

NetBrain 10.0 is the industry-leading platform for network operations automation used by nearly one-third of the Fortune 500 and backed by 17 years of research and innovation. NetBrain enables enterprises to maximize network uptime and minimize Mean Time to Remediation (MTTR) to ensure optimal network operations. NetBrain achieves this through a robust set of no-code tools that give network and IT teams deep network visualization and critical data analysis capabilities for building intelligent network automations at scale.

Dynamic Network Map: A console for automation and collaboration

At the foundation of NetBrain is on-demand mapping is powered by a mathematical model of the network which is created and automatically updated through deep network discovery.

- » **Discovery.** NetBrain finds every connected infrastructure device on your network, from the edge to the cloud, showing its location and how it is connected to other devices.
- » **Visualize any network.** Visualize hybrid physical, virtual, cloud, and software-defined networks from end-to-end with ease regardless of size, vendor mix, and complexity.
- » **Map traffic flows end-to-end.** For many workflows.
 - A-B Path Mapping. NetBrain has programmed the control plane logic of hundreds of network hardware models. Through this, any A/B path can be calculated end-to-end, across any network technology.
- » **Visualize all data.** The Dynamic Map provides real-time visualization of all network data, providing you with your Map of Everything – network inventory, topology, decoded design, and network baseline.
 - Plug into any 3rd party data tool via RESTful API. NetBrain easily connects to ITSM, network monitoring, and cloud-based data engines, among other valuable data sources to become a single source of truth for network operations.
 - API-triggered diagnosis. A NetBrain diagnosis can be triggered by an event from a ticketing or monitoring system for instant analysis and visualization of data.
- » **Compare current and historical data.** NetBrain makes it easy to compare network data between any two points in time.

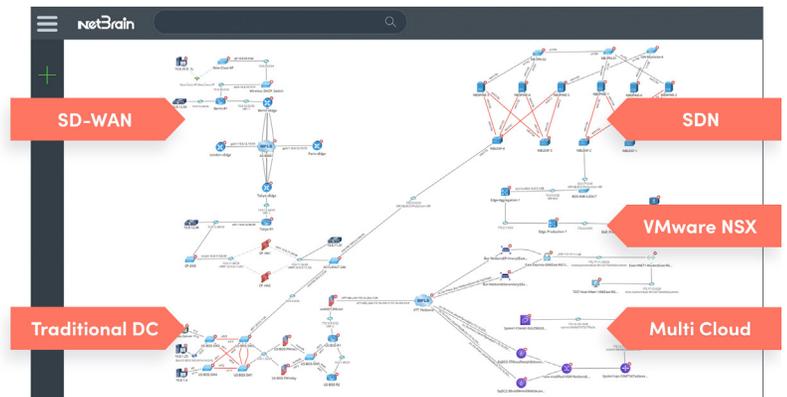


Figure 1. NetBrain Dynamic Map

No-code Network Automation

Executable Runbooks

Executable Runbooks allow network teams to be more productive as they can quickly build automated troubleshooting and operational processes without code, enabling anyone on the team to solve network operations problems. These processes can be overseen by anyone on the team. Each no-code Executable Runbook uses a Dynamic Map as input

for data analysis as well as visualization of the output. With Executable Runbooks, you can:

- » **Digitize knowledge and processes.** Executable Runbooks are fully programmable, without scripts, enabling team members to build automated processes without code.
- » **Make workflows executable.** Each step in a runbook can be executed with a click, to automate data collection and analysis.
- » **Document and share analytics automatically.** All data captured during runbook execution is stored inside the runbook for easy playback and sharing.
- » **Compare against historical data.** Check historical data against live data or other historical benchmarks to spot changes made to device configurations and topology over time.

In addition to Executable Runbooks, NetBrain 10.0 provides several groundbreaking no-code/low-code innovations that enable IT to do what NetBrain refers to as “democratizing network automation”, or providing frameworks for team members not fluent in coding to build automations, and increase the productivity of the networking team in responding to tasks and tickets. These include:

- » **Visual Parser.** Sorts through a deluge of network data to extract the right information to build automations faster.
- » **Data View Template.** Decode any network with a contextualized data layer showing key configurations and network state, so that any engineer can be an expert.
- » **Qapp.** A reusable automation unit that contains data and diagnostic knowledge for logical processing of the data.
- » **Feature Intent Template.** “Automate automation” with a template-driven approach to creating and updating automations that allows you to build an automation once and scale it across the network.



Figure 2. Executable Runbook

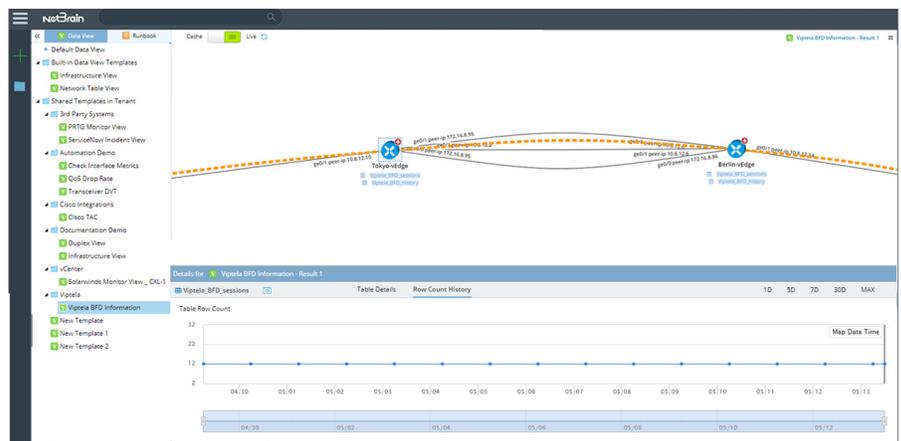


Figure 3. Data View Template

Intent-Based Automation

Your network is not just made of devices, but rather is made of thousands of intents that your mission-critical applications depend on. Intent-based automation (available in NetBrain 10.0) allows users to achieve more complex automations at scale. Intent-Based Automation decodes the DNA of each network device to verify and validate important network intents, guaranteeing security and performance outcomes and preventing network issues from impacting the business. Intents are validated through NetBrain’s Adaptive Monitoring functionality that kicks off

NetBrain's Decision Tree to trigger automated multi-threaded diagnostic automations. Network intents are easily visible on the Dynamic Map and allow side-by-side historical data comparison.

NetBrain Incident Collaboration and Portal

Network troubleshooting is a team sport. NetBrain incident empowers all the players on your team to collaborate in real-time over NetBrain data so that problems are solved faster. Share data and insights on NetBrain's native messaging interface or use Microsoft Teams integration to streamline communication, and get tickets resolved faster. As cloud adoption blurs the traditional lines within IT organizations, there are times when Network Operations needs to involve a member of another team in a ticket. NetBrain Incident Portal allows NetBrain users to securely share the dynamic map with non-users to ensure that all the needed resources are working to resolve network tickets and tasks as quickly as possible.

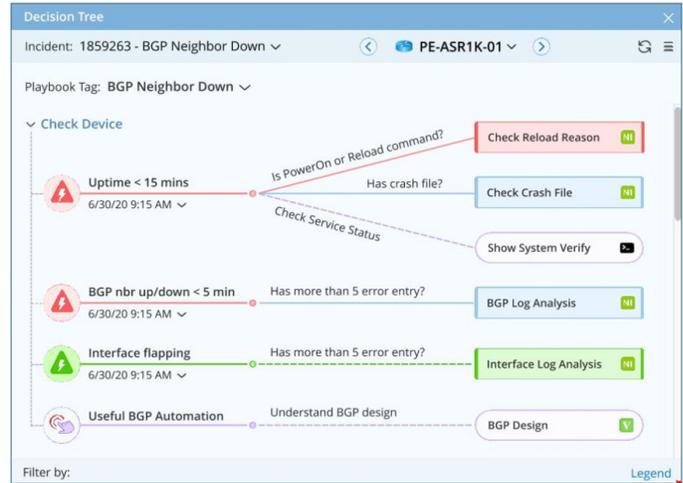


Figure 4. Decision Tree



Figure 5. Incident Portal

Enterprise-Grade Scalability and Performance

NetBrain's thin client user interface is supported by a highly scalable server architecture. NetBrain scales to automate network operations for the world's largest enterprise networks, across tens of thousands of network devices and hundreds of sites.

About NetBrain

Founded in 2004, NetBrain is the market leader for advanced network automation, providing IT Operations teams with dynamic visibility across their hybrid networks with low-code automation for key tasks across IT workflows. Today, more than 2,400 of the world's largest enterprises and managed service providers use NetBrain to automate network documentation, accelerate troubleshooting, and strengthen network security — all while integrating with a rich ecosystem of partners.