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Cisco AI-Optimized Fabric Health Check Service

Overview

The Cisco AI-Optimized Fabric Health Check Service is designed to deliver expert analysis of the customer's existing fabric environment and its readiness to support AI workloads. It assesses performance against AI traffic demands such as RoCEv2, identifies potential gaps or inefficiencies, and provides targeted recommendations to ensure the fabric is fully optimized 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 Optimized Fabric environment.
  - Configuration details from Nexus switches, fabric controllers, and relevant telemetry outputs.
  - Policy and orchestration data from Nexus Dashboard and supporting tools.
  - Observability coverage of the GPU servers (host and GPU metrics, dashboards, detectors), where Splunk Observability Cloud is in use.

Recommendations

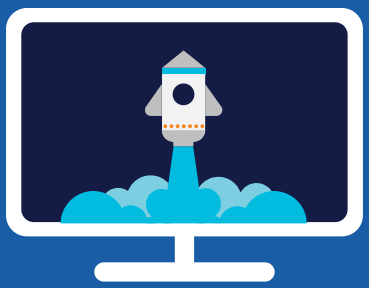
- Provide feedback and recommendations on:
  - Fabric architecture and scalability for AI workloads
  - Lossless QoS (PFC/ECN), congestion management and load balancing
  - Advanced features (RDMA/RoCEv2, Multi-site, Telemetry)
  - Integration with GPU servers, storage and front-end networks
- Identify areas of improvement and overall optimization of the AI-Optimized 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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