



# Lenovo to Deliver Enterprise Al Compute for NetApp AlPod Through Collaboration with NetApp and NVIDIA

### **Enabling the AI infrastructure**

Artificial intelligence (AI) has transcended beyond a technological buzzword into a key driver of turning valuable data into actionable insights, delivering real business value and competitive advantage for customers. With the advent of ChatGPT in late 2022 and the ensuing development of large language models (LLMs), AI has gained traction within enterprises, enabling new use cases, applications, and workloads across many industries. AI has moved beyond just training LLMs in the cloud to become more hybrid in nature, driving the need for running private AI use cases leveraging on-prem AI infrastructure for enterprise customers. These private AI use cases require new converged infrastructure solutions targeted at enterprise customers to simplify and accelerate AI infrastructure implementations at scale for on-premises solutions. However, enterprise customers face the following types of challenges, which can limit on-prem AI deployments:

- Lack of data scientists who can build, deploy, and manage LLMs.
- Datacenter power and cooling limitations for enterprise customers typically are limited to 8 to 10KW per physical rack space that houses the IT. Typical LLMs/Generative AI (GenAI) utilizing GPUs consume in a single server over 10KW of power. This limits the utilization of datacenter real estate.
- Challenges with configuring the right Al solution deployments for customers who don't have the skilled resources to determine the amount of GPU accelerators, storage, and networking needed to support the training, retraining, and inference of their data for their Al deployment.

### Lenovo collaboration with NetApp and NVIDIA

Lenovo is focused on simplifying our customers' Al journey and providing comprehensive solutions to unleash the power of Al to drive intelligent transformation in every aspect of our lives and every industry – delivering Al for All. We do this by delivering customer-valued innovation and partnering with industry leaders – such as NetApp and NVIDIA – to bring you the right set of solutions for your enterprise Al deployments.

Lenovo is further expanding our strategic partnership with NetApp by delivering the world's most reliable and secure enterprise AI compute in the NetApp AIPod™ solution. NetApp AIPod is an integrated solution designed to simplify the planning, sizing, deployment, and management of tuning and inferencing enterprise AI models.

As announced on May 14, 2024, the Lenovo ThinkSystem SR675 V3 servers are foundational to this solution and deliver the powerful computing resources needed for accelerating the complex GenAl computations used in today's enterprise Al models.

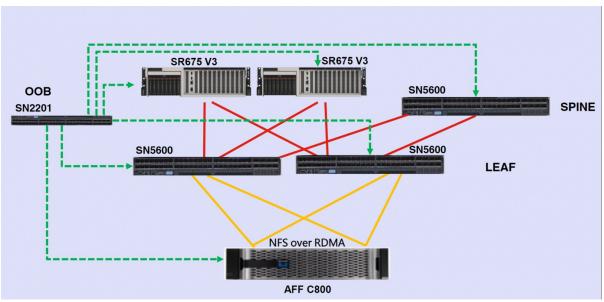


Figure 1. NetApp AlPod solution featuring ThinkSystem SR675 V3 servers

Al has emerged as one of the most transformative technologies in the industry, with the potential to unlock faster and better data insights to help customers transform their business operations. In the past few years, the industry has been focused on developing and honing Al models in the cloud, leveraging massive investments in technology infrastructure. As these Al models mature in the cloud, the logical evolution is to bring them into private Al deployments so enterprise customers can turn their own business data into valuable business insights and actions.

Given the continued growth in data and the large datasets common in most enterprise deployments, data gravity and data privacy trends have driven a higher demand for an on-premises and hybrid approach to AI. This hybrid AI approach enables customers to use their own data when running AI models to deliver the optimal, unique, and tailored results for their business operations. The same Lenovo infrastructure and technology that helped mature and hone these AI models in the cloud is the foundation for our private AI enterprise infrastructure deployments. With our comprehensive AI portfolio and services, such as AI Discover Center of Excellence and AI Innovators, Lenovo has the proven AI expertise, solutions, services, and support to turn your organization's data into actionable insights.

Customer data is the most valuable part of an organization's AI strategy, and our partner NetApp is the storage platform for most enterprise customers' unstructured data. The Lenovo strategy to bring AI to customers' data makes NetApp the ideal partner for AI solutions. We are expanding on our five-year partnership to deliver new innovation and efficiency for enterprise customers' AI deployment.

# Lenovo integrated AlPod solution

The NetApp AIPod solution is a new validated, integrated solution composed of Lenovo ThinkSystem SR675 V3 servers, NetApp C800 high performance storage, NVIDIA L40S GPUs, the NVIDIA Spectrum-X networking platform, and the NVIDIA AI Enterprise software platform. This is an ideal solution to host AI workloads, including the targeted workloads of training and inferencing for AIPod. Lenovo works closely with NVIDIA to deploy NVIDIA GPUs and DPUs and NVIDIA AI Enterprise, which includes NVIDIA NIM and other microservices, throughout the Lenovo AI infrastructure portfolio. Our collaboration with NetApp and NVIDIA enables us to deliver the first integrated AI solution in the market with retrieval augmented generation (RAG) to support chatbot, knowledge management, and object recognition use cases with critical benefits, including:

- **Data Management Simplicity**: The NetApp AlPod with Lenovo addresses the complexities of data management by providing tools and features that simplify infrastructure management, enhance automation, and ensure scalability and data protection.
- High Performance: Combining the raw power of Lenovo ThinkSystem servers with advanced NVIDIA L40S GPUs and NVIDIA Spectrum-X networking, the AIPod with Lenovo for NVIDIA OVX delivers the computational strength required for the most intensive AI tasks, supported by the unparalleled speed and efficiency of NetApp storage systems.
- Integrated Solution: The AIPod with Lenovo for NVIDIA OVX integrates NVIDIA AI Enterprise to streamline the deployment and scaling of AI workloads, while NVIDIA NeMo allows organizations to customize, build, and deploy AI models with ease, leveraging pre-trained models for quicker deployment and NVIDIA TensorRT software for accelerating and optimizing inference performance.
- **Trusted Secure Data**: Security is a foundational element of the AlPod with Lenovo, ensuring that data is not only rapid and accessible but also rigorously protected.



Figure 2. Lenovo ThinkSystem SR675 V3 server

Lenovo is proud to collaborate with NetApp and NVIDIA to deliver a simplified, efficient, and robust solution that helps customers operationalize their enterprise AI workloads to transform their business. This solution is available from the network of Lenovo, NetApp, and NVIDIA channel partners.

We look forward to continuing to deliver Smarter AI for AII for our customers!

#### **Learn More**

To learn more about the Lenovo, NetApp and NVIDIA collaboration on NetApp AlPod, see the following:

- Lenovo press release
- NetApp Verified Architecture Design Guide: NetApp AlPod with Lenovo for NVIDIA OVX

You can also contact your Lenovo sales representative or authorized channel partner to learn about this and other Lenovo Data Management offerings.

## Seller training courses

The following sales training courses are offered for employees and partners (login required). Courses are listed in date order.

#### 1. NetApp AlPod With Lenovo For NVIDIA OVX Solution

2025-03-05 | 15 minutes | Employees and Partners

Explore the NetApp AlPod with Lenovo for NVIDIA OVX, a solution designed for Al workloads. Learn about its pre-configured, converged infrastructure that integrates compute, network, storage, and NVIDIA GPUs and DPUs. Understand how to deploy and manage this platform with NVIDIA Al Enterprise to optimize Al operations.

After completing this training, you will be able to:

- Describe the NetApp AIPod with Lenovo for NVIDIA OVX solution
- · Identify solution hardware and software components
- Describe the primary use cases for the solution

Tags: Nvidia

Published: 2025-03-05 Length: 15 minutes

#### Start the training:

Employee link: Grow@Lenovo

Partner link: Lenovo 360 Learning Center

Course code: DAIO106

#### 2. VTT AI: The NetApp AIPod with Lenovo for NVIDIA OVX

2024-08-13 | 38 minutes | Employees and Partners

Al, for some organizations, is out of reach, due to cost, integration complexity, and time to deployment. Previously, organizations relied on frequently retraining their LLMs with the latest data, a costly and time-consuming process. The NetApp AlPod with Lenovo for NVIDIA OVX combines NVIDIA-Certified OVX Lenovo ThinkSystem SR675 V3 servers with validated NetApp storage to create a converged infrastructure specifically designed for Al workloads. Using this solution, customers will be able to conduct Al RAG and inferencing operations for use cases like chatbots, knowledge management, and object recognition.

Topics covered in this VTT session include:

- •Where Lenovo fits in the solution
- •NetApp AlPod with Lenovo for NVIDIA OVX Solution Overview
- •Challenges/pain points that this solution solves for enterprises deploying Al
- •Solution value/benefits of the combined NetApp, Lenovo, and NVIDIA OVX-Certified Solution

Tags: Artificial Intelligence (AI), Nvidia, Sales, Technical Sales, ThinkSystem

Published: 2024-08-13 Length: 38 minutes

#### Start the training:

Employee link: Grow@Lenovo

Partner link: Lenovo 360 Learning Center

Course code: DVAI206

# Related product families

Product families related to this document are the following:

- Artificial Intelligence
- ThinkSystem SR675 V3 Server

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