netnology



AI Ethernet Fabric Health Check Service

Overview

The AI Ethernet Fabric Health Check Service delivers vendor-neutral, expert analysis of the customer's 400/800GbE fabric (Cisco Nexus, NVIDIA Spectrum-X, HPE Juniper or SONiC) and its readiness for AI workloads. It assesses performance against AI traffic such as RoCEv2, identifies gaps and provides targeted recommendations for scalable, high-performance AI operations.

Discovery

- Confirm AI workloads, fabric scope, access and success criteria with the customer.
- Information Gathering
  - Network topology of the existing AI fabric environment.
  - Configuration and state from switches (Cisco NX-OS, Cumulus Linux, Junos OS Evolved or SONiC) and relevant telemetry outputs.
  - Policy and intent data from Cisco Nexus Dashboard, NVIDIA NetQ, Juniper Apstra or other automation and telemetry tools.

Recommendations

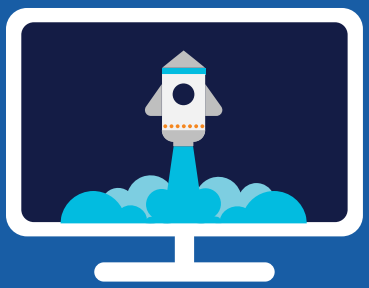
- Provide feedback and recommendations on:
  - Fabric architecture, 400/800GbE scale-out and rail design
  - Lossless QoS (PFC/ECN), congestion control and load balancing
  - Advanced features (RoCEv2, adaptive routing, telemetry, Ultra Ethernet readiness)
  - Integration with GPU servers, NICs, storage and front-end networks
- Identify areas of improvement and overall optimization of the AI fabric environment.

Deliverables

- Executive Summary Presentation
- AI Fabric Health Check Report
- Findings and Recommendations

Award-Winning SDx and Cloud Solution Provider

enterprisenetworking TOP 10 SDN SOLUTION PROVIDERS-2018 · SR 2019 Most Admired Companies of the Year · enterprisenetworking TOP 10 SDN CONSULTING/SERVICES COMPANIES - 2019 · 30 Most innovative companies to Watch CIO Bulletin 2020



About Netnology

Netnology brings a proven approach to building and managing application-rich complex software defined, cloud and full-stack observability environments leveraging years of industry experience working with large scale multi-vendor networks. We help enterprises and service providers reduce time from concept to value through our software and services.

© 2026 Netnology LLC and Affiliates | Confidential | www.netnology.io