

Unlocking new levels of performance and scale with Nutanix Cloud Platform and Pure Storage

Nutanix has long led the industry for hyperconverged infrastructure (HCI) by leveraging virtualized workloads with distributed enterprise storage across nodes in a cluster.

For storage-intense workloads, today's enterprise organizations require exceptional flexibility and agility in how they leverage and finance virtualization. Pure Storage and Nutanix have co-engineered a solution that now enables the [Nutanix Cloud Platform](#) (NCP) solution, including [Nutanix AHV](#) hypervisor, to address these workloads by extending its storage provisioning to Pure Storage FlashArray™. This partnership provides customers with a high-performance and efficient full-stack infrastructure to power their business-critical workloads.

The solution also enables customers to extend their existing Pure Storage FlashArray investments and complement them with the Nutanix Cloud Platform solution.

The Nutanix Cloud Platform

Nutanix is a pioneer in HCI and offers an effective value proposition. Traditional three-tiered compute, networking and storage infrastructures are condensed into a series of software services that also leverage the hypervisor to deliver shared storage across the cluster's nodes.

This hyperconverged design offers many advantages, including a smaller data center footprint by eliminating a dedicated storage tier, fewer management planes for datacenter operators to work with, and full-stack visibility from the VM all the way down to the specific physical media supporting its associated data.

In the joint Nutanix and Pure Storage solution, Nutanix Cloud Infrastructure (NCI) powers a disaggregated architecture where compute is performed by Nutanix AHV, and storage is delivered by Pure Storage FlashArray via NVMe over TCP. This architecture allows customers to leverage the storage and data services of Pure Storage while benefiting from Nutanix's robust compute virtualization, security, disaster recovery, and operational simplicity.

Additional benefits include:

- **Effortless operations:** Nutanix Prism provides a unified, VM-centric interface that streamlines Day 0 through Day 2 operations. Executives gain faster insights and control with simplified workflows, intelligent automation, and integrated monitoring all from a single pane of glass.

Key Benefits

- **Scaling:** Not all datacenters can flexibly scale compute and storage for virtualized workloads..
- **Trusted Partners:** Leverage Nutanix and Pure Storage FlashArray to scale out as needed.
- **Accessibility:** Use Nutanix compute clusters to access FlashArray volumes via NVMe-oF/TCP.

- **Built-in virtualization with AHV:** Nutanix AHV hypervisor eliminates the complexity and cost of third-party virtualization. It's deeply integrated into the platform, delivering enterprise-grade performance, security, and scalability without the licensing overhead.
- **Integrated network security:** Nutanix Flow delivers microsegmentation and virtual networking that's policy-driven and application-aware. This delivers granular control over east-west traffic, helping reduce risk and support compliance requirements without adding operational burden.
- **VM-centric architecture for agility:** Nutanix is designed around virtual machines, not legacy infrastructure. This enables fast provisioning, easy scaling, and responsive performance for business-critical applications.

All-flash Storage for Modern, On-Premises Virtual Workloads

FlashArray is designed to address the needs of the modern datacenter with its ease of management, reliability, flexibility, and predictable performance.

- **Purpose-built for performance and resilience:** FlashArray is designed from the ground up to natively leverage the performance, density, reliability, and efficiency of flash storage. There are redundant components to provide resilience in the event of a problem.

The hardware, combined with the Pure Storage Purity operating system, delivers maximum performance so you can run different workloads and avoid noisy neighbor issues. With microsecond latency, FlashArray delivers faster, more consistent and more predictable throughput than conventional solid-state drives in legacy storage. FlashArray is available in a wide range of configurations for different performance needs, with the top-tier [//XL models](#) capable of 150µs latency and 45GB/s throughput.

- **Data reduction:** Tackle storage footprint with always-on global deduplication and compression plus exceptional storage density and low power consumption. Compared to legacy disk and many all-flash alternatives, Pure Storage [delivers](#) up to 85% less energy consumption and 5X greater storage density.
- **Storage resilience:** FlashArray hardware promotes reliability, while the Purity operating system protects against concurrent dual-drive failures. Purity also treats performance variability as a failure and uses parity to work around bottlenecks to deliver consistent latency.
- **Cybersecurity protection:** *The encrypt everything* approach of FlashArray and always-on encryption of Purity provides built-in, enterprise-grade data security without user intervention or complicated key management. SafeMode™ Snapshots for ransomware mitigation and anomaly protection from Pure1® prevent cyberattackers from tampering with or maliciously destroying critical recovery data.
- **Ease of deployment, configuration and administration:** Administrators do not need an advanced storage certification and do not face a steep learning curve to perform tasks with FlashArray. Its management interface to the platform's Purity operating system has been optimized to be simple yet robust. Additionally, DevOps is possible with Pure Storage APIs to administer FlashArray storage using code and scripts.
- **Storage insights with Pure1 AIOps:** *The encrypt everything* approach of FlashArray and always-on encryption of Purity provides built-in, enterprise-grade data security without user intervention or complicated key management. SafeMode™ Snapshots for ransomware mitigation and anomaly protection from Pure1® prevent cyberattackers from tampering with or maliciously destroying critical recovery data.
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- **Storage insights with Pure1 AIOps:** Pure 1 enhances the FlashArray management console by providing AI-enhanced analysis and insight for your array or array fleet. Additionally, it can act as a singular point for array software upgrades, provide insight into intelligent workload placement, and quickly analyze and easily move data where it most cost-effectively meets service level agreements – between both physical and virtual hosts or between on-premises and the cloud – to satisfy your customers.

- **Evergreen® Storage:** Deploy it once, and then enjoy a subscription to continuous innovation as you expand and improve performance, capacity, density, and/or features for 10 years or more—all without downtime, performance impact, or data migrations.

A High-Level View of Our Integrated Solution

The integration between Pure Storage and Nutanix products is engineered to minimize disruption to HCI workflows by bridging internal and external storage resources via the Nutanix compute cluster, which is connected to the FlashArray via NVMe over TCP. Once deployed, system administrators working through the Nutanix [Prism](#) management console have the option to deploy new AHV-based VM vDisks to the datastore on the FlashArray system.

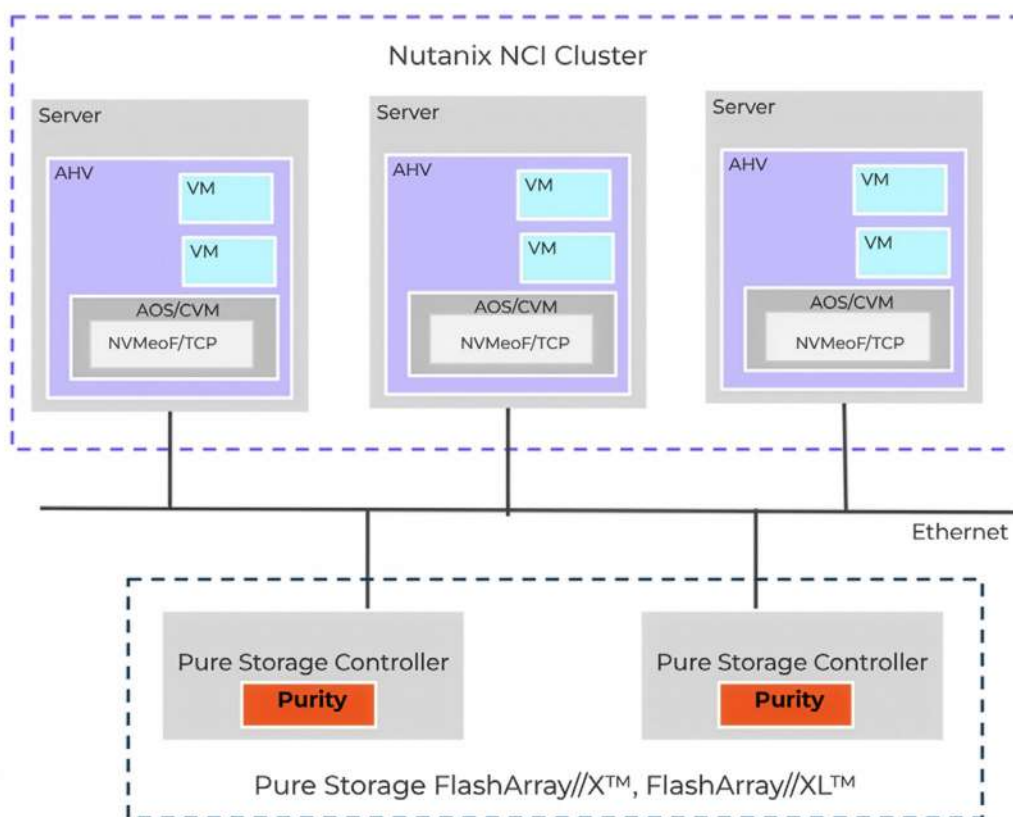



Figure 1. Pure Storage and Nutanix integration



The Nutanix compute cluster supports industry-standard servers from major server vendors, offering customers the choice to use servers from their preferred vendor. While Nutanix Prism offers deployment tools and full lifecycle management for the Nutanix AHV and AOS software on those servers, customers can continue to use their server vendor tools for administration, including lifecycle management for firmware and BIOS.

Learn More

Contact your Pure Storage or Nutanix account team today to learn more about how Nutanix and Pure Storage are working together to modernize workloads with all-flash enterprise storage.

Additional Resources

- Learn more about Pure Storage [FlashArray](#)
- Explore Nutanix [AHV](#)

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