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NVIDIA InfiniBand Fabric Health Check Service

Overview

The NVIDIA InfiniBand Fabric Health Check Service delivers expert analysis of the customer's existing Quantum InfiniBand fabric (Next Data Rate(NDR) or eXtended Data Rate (XDR) and its readiness to support AI workloads. It assesses fabric health and collective performance, identifies gaps or inefficiencies, 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 InfiniBand fabric.
  - ibdiagnet output, switch and adapter firmware levels, and link error counters.
  - Subnet manager configuration and telemetry data from NVIDIA UFM.

Recommendations

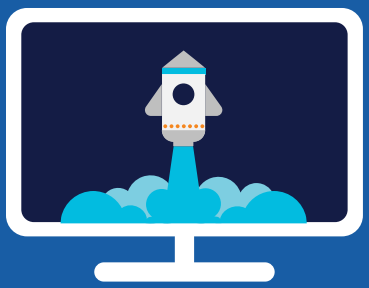
- Provide feedback and recommendations on:
  - Fat-tree topology, rail design and scalability for AI workloads
  - Subnet manager, routing engine, adaptive routing and congestion control
  - Advanced features (SHARP, partitions, UFM telemetry)
  - Integration with GPU servers, storage and front-end networks
- Identify areas of improvement and overall optimization of the InfiniBand fabric environment.

Deliverables

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

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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.

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