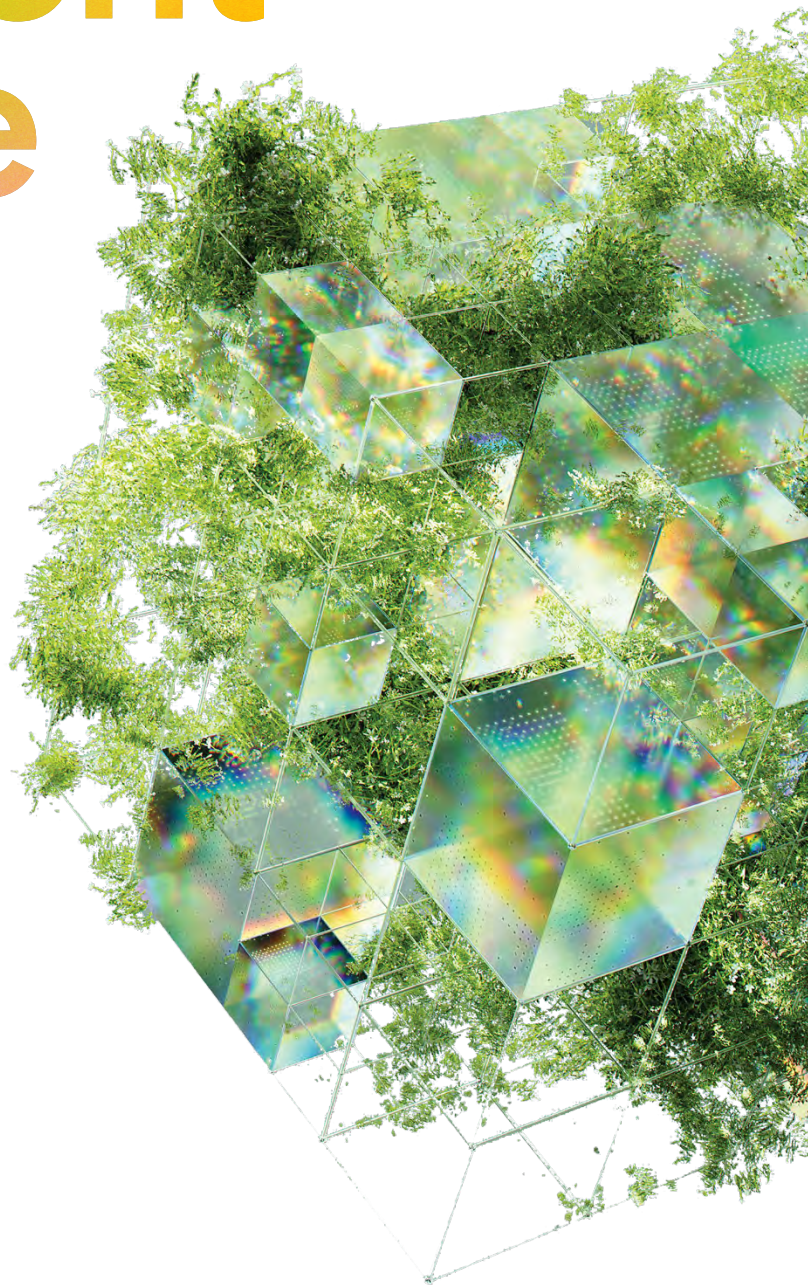Google Cloud   NetApp

Intelligent storage for the AI era

Simplify, scale, and secure your enterprise data with Google Cloud NetApp Volumes

The evolution of high-performance, enterprise-grade storage

Competitive advantage today hinges on turning enterprise data into insight—faster and more intelligently than ever before.

It's not just about moving to the cloud or collecting more data. It's about connecting the dots: transforming siloed, distributed information into a foundation for action in real time.

The rise of generative AI is accelerating this shift. Yet for many, realizing the potential of AI still feels out of reach because their infrastructure isn't ready. Data is fragmented across silos. Storage solutions can't keep up with evolving performance needs. And AI pipelines stall when they can't connect the right data, at the right moment, in the right way.

The solution isn't more tools. It's intelligent infrastructure—designed to support high-performance workloads and make data accessible, secure, and ready for innovation.

This is where Google Cloud and NetApp ONTAP come in.

"For many organizations, the cloud is the fastest and simplest path to using AI to uncover data-driven insights. Google Cloud NetApp Volumes is accelerating generative AI data pipelines by seamlessly integrating the latest AI innovations with the robust data management capabilities of NetApp ONTAP, helping customers meet the demands of the modern, high-performance applications and datasets that drive meaningful business outcomes."

Pravjit Tiwana
Senior Vice President and General Manager
Cloud Storage at NetApp

Intelligent infrastructure starts with smarter storage

Traditional storage wasn't built for the demands of today's enterprises: petabyte-scale datasets, real-time decision-making, hybrid environments, and increasingly complex compliance needs.

Intelligent storage recognizes the growing demand for hybrid architectures and real-time responsiveness. It supports modern enterprise workloads—generative AI, advanced analytics, EDA (electronic design automation) simulations, and containerized applications—without forcing organizations to overhaul systems or compromise on performance.

Google Cloud NetApp Volumes is purpose-built to meet these demands. It combines the power of Google Cloud with industry-leading NetApp® ONTAP® data management software and storage management technology.

Extend and optimize enterprise workloads
Migrate, deploy, and manage data and applications in Google Cloud seamlessly, without refactoring code or redesigning processes. Simplify cloud adoption with enterprise-grade NFS (v3 and 4.1), SMB (2.1, 3.0, and 3.1.1), iSCSI, and multiprotocol support.

Get simplified, automated storage
Built into the Google Cloud ecosystem through a managed service that facilitates automated operations, optimizes capacity, and avoids both overprovisioning and cloud waste. Easily manage your storage using the Google Cloud console, gcloud, Terraform, or APIs.

Maintain business continuity with enterprise-grade data protection
Intelligently protect critical data and maintain optimum application availability while supporting business continuity for all workloads. Secure, granular role-based access control with identity access management and audit logs of administrative actions provides peace of mind.

Fully managed and natively integrated into the Google Cloud ecosystem, Google Cloud NetApp Volumes delivers the performance and control of enterprise-grade file and block storage, with the simplicity and flexibility of the cloud. It's a foundation for agility, scalability, and innovation, at the speed that business now requires.

Intelligent storage for the AI era

Less complexity and more performance: Data without boundaries

Storage is no longer just infrastructure; it's a strategic asset. In a world driven by AI, intelligent automation, and the demand for real-time insights, being able to manage and mobilize data determines if you can compete. The ability to access, protect, and activate that data—across environments, without latency or limits—has become an imperative.

Google Cloud NetApp Volumes brings structure to your unstructured strategy. It eliminates silos, enabling consistent data operations whether you're managing workloads in the cloud, on premises, or both. It simplifies storage operations with deep integration into Google Cloud tooling. And it reduces costs through intelligent features like auto tiering and usage-based scaling.

Built to meet your most demanding workload needs

Whether you're managing petabytes of design data, training domain-specific large language models (LLMs), or running traditional applications like SAP or Windows file shares, your storage infrastructure must be able to scale without compromise.

Google Cloud NetApp Volumes supports performance at scale, including:

- Up to 3PiB in a single volume, with volume provisioning in seconds
- Throughput up to 30GiB/s with Premium and Extreme service levels
- Independent scaling of performance and capacity with the Flex service level
- Global reach across Google Cloud regions
- Manage Compliance with support for Google Cloud Assured Workloads

But what sets it apart isn't just technical muscle. It's the ability to unlock value from your existing investments. With Google Cloud NetApp Volumes, you can replicate, snapshot, clone, and protect enterprise data across cloud and on-premises environments, enabling true hybrid flexibility.

Intelligent storage for the AI era

Innovate faster and smarter with GenAI

In AI, relevance matters as much as scale. Public datasets and foundation models provide breadth, but it's your proprietary data that delivers differentiation.

Google Cloud NetApp Volumes empowers you to securely integrate all your data into generative AI workflows, without duplicate storage or rearchitected pipelines. Through integration with AI Applications, enterprises can build and scale retrieval-augmented generation (RAG) applications that support the delivery of well grounded responses based on contextual data.

> **❞**
>
> Simplified access to AI is a democratizing force enabling organizations to leverage their most critical asset—data—for a competitive edge. Organizations can leverage their NetApp ONTAP on-premises data and hybrid cloud environments. By combining the capabilities of Google Cloud's Vertex AI platform with Google Cloud NetApp Volumes, we're delivering a powerful solution to help customers accelerate digital transformation and position themselves for long-term success."
>
> **Sameet Agarwal,** Vice President and General Manager, Google Cloud Storage

With the NetApp Volumes and the Google Cloud Vertex AI platform, you can implement RAG operations faster and more easily, while enabling secure, consistent, and automated workflows that connect data stored in Google Cloud NetApp Volumes with Google Cloud AI Applications. Build secure, containerized applications—like custom chatbots—that draw on proprietary datasets to generate highly specific, business-relevant results, all with automation and repeatability, and without specialized AI engineering skills.

From possibility to production: Four mission-critical use cases

Enterprise leaders are clear on the opportunity: Generative AI, real-time analytics, and hybrid cloud flexibility can unlock new value from their data. But getting from vision to execution requires infrastructure that makes complex workloads feel simple and data truly actionable.

This is where Google Cloud NetApp Volumes delivers.

Whether you're modernizing legacy apps or building new ones powered by AI, the platform enables a wide range of critical use cases—without rearchitecting, overprovisioning, or compromising on control.

Use case

Augment generative AI with your data

One of the most urgent needs in enterprise AI is connecting LLMs to relevant, secure, proprietary data. With Google Cloud NetApp Volumes, enterprises can securely extend their private data into AI pipelines, generating insights with the nuance and relevance that only proprietary knowledge can provide.

The NetApp Volumes' data connector lets you take advantage of your private data stored in NetApp Volumes using the foundation models provided by Google Cloud's Vertex AI machine-learning platform. This capability redefines how enterprises harness the power of AI and accelerates agentic AI workflows with unprecedented efficiency and agility.

The data connector pulls from live enterprise data, without writing custom pipelines or relying on scarce AI engineering talent. The Google Cloud NetApp Volumes data connector facilitates unimpeded access to enterprise data across hybrid environments thereby anchoring AI models in an

organization's unique informational assets. This direct connectivity ensures the delivery of pertinent, data-driven responses, which is critical for the success of AI initiatives.

Use case

Running databases on Google Cloud

Google Cloud NetApp Volumes simplifies the migration and operation of database environments by delivering high-throughput storage that doesn't require code rewrites or infrastructure reconfiguration.

Move higher-quality deployments in less time while tapping fewer resources and lowering delivery risks. Enterprises can maintain consistency and performance across cloud and on-premises components, enabling availability and auditability while unlocking new levels of agility. File services provide multiprotocol support, dynamic performance, high availability, and storage optimization that delivers substantial cost savings.

Google Cloud   ■ **NetApp**

Streamline VMware migration

Google Cloud NetApp Volumes enables direct integration with Google Cloud VMware Engine so you can move VMware workloads to the cloud with simplicity and cost-effectiveness.

Enterprises can extend or lift-and-shift VMware apps into the cloud, using NetApp Volumes as a high-performance datastore—no replatforming required. Data protection features like Snapshot technology and cross-region replication remain intact, maintaining business continuity. You can scale storage and compute independently, streamline operations without affecting node resources, and safeguard your mission-critical Linux, Windows, VMware, and SAP workloads.
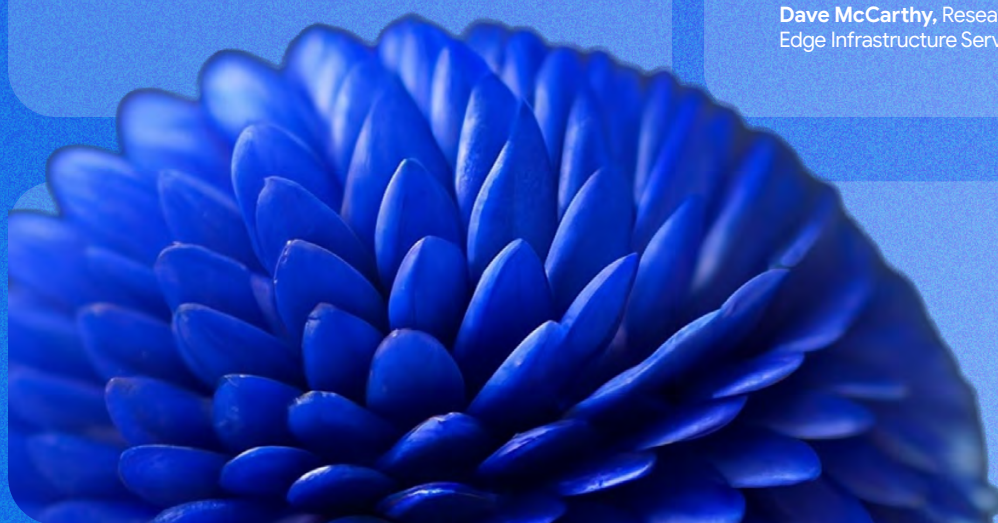

Simplify Windows management

Reduce the complexity of migrating Windows workloads and deploy to Google Cloud in minutes.

With support for NFS, SMB, iSCSI, and multiprotocol access, Google Cloud NetApp Volumes enables shared file services for Windows environments across hybrid and multicloud landscapes. This means teams can centralize access, standardize policies, and scale file and block storage alongside apps and users globally, without duplicating tools or introducing complexity.

"There's a trend to migrate more complex workloads that require enterprise-level management across on-prem, hybrid cloud, and multicloud environments. Partnerships like NetApp's and Google Cloud's are attractive to companies that want to leverage their existing technology and knowledge investments, while expanding workload capabilities with innovative cloud services."

Dave McCarthy, Research Vice President, Cloud and Edge Infrastructure Services, IDC
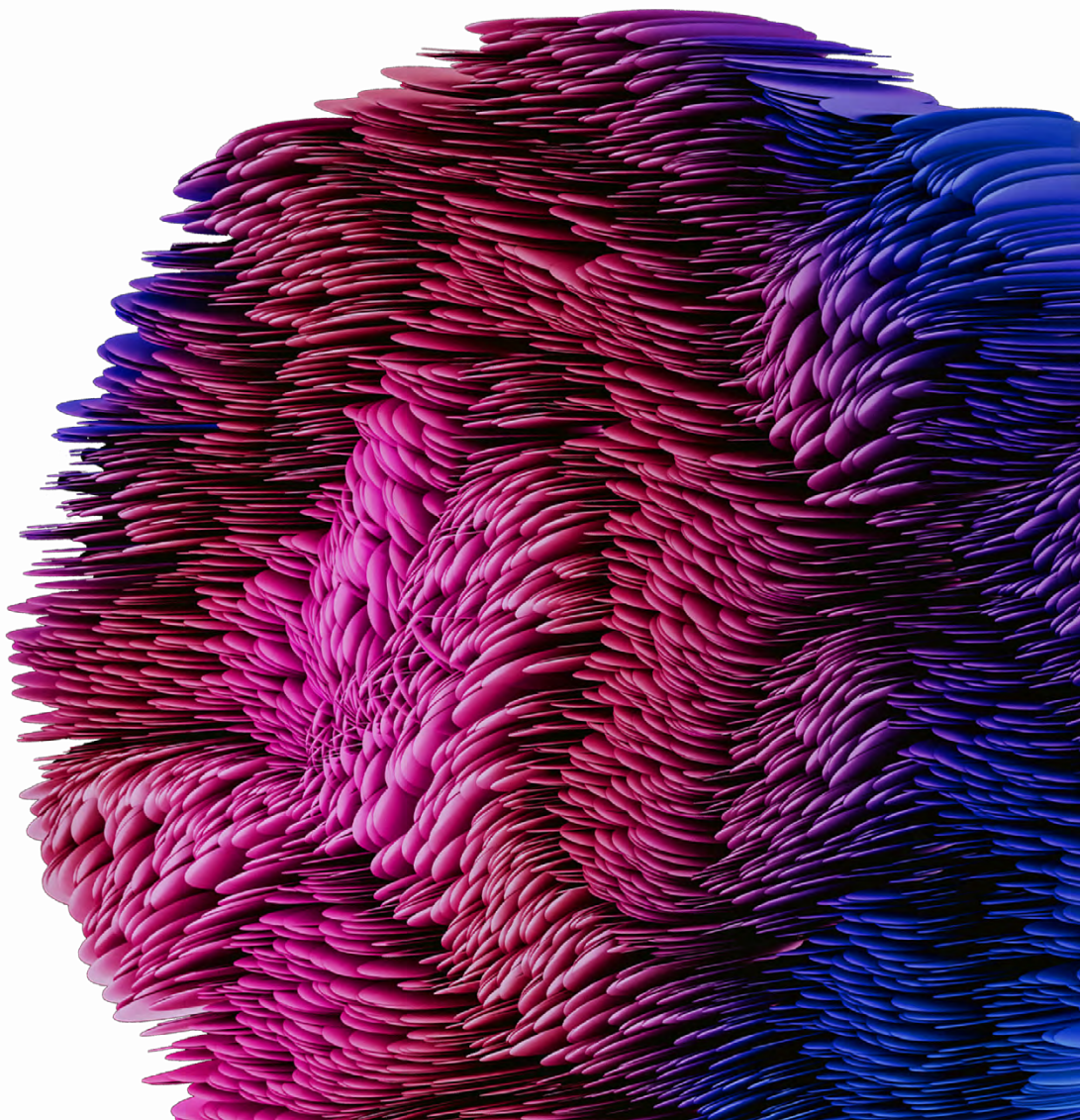

From infrastructure to innovation

Enterprises don't adopt infrastructure for its own sake. They invest in outcomes: faster time to insight, better customer experiences, and greater organizational agility.

Google Cloud NetApp Volumes helps you:

- Accelerate the move to AI-driven decision making
- Scale complex, data-intensive applications without rearchitecting
- Protect sensitive workloads with built-in capabilities for enterprise-grade security and business continuity with cross-region replication
- Reduce cloud waste and overprovisioning
- Future-proof your data foundation for hybrid and multicloud environments

Together, Google Cloud and NetApp are helping enterprises move beyond storage to a new model of intelligent data infrastructure that drives greater agility and innovation at scale.

Intelligent storage for the AI era

Google Cloud NetApp Volumes: Where power meets simplicity

In the new era of intelligent enterprise, storage isn't just a system. It's a strategic enabler.

Whether you're optimizing legacy workloads, building AI-native applications, or simply looking to consolidate and simplify your cloud storage, Google Cloud NetApp Volumes provides the foundation to do it faster, smarter, and more securely.

> "
> We always want things better, faster, cheaper. Normally, we don't land all three, but with Google Cloud NetApp Volumes, we were able to. Our recovery times are cut in about half, SQL backups and restore are four times faster. Our dev refresh went from a week to a weekend."
>
> **Matt Bruno,** Associate Director of Engineering at Wayfair

Discover how Google Cloud NetApp Volumes makes it easier to migrate and run your business-critical enterprise applications and data, add new life to your AI models, and accelerate next-generation applications.

Explore more:
> Product overview
> Documentation & trial
> Talk to a specialist

Google Cloud   NetApp