

Redefining Network Assessments in the Era of Automation

Strategies for Highly Proactive Network Operations



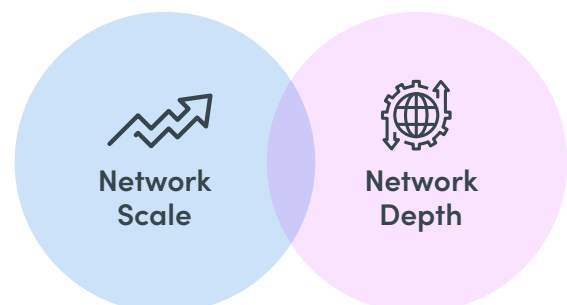
A fundamental tenet of IT is business continuity. Delivering IT services reliably is more difficult than ever as hybrid-cloud, multi-vendor networks get more complex with infrastructures comprised of dozens of vendors and hundreds of different models over their lifespans. To overcome these challenges, IT requires an up-to-date understanding of their entire hybrid network - every device from every manufacturer and connections for each in real-time. For years, acquiring this information has been an annual assessment project outsourced to service providers.

Network Assessments have come to be perceived as a required chore – the only way to satisfy the need to understand the network and its vulnerabilities and bottlenecks. However, this meant costly projects that spanned months, only to get a surface-deep understanding of your infrastructure as it existed at a certain point in time. The problem is that they quickly become out of date with today's constantly changing networks.

That's why Network Assessment is now undergoing a major transformation due the advent of no-code automation, shifting from being narrowly used as an outdated audit-related task to becoming a strategic real-time operational tool that empowers your operations teams daily. Now, you can schedule a comprehensive network assessment to run 24x7 to look at the network holistically without extra overhead or the need to outsource. This addresses the critical requirement of ops teams to avert network disruption in modern digital businesses.

No-Code Automation Drives Continuous Network Assessments

NetBrain's no-code automation platform revolutionizes the notion of Network Assessment, transitioning it from a static document into an ongoing, dynamic health check. This empowers your operations teams with ongoing and valuable network insights that span your hybrid network at enterprise scale.

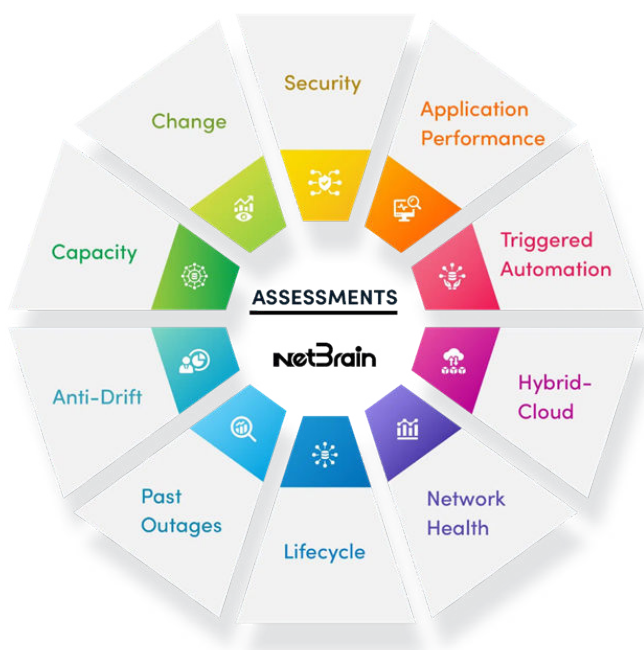


Quickly Reveal Network Vulnerabilities and Bottlenecks

Uncover unidentified network problems before they wreak havoc on your business services and negatively impact the user experience. Continuous Network Assessments give your teams a 360-degree understanding to aid in maintaining network health.

1. Post-Mortem - After a network outage, assess how many similar problems you might have across the network.
2. Security and Compliance - From security compliance to vendor recommendations, you can assess any vulnerability and fix them before problems occur.
3. Network Design and Resilience - Assess network performance, network design, and stability.
4. Application Health - Better support critical applications.

Real-time Network Assessments now offer a comprehensive view of your network's operating conditions.



Set up assessments to run on an hourly, daily, or weekly schedule via a timer. Or, implement an event-driven approach and run incremental assessments based on changes, alerts (even from your other systems), and smart probes.

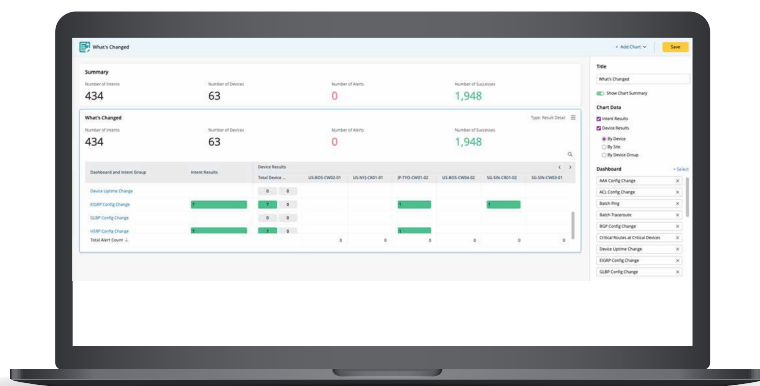
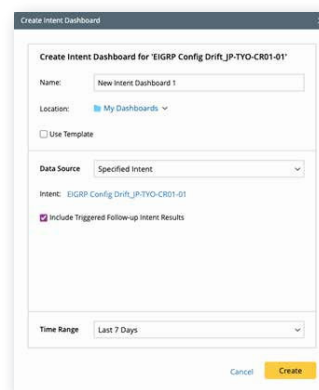
Get a Deeper Understanding of Your Network at Scale

NetBrain Network Assessment is designed to be collaborative, consolidating the combined expertise and institutional knowledge of your organization's best and brightest engineers with machine-level scale and efficiency to ensure network health continuously. In fact, every subject matter expert, enterprise and network architect, security analyst, and application deployment specialist can enter his own set of conditions through the no-code interface capturing them as Network Intents. These describe the results and behaviors expected from the network. With a comprehensive set of Intents (up to thousands or more), NetBrain's automation engine can evaluate all of the intents on a continual basis.

Automated Creation and Replication of Network Assessments

NetBrain makes it easy to create Network Assessments with its no-code platform, Next-Gen, and apply them to other closely-related scenarios in your network.

- Define assessment requirements with the no-code visual parser.



Replicate anything your engineers can do automatically to other parts of the network with similar requirements.

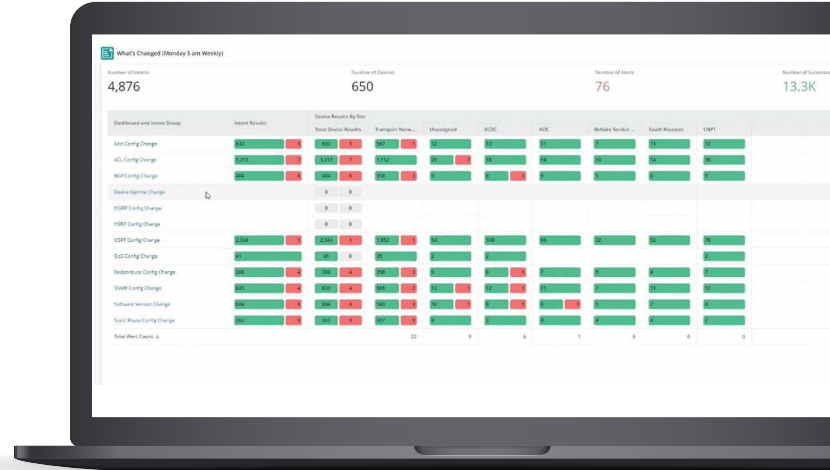
- Model assessments across the network in the Automation Data Table (ADT) and then define the criteria for replicating them to other assets across your network. This can include replicating to every device within a domain or a selected group of devices meeting specific criteria.

Schedule network assessments to run automatically once or for a set duration.

- Set the Intent Timer in the Intent-Based Automation (IBA) Center based on recommended schedules for continuous network assessments.

Each team can have their own assessments that can then be part of a larger overall network assessment. In this way, the individual assessments can be run one at a time or with the entire assessment.

As you continually update and upgrade your network with new technology, you can quickly create and modify existing assessments with the ease of proprietary no-code automation.



Assessment Output

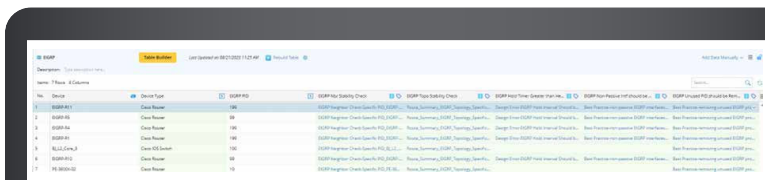
There are three types of Network Assessment outputs: 1) Dashboard (which shows the intents, devices, and alerts), 2) CSV output (from ADT/intents), and 3) ADT (showing the basic data and alerts).

Display Automation Results in Summary Dashboards

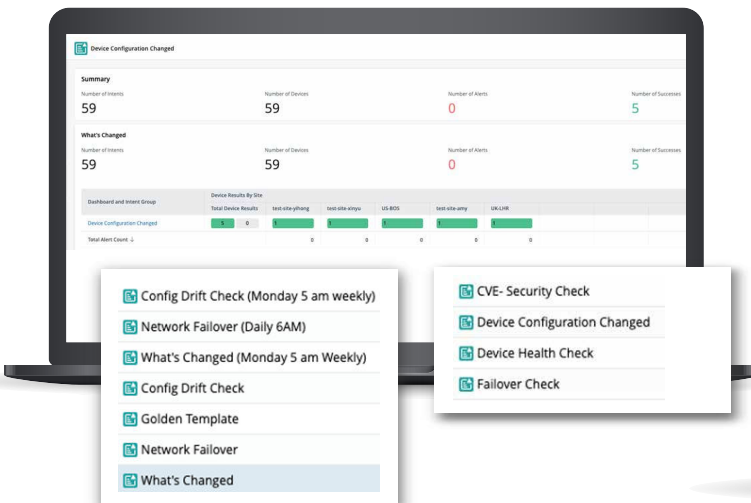
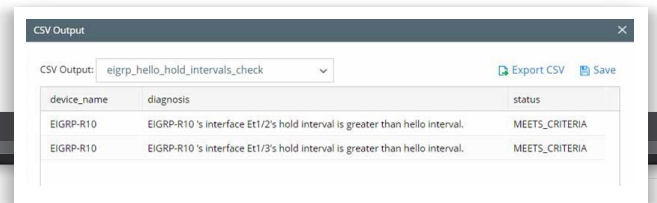
Summary Dashboards are the centralized and fully customizable automation interface to monitor execution of all your developed automation from a single location. It provides you, your peers, and management with an automatically refreshing overview of the automation execution results allowing you to monitor, analyze, and manage various aspects of your developed automation from a single location.

- Group automation results by Feature, Function, or Diagnosis Type
- Define "Top X" Device Widgets to identify heavily affected or misconfigured devices
- Present results grouped logically by Device, Site, or Device Group

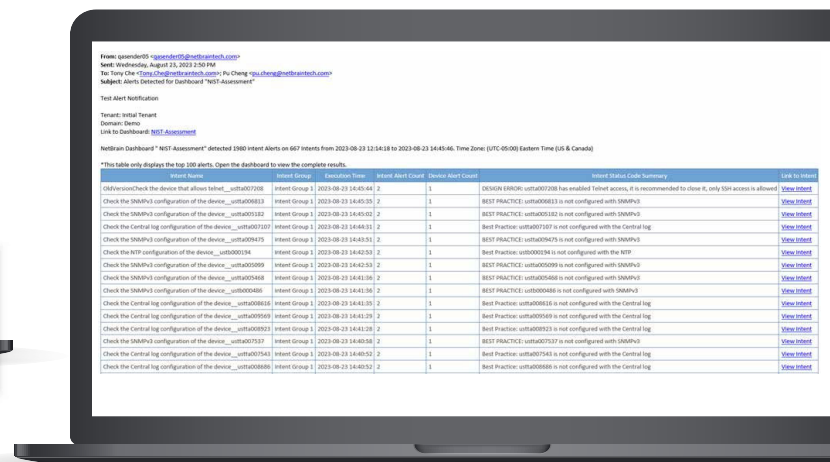
ADT output:



CSV output:



Summary Alert Email for NIST Compliance Assessment



Benefits

- Improved network visibility: get a comprehensive view of your network at all times, so you can quickly identify any problems.
- Reduced risk: identify and fix vulnerabilities and bottlenecks before they impact users.
- Improved performance: identify and remediate traffic bottlenecks, so your business applications run at optimal service levels.
- Enhanced compliance: ensure that your network is compliant with all relevant standards and regulations.

Achieving Proactive Network Management through Continuous Network Assessment

Network Assessments are undergoing a major transformation boosted by the emergence of no-code automation from reactive to preventive. Traditional network assessments are static and time-consuming, but continuous Network Assessments powered by NetBrain's no-code automation technology can provide a 360-degree view of your network in real time. This allows you to proactively identify and fix network vulnerabilities and bottlenecks, improve network performance and reliability, and stay compliant with regulatory standards and vendor recommendations with a consistent approach.

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.

