

Solution Brief

NetApp Cloud-Connected Storage for E-Series

Enable high-performance computing next to the cloud

Key Business Benefits

Maintain Ownership of Your Data

- Get all the benefits of the cloud without sacrificing control of your data.

Control Costs

- Balance capital expenditures and operational expenditures by embracing the economies of a cloud solution.

Increase Agility

- Respond quickly to changing business requirements with the ability to rapidly deploy infrastructure.
- Adapt and scale on demand, leveraging key features across multiple clouds.

Get the Exact Solution That Your Business Needs

- Leverage our proven implementations and integrations for a variety of workloads and use cases.

The Challenge

Modern workloads such as artificial intelligence (AI), video intelligence, high-performance computing, and analytics require innovative IT solutions. As datasets continue to expand, challenges around agility, security, cost efficiency, and data movement become even more complex. Companies of all sizes struggle to reconcile data management across a growing footprint with limited network capabilities, aggressive timelines, strict governance policies, and shrinking budgets. How can your engineers have access to the latest technology to drive innovation without your having to buy massive compute farms that are required only one or two months each year?

The Solution

With a cloud architecture that is built on NetApp® E-Series, you can leverage cloud-based compute resources to drive operational excellence and to accelerate innovation. NetApp Cloud-Connected Storage for E-Series gives you a proven, rock-solid storage infrastructure that's next to the cloud in an Equinix data center for superior cloud capabilities—without losing control of your data.

In this new solution, a NetApp E-Series system connects to Amazon Web Services (AWS) and Azure compute through a dedicated network connection in an Equinix data center. Given the physical proximity of the storage and the data to the hyperscaler, you can access a high-bandwidth Ethernet connection to the cloud. You're not locked in to any one vendor, so you can switch cloud providers at any time and avoid costly data migrations.

Maintain Ownership of Your Data

When you control your storage, you can meet the strictest possible data compliance, privacy, and sovereignty requirements because you know where your data lives at all times. Preserve end-to-end ownership of your data by hosting it in a cloud-connected data center. Maintain data governance by retaining your cluster and storage footprint on-premises. Data assurance (ANSI standard T10 PI) protects against silent data corruption. And with six 9's of availability, you can achieve compliance standards in even the strictest industries.

Control Costs

Deploy temporary cloud compute and network resources while limiting cloud egress expenses by keeping data on the premises. NetApp Cloud-Connected Storage for E-Series eliminates time-consuming, costly data migrations by centralizing your data in an Equinix cloud-connected data center outside of each individual cloud provider. You have a single storage environment simultaneously connected to multiple clouds. You can turn off connectivity to one cloud and spin up connectivity to another cloud in minutes—without having to move your data.

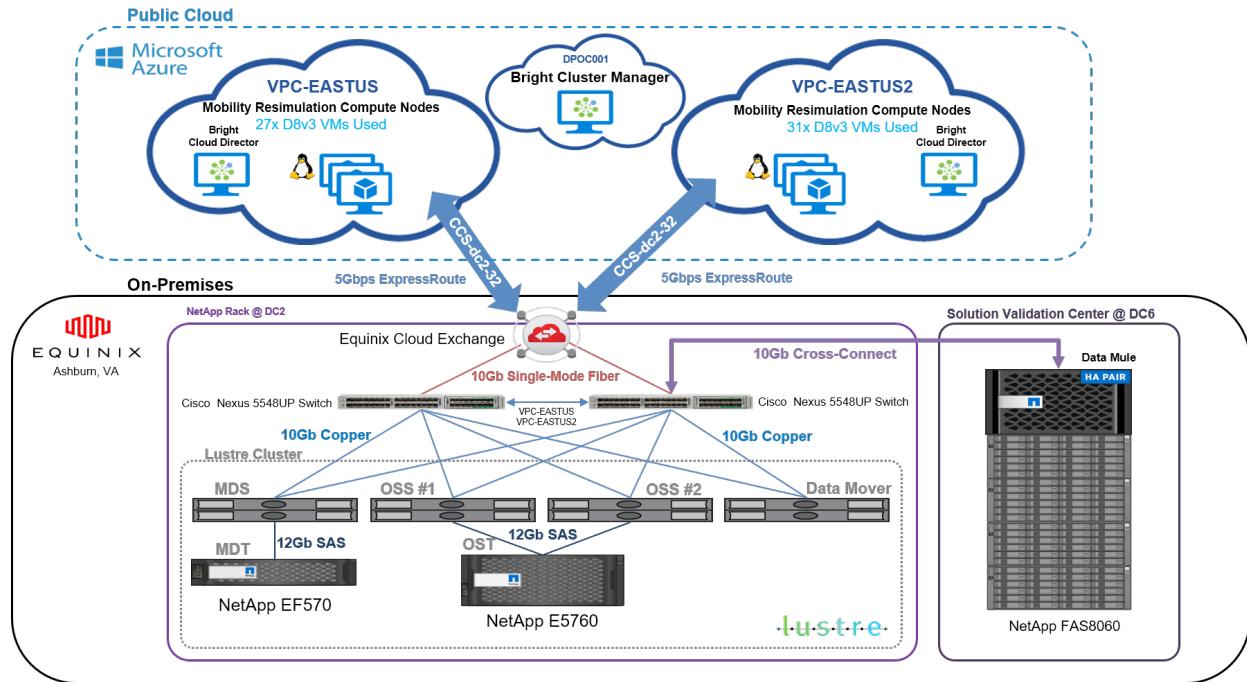


Figure 1) Architecture overview.

Increase Agility

Instantly deploy cloud compute and network resources and meet aggressive SLAs by automating processes. Scale linearly to accommodate your shifting business needs. Drive best-in-class capabilities and competitive costs between multiple clouds. Gain the agility of the cloud in a pay-for-use model by deploying compute resources on demand and by disabling them when you don't need them. This model is optimal for bursting when your business needs demand it. Data is seamlessly and securely moved across regions, data centers, campuses, and the cloud, so you can dynamically choose the solution that best meets your business requirements.

Get the Exact Solution That Your Business Needs

Leverage industry-leading technologies from NetApp, Lustre, Bright Computing, and more with validated integrations and implementations for various use cases:

- **High-performance computing.** Increase throughput, reduce latency, and enable cloud integration while maintaining price-performance leadership and providing six nines of reliability.

- **AI/ML** Contain costs by analyzing your most important data next to the cloud while taking advantage of the latest technologies that the cloud has to offer.
- **Video.** Reduce the cost of video analytics and long-term storage with NetApp Cloud-Connected Storage for E-Series.
- **Backup and recovery.** Back up next to the cloud for superior flexibility and recovery options.

Leverage the cloud for compute resources without changing your existing on-premises processes or procedures. Contact us today to schedule a proof of concept for your use case.

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com. #DataDriven