

Dell PowerStore with Nutanix Cloud Platform

Enterprise-grade storage performance for Nutanix environments

Overview

As enterprise workload demands grow and organizations evaluate new hypervisor strategies, Nutanix AHV, a key component of Nutanix Cloud Infrastructure (NCI), has emerged as a compelling platform for modern private cloud environments. But operational simplicity alone isn't enough - organizations also need enterprise-grade storage performance, advanced data services, and the flexibility to scale storage independently of compute. Dell PowerStore addresses this need. As Dell's flagship all-flash storage platform, PowerStore pairs enterprise all-flash storage with NCI on a disaggregated architecture - separating compute and storage into independently scalable layers while maintaining the unified Prism management experience Nutanix customers expect.

VM storage operations are handled directly within the unified management platform Nutanix Prism - each virtual disk maps to dedicated backing volumes on PowerStore, enabling granular per-VM policy controls. PowerStore delivers the underlying storage services automatically, without requiring administrators to access a separate management console. This solution is deployed through Dell Private Cloud on Dell PowerEdge servers, delivering a validated, continuously managed infrastructure across compute, storage, and networking.



Dell PowerStore brings NVMe-based all-flash performance, independent scalability, and always-on data efficiency to Nutanix NCI - with transparent integration through the familiar Prism management experience.



Scale Independently

Expand compute or storage on separate tracks, down to a single drive at a time, so infrastructure investments match actual workload demand without forced over-provisioning.



Consistent Performance

Deliver low-latency, all-flash throughput for mission-critical applications on dedicated storage that stays predictable at scale without consuming compute resources for data services.



Simplified Operations

Provision and manage VM storage directly in Prism, no tool-switching, no new consoles, with each virtual disk mapped to dedicated PowerStore volumes for granular per-VM policy control.

Protect Data with Confidence

- **Metro synchronous** — Zero RPO / Zero RTO automatic failover for mission-critical workloads
- **Synchronous** — Zero RPO with second-site acknowledgment; easy failover/failback
- **Asynchronous** — Flexible RPO options for VM protection across clusters
- **Remote backups** — Long-term retention with image-based backups, replication to DR sites, and cloud archival

Enterprise Security Built In

PowerStore protects data at every layer:

- Data at Rest Encryption (D@RE) with key rotation
- Self-encrypting drives with FIPS 140-2/3 compliance
- Immutable hardware root of trust
- Secure boot chain of trust

Combined with Nutanix's zero-trust security framework and micro-segmentation capabilities, this gives organizations defense-in-depth security across the full stack.

Unlock the Full Experience with Dell Private Cloud

Dell Private Cloud is the purpose-built model, delivering the complete PowerStore with Nutanix Cloud Platform experience on Dell PowerEdge servers. It automates AHV deployment through Foundation Central, orchestrates lifecycle management through Dell Automation Platform, and maintains continuously validated configurations across compute, storage, and networking - creating an infrastructure state that stays consistent from day one through every scaling event.

PowerStore connects via NVMe/TCP, delivering high-throughput, low-latency storage over standard IP-based networking. The result: appliance-like simplicity on disaggregated infrastructure, freeing IT teams from managing complex update cycles across separate hardware layers so they can focus on delivering business value.

Built for Your Most Important Workloads

SQL Server | Oracle | SAP HANA | App Modernization | Hybrid Cloud | Disaster Recovery

Designed for mission-critical databases requiring consistent NVMe throughput and zero-RPO protection. Supports enterprise application modernization for organizations refreshing from traditional architectures, with VM mobility across environments through Nutanix Move.

Preserve Existing Nutanix Investments

Organizations already running Nutanix retain their existing skills, tools, and operational processes. Existing NCI licenses can be leveraged for compute-only nodes connected to external storage, protecting software investments as infrastructure evolves. In mixed environments, a single instance of Prism Central manages both HCI and disaggregated deployments, while replication works seamlessly across both architecture types, preserving a unified operational and data protection experience.

Discover how Dell PowerStore for Nutanix Cloud Platform can help modernize your IT.

Click to visit our website for more information. [PowerStore](#) [Dell Private Cloud-Nutanix](#)



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