Deep Diagnosis

FROM FASTER ROOT CAUSE TO ACTION-READY AUTOMATION

Overview

NetBrain strengthens Deep Diagnosis by combining AI-driven analysis, workflow-embedded automation, and enhanced runbook intelligence to help teams move faster from detection to resolution without sacrificing control, governance, or operational safety.

Deep Diagnosis currently achieves a very high diagnostic success rate for traditional networks, over 98% based on internal benchmarking. (Validation benchmarks exclude; hybrid, cloud, and Kubernetes environments.)

What's New

AI-Driven Root Cause Analysis

Deep Diagnosis applies advanced analysis techniques to evaluate live telemetry, topology, and historical data to identify likely root causes of network issues. Instead of presenting raw alerts or disconnected symptoms, it delivers clear, explainable diagnostic insight that engineers can trust.

Runbook-Enhanced Diagnosis

NetBrain integrates Deep Diagnosis results with Runbook Companion capabilities, allowing teams to:

- Create runbook templates based on diagnostic findings
- Reference recommended investigative steps during troubleshooting
- Capture validated workflows for repeatable use

This enables engineers to formalize operational knowledge while maintaining control over runbook creation and refinement.

TAF-Triggered Diagnostic Automation

With enhancements to the Triggered Automation Framework (TAF), Deep Diagnosis can automatically initiate diagnostic workflows when specific conditions or events are detected.

- Diagnostic workflows are triggered consistently and repeatably
- Engineers receive validated results before deciding next steps
- Automation supports investigation, not blind execution

This ensures faster response without removing human oversight.
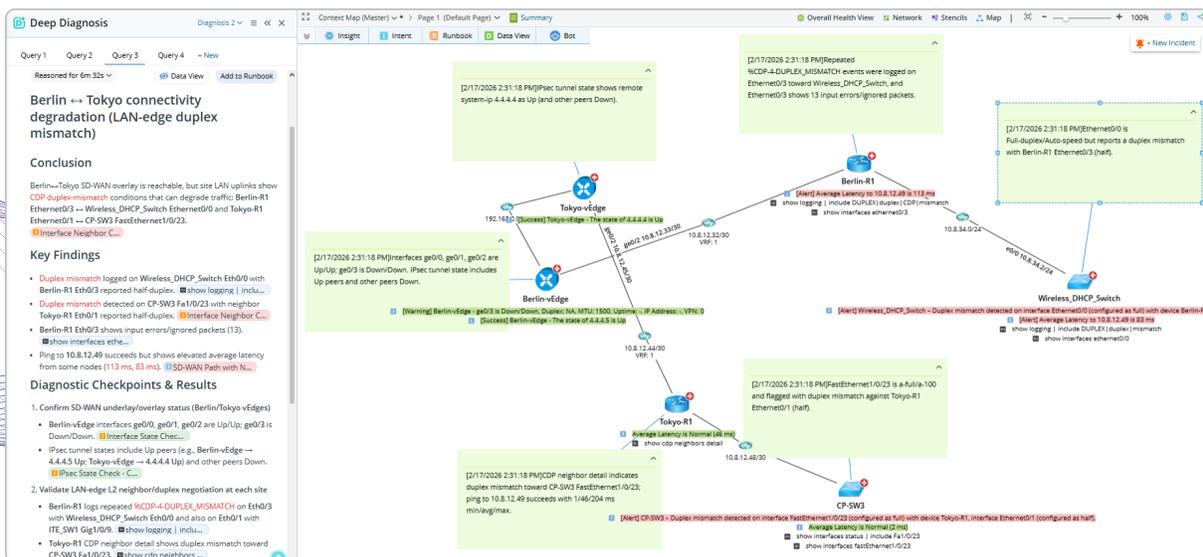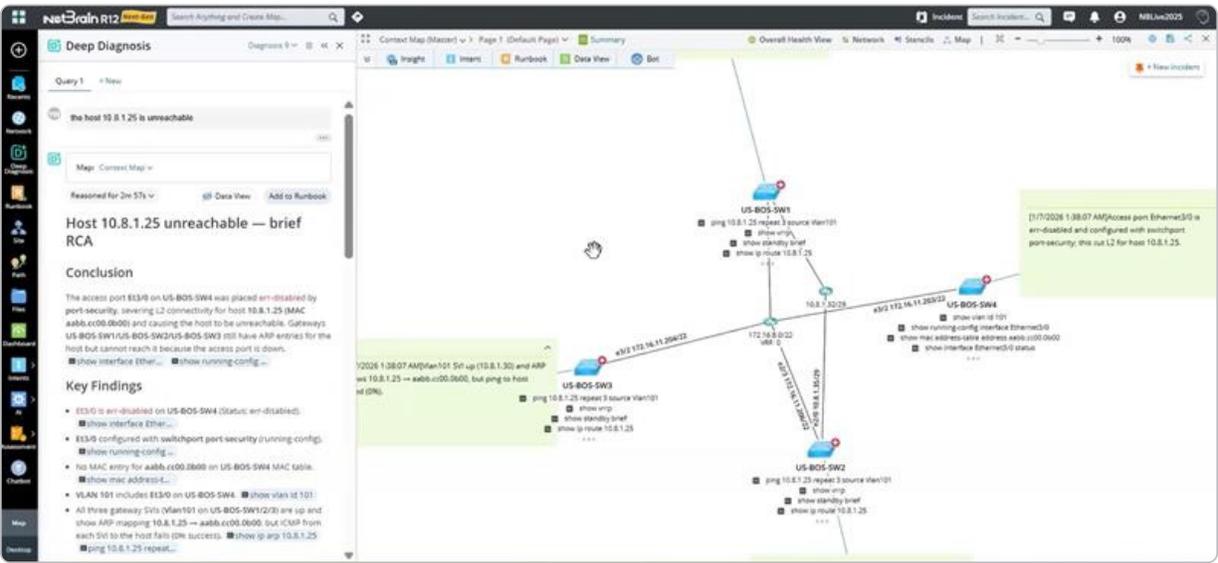
Workflow-Embedded Validation

Deep Diagnosis integrates directly into NetBrain workflows, enabling:

- Automated validation checks during troubleshooting
- Real-time confirmation of network state before and after actions
- Consistent diagnostic coverage across environments

This reduces guesswork and improves confidence during incident response.

Why It Matters

Faster, More Accurate Troubleshooting

By combining AI-driven insight with structured automation, Deep Diagnosis reduces time spent correlating data and identifying root causes, helping teams resolve issues faster and with greater confidence.

Improved Operational Consistency

Runbooks and TAF-based workflows ensure diagnostic steps are applied consistently across teams and environments, reducing variability and reliance on tribal knowledge.

Safer, Controlled Automation

Deep Diagnosis prepares and validates actions, but execution remains intentional and governed. Teams can review findings, approve changes, and maintain operational control at every step.

Supports Automation Maturity

Deep Diagnosis supports a natural progression toward greater automation maturity, allowing teams to start with insight and diagnostics today while laying the foundation for more advanced automation over time without over-promising or forcing change.

Key Takeaway

Deep Diagnosis in NetBrain transforms troubleshooting from a reactive, manual process into a repeatable, insight-driven workflow, helping teams understand problems faster, act with confidence, and operate more efficiently across modern infrastructure.

NetBrain