NetApp

NETAPP AND NVIDIA:
POWERING THE FUTURE OF AI TOGETHER

For organizations seeking to harness AI, NetApp and NVIDIA deliver proven, validated infrastructure solutions that combine NVIDIA's industry-leading accelerated computing with NetApp's intelligent data management.

NVIDIA.

The challenge

Organizations worldwide are racing to adopt AI to drive innovation, increase productivity, and deliver better customer experiences. However, the journey is fraught with obstacles that have led to an 85% failure rate for AI projects. Complex integrations across disparate components can create technical bottlenecks that slow implementation. Siloed infrastructures prevent effective collaboration and resource sharing, leading to duplicative efforts and wasted investment. Data management issues—including access, security, and governance—further complicate AI initiatives as organizations struggle to connect their proprietary data to powerful models. The talent shortage in specialized AI roles compounds these challenges, making it difficult for organizations to build and maintain the expertise needed for successful AI deployment.

As a result, many businesses find themselves stuck in endless proof-of-concept cycles without achieving production-scale AI that delivers measurable business value.

A recent IDC survey indicates that the most pressing concern for 56.6% of organizations adopting AI is enhancing data security and privacy, particularly as AI agents require privileged access to sensitive systems and data. The growing importance of AI agents is undeniable, with 96% of executives anticipating increased usage in the next 3 years, and 78% recognizing the need to design digital ecosystems that accommodate both AI agents and humans. This evolving landscape demands infrastructure solutions that not only solve today's challenges but also provide a foundation for tomorrow's agentic AI innovations.

Accelerate your AI journey

NetApp and NVIDIA have forged a powerful relationship that addresses these challenges head-on. After 6 years of partnership and over 600 joint customer implementations, this collaboration delivers validated architectures that eliminate guesswork and speed AI initiatives. Together, NetApp's intelligent data infrastructure and NVIDIA's accelerated computing create a complete foundation for enterprise AI that spans from edge to core to cloud.

At the heart of this joint approach is a unified hybrid cloud data architecture that breaks down data silos with an AI-ready data pipeline. NetApp's industry-leading cloud integration connects to AWS, Azure, and Google Cloud across 118 regions in over 30 countries, enabling consistent data management experiences regardless of where data resides. The architecture supports file, block, and object protocols across hybrid environments, eliminating painful data migrations and storage silos through a unified namespace. NetApp® SnapMirror® replication and FlexClone® technology allow organizations to move data efficiently between environments to burst AI workloads and speed up AI development cycles.

Meet all your AI workload needs

This data foundation is complemented by NVIDIA's AI infrastructure, which delivers validated performance at scale for every stage of the AI lifecycle. Organizations can deploy NVIDIA DGX SuperPOD with NetApp ONTAP® storage for high-performance AI training workloads, or they can fast-track generative AI, inferencing, and retrieval-augmented generation (RAG) use cases with the NetApp AIPod™ solution.

Simplify AI development and deployment

All joint offerings are powered by an intelligent AI software stack that makes developing and deploying production-ready AI straightforward and efficient. NVIDIA NIM microservices and NVIDIA NeMo Framework in NVIDIA AI Enterprise accelerate application development while enabling RAG to securely connect foundation models to proprietary enterprise data. This software foundation supports powerful AI agents that can make decisions, plan, and adapt to accomplish specific goals with minimal human input, ushering in the era of agentic AI.

KEY BENEFITS

- **Seamless data management.** AI workflows require smooth data flow and rapid access to datasets. With native hybrid cloud integration, effortlessly replicate data across environments with consistent data management.

- **Enterprise-grade security.** Secure your AI investments with enterprise-grade security, reducing risk through automated controls while maintaining compliance.

- **AI-ready data pipeline.** With unified access to file, block, and object data, your existing data becomes AI-ready, saving time and preserving governance.

- **24/7/365 uptime.** Critical AI services need continual infrastructure. Ensure operational excellence with monitoring for consistent performance.

- **Multitenant intelligence.** Transform AI infrastructure to support multiple teams, maintaining consistency, utilization, and security in shared environments.

Keep your data secure

Security and control are fundamental aspects of the NetApp and NVIDIA solution, protecting AI assets throughout the entire lifecycle. The architecture implements Zero Trust security with continuous verification of all access requests and enables secure multitenancy for shared resource pools in AI factories and centers of excellence. Granular access controls, authentication mechanisms, and audit capabilities provide the governance framework necessary for enterprise AI adoption.

Get started today

For organizations seeking to harness AI, NetApp and NVIDIA deliver proven, validated infrastructure solutions that combine NVIDIA's industry-leading accelerated computing with NetApp's intelligent data management. Whether you're starting your AI journey or scaling enterprisewide deployments, our experts can help you build the right foundation for success.

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