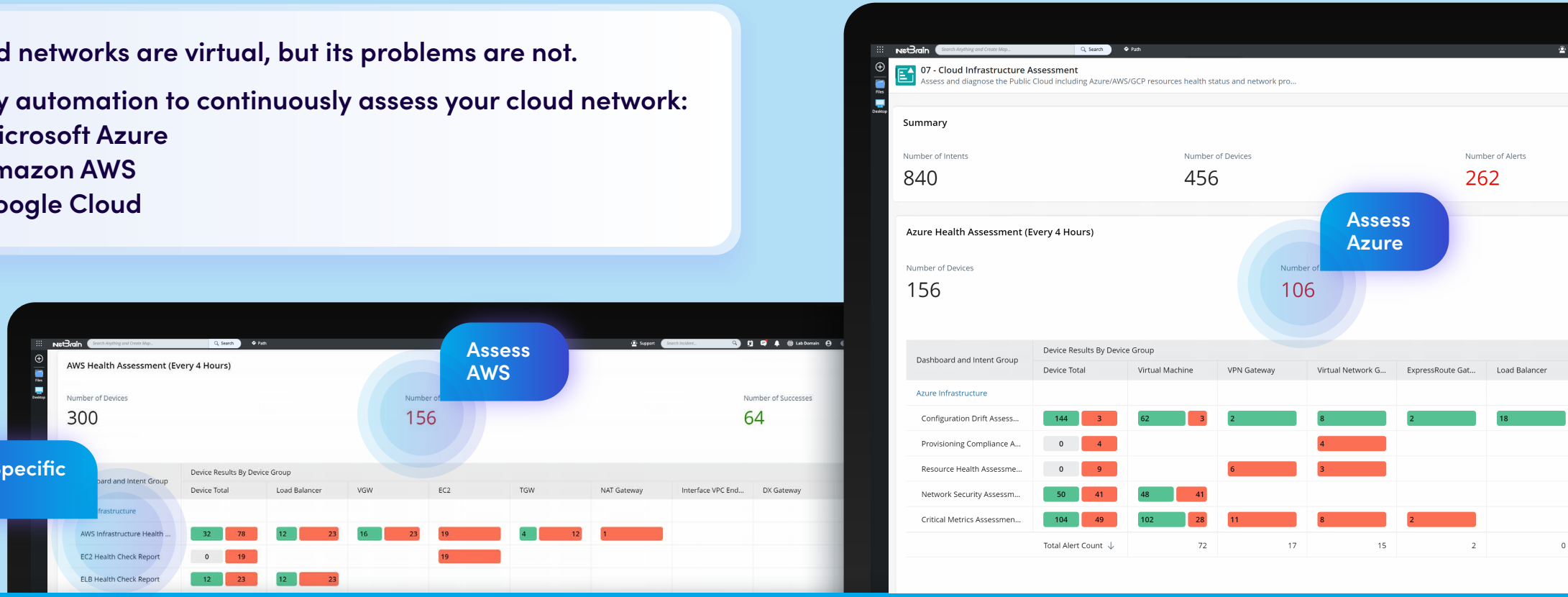


7 Hybrid Network Assessment – Is My Cloud Healthy?

Cloud networks are virtual, but its problems are not.

Apply automation to continuously assess your cloud network:

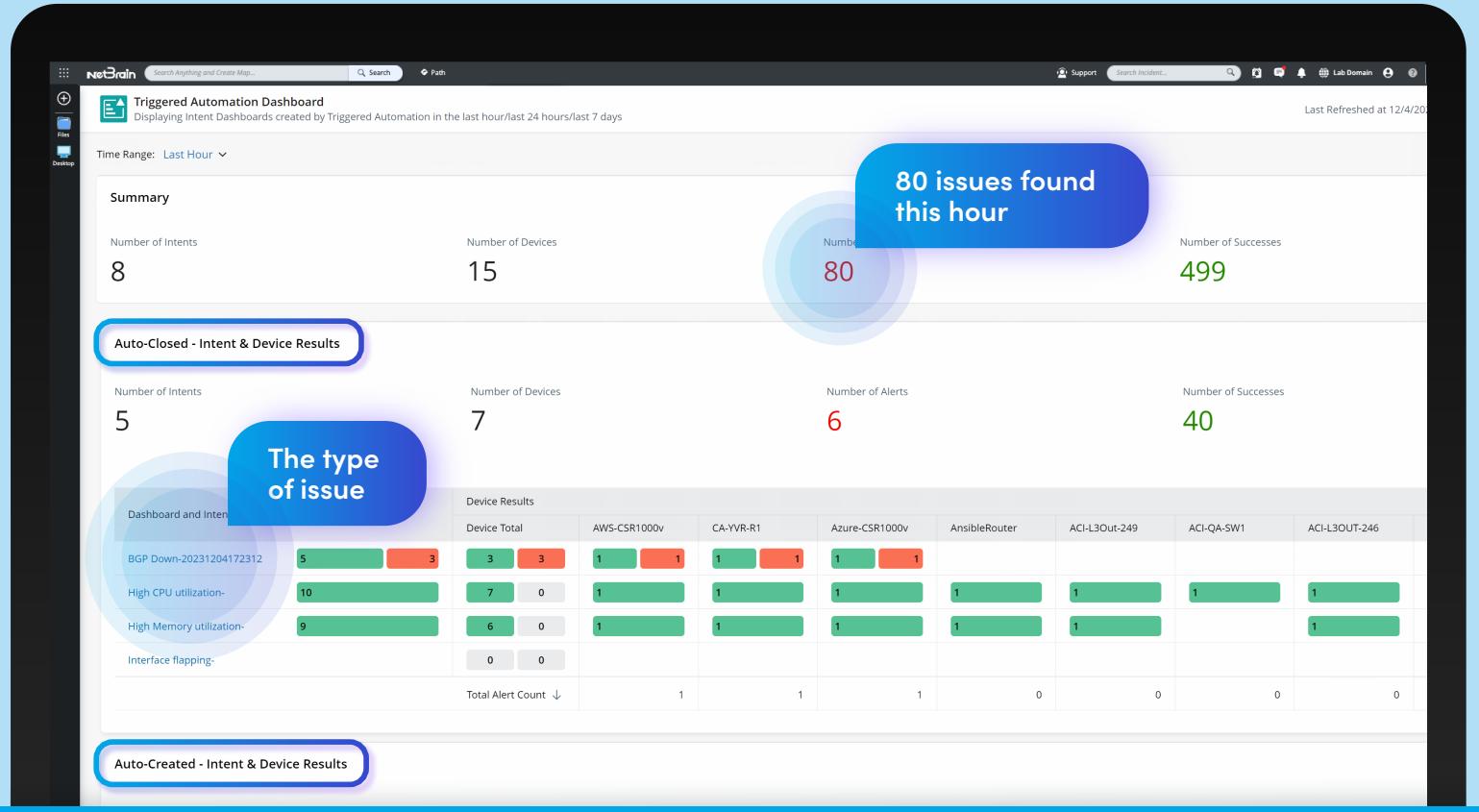
- **Microsoft Azure**
- **Amazon AWS**
- **Google Cloud**



8 Triggered Automation Assessment – What are the issues found at this hour?

Apply auto-diagnosis to incoming incident via API, leading to:

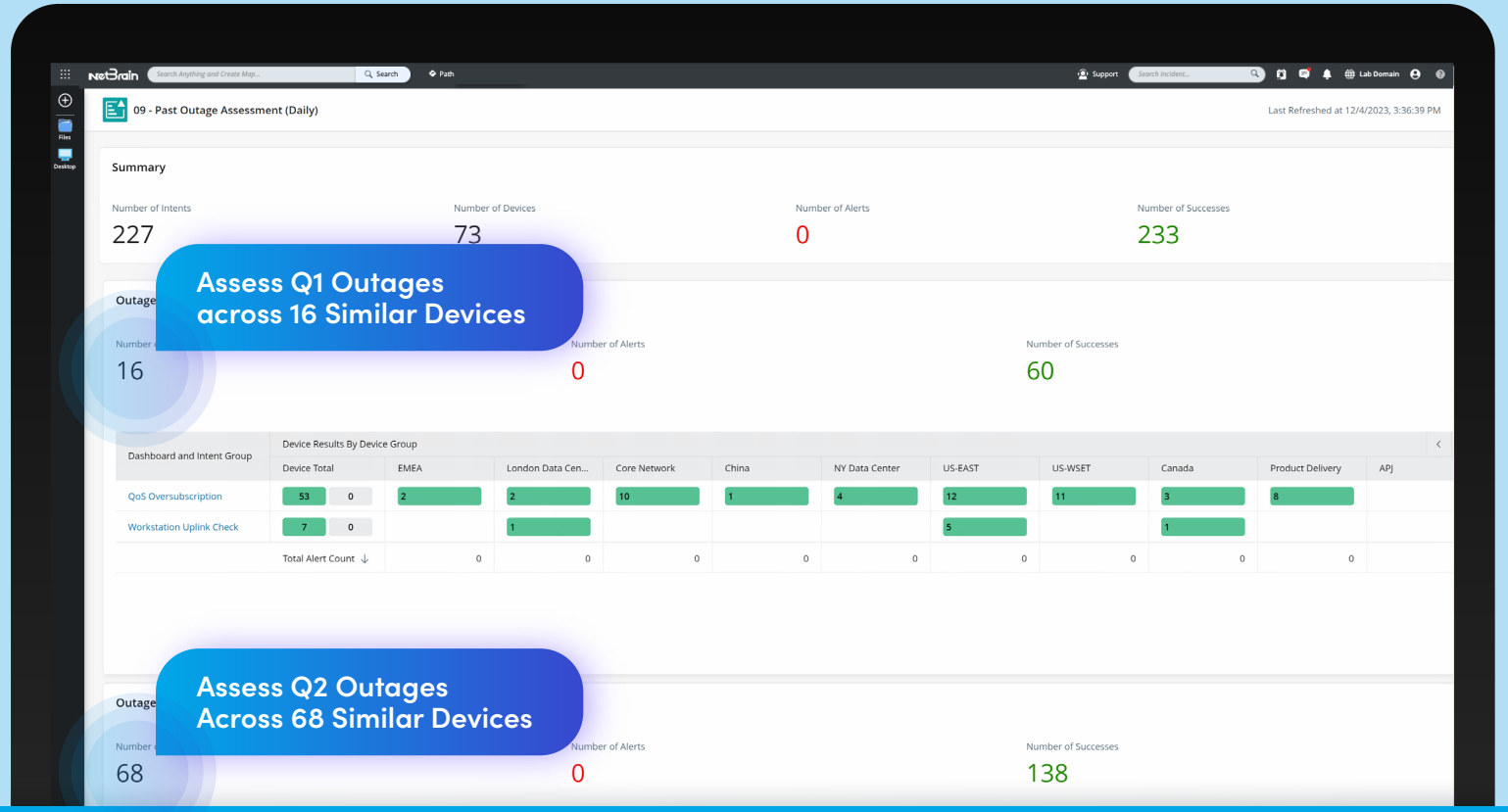
- Auto-closing ticket if problem is a noise
- Auto-opening if issues are found
- Auto-priority if impact is high



9 Past Outages Assessment – Are Known Problems Happening Again?

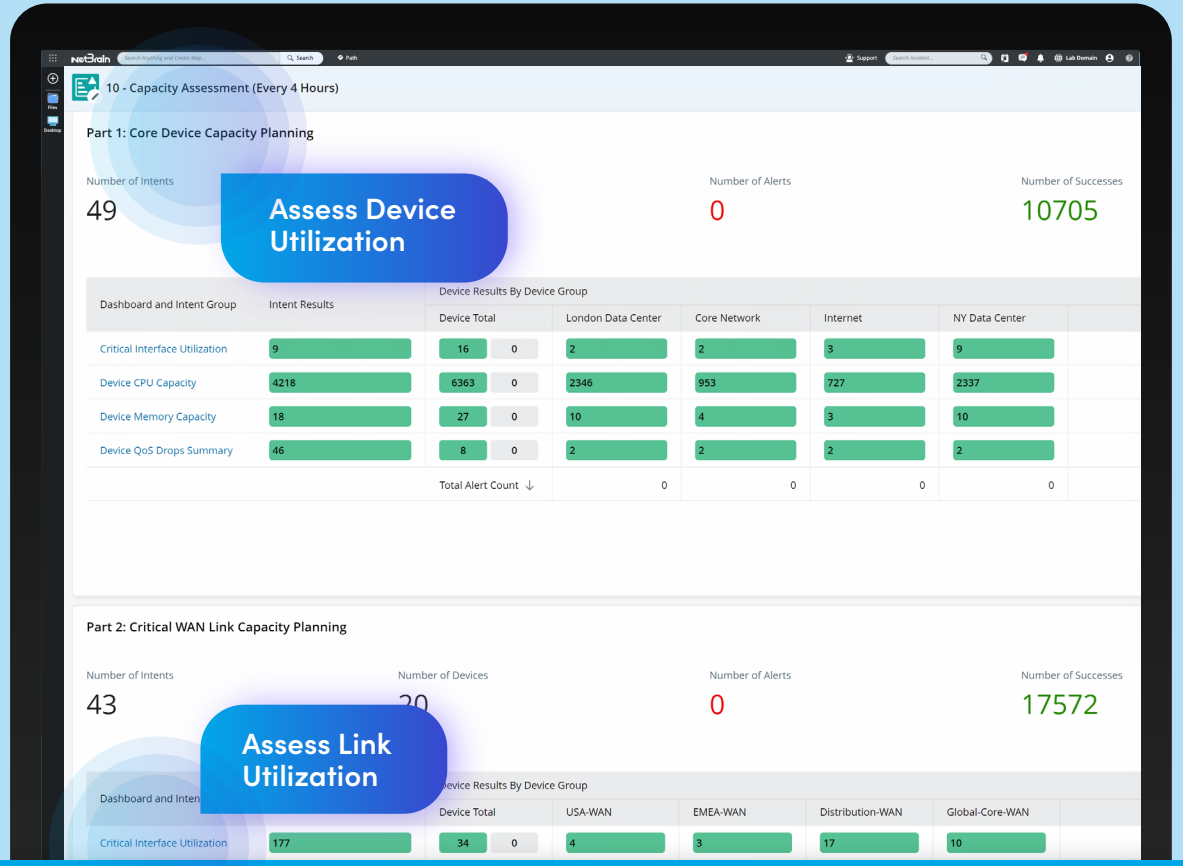
For every problem that happened in your network before, could it happen again? In other part of network?

It could. Apply problem-based assessment across your network and monitor the results continuously...

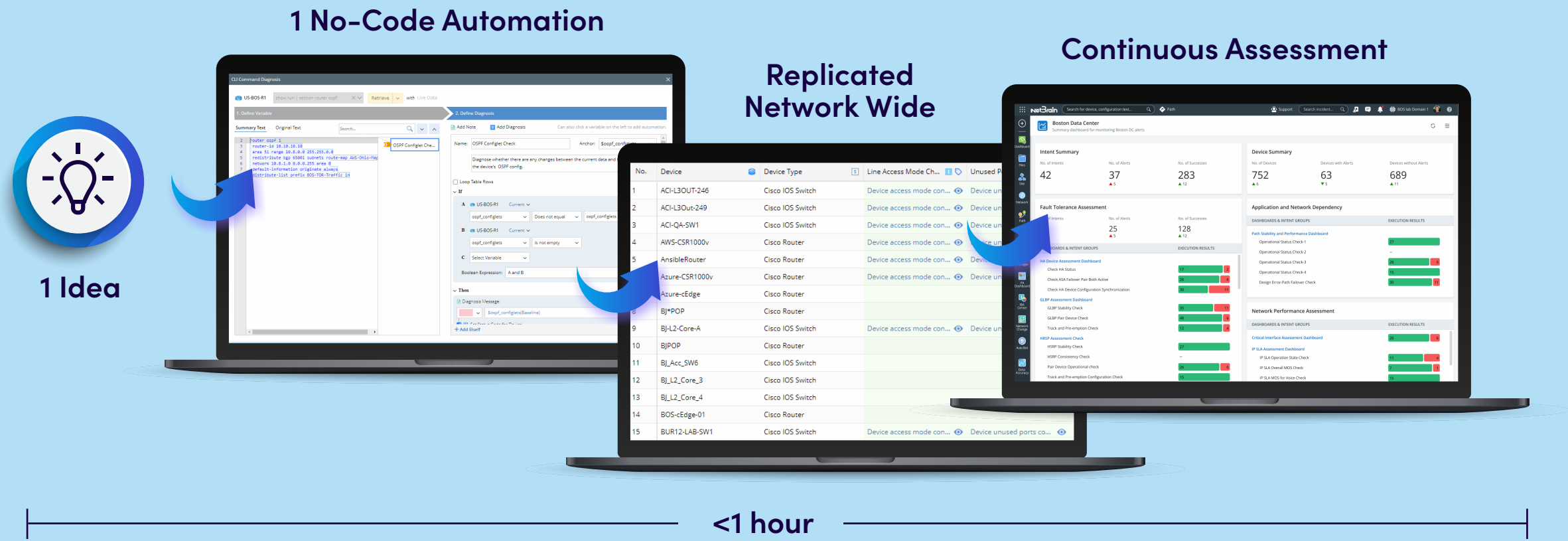


10 Capacity Assessment – Is My Network Running Out of Bandwidth?

Continuous capacity assessment reduces the risk of over-utilization and under-utilization across network...



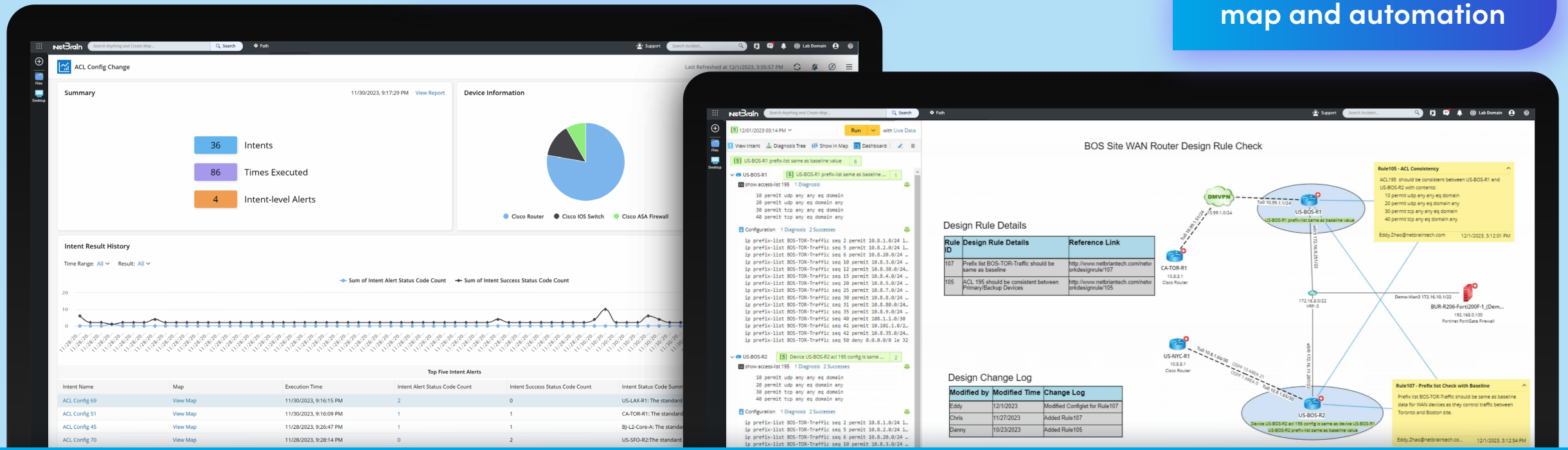
From an Idea to a continuous assessment – No-Code Automation



Drill-down to Detail Dashboard and Map Intent

Drill down to assessment over time in detail dashboard

Drill down alert to map and automation



About NetBrain Technologies

Founded in 2004, NetBrain is the market leader for NetOps automation, providing network operators and engineers with dynamic visibility across their hybrid networks and low-code/no-code automation for key tasks across IT workflows. Today, more than 2,500 of the world's largest enterprises and managed service providers use NetBrain to automate network problem diagnosis, generate real-time documentation, accelerate troubleshooting, and enforce enterprise architectural rules.

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