

Cisco Nexus Hyperfabric + VAST Data

Overview

Cisco Nexus Hyperfabric™ with VAST Data delivers a unified, cloud-managed fabric infrastructure platform designed for modern data-intensive applications. By combining high-performance networking with next-generation data storage, organizations can simplify operations, scale seamlessly, and unlock faster access to data without the complexity of traditional infrastructure.

Benefits

- **Faster time to market:** deployment time reduced from months to days with automated provisioning and lifecycle management of fabrics.
- **Optimized GPU utilization:** enhanced throughput and performance for AI-training and inference workloads.
- **End-to-end AI Factory option:** option for pre-integrated, modular, and scalable infrastructure supporting multitenant AI workloads.
- **Customer success:** proven deployments including Australia's first Cisco Secure AI Factory with NVIDIA and partnerships with SHARON AI and Cisco IT (Cisco-on-Cisco).



What it does

Cisco Nexus Hyperfabric provides a high-performance, automated networking architecture specifically designed to handle the massive data throughput required by large-scale AI clusters. VAST Data complements this by offering a scalable, unified storage platform that enables rapid access to vast datasets, ensuring that AI models are fed with the information they need without latency bottlenecks. Together, these technologies create a robust, integrated infrastructure stack that simplifies the deployment and management of AI workloads, allowing organizations to accelerate their AI training and inference capabilities.

Key features

- **Cloud-managed fabric Infrastructure:** automated lifecycle management including design, ordering, deployment, validation, and monitoring.
- **High-performance networking:** ultra-low latency, lossless backend fabric optimized for AI workloads with Cisco® Silicon One® and NVIDIA Spectrum-X Ethernet.

- **Validated solution:** NVIDIA Storage Ebox-certified and NVIDIA Enterprise Reference Architecture (ERA) and NVIDIA Cloud Partner (NCP) compliant.
- **Scalable storage:** VAST Data unified file and object architecture with exabyte-scale capacity and high throughput.
- **Simplified operations:** centralized control with assertion-based monitoring, proactive alerting, and cloud-managed Cisco switches.

Components

- **Cisco Hyperfabric switches:** cloud-managed AI networking with high throughput and low latency.
- HF6100-64ED (800G spine), HF6100-32D (storage leaf), HF6100-60L4D (management leaf).

Nexus Hyperfabric licenses

- **Cisco UCS® servers:** Cisco UCS C225 M8 Rack Servers (UCSC-C225M8N-EBOX).
- VAST Data Storage (VAST-DATA-SPLUS).
- Cisco Intersight®.

How to engage

Visit <https://hyperfabric.cisco.com> to run a demo. Contact a Cisco partner today.

Some products and features described are in development and offered on a when-and-if-available basis. Cisco reserves the right to change delivery timelines and will have no liability for any delays or failures to deliver.