Affordable entry storage to power your VMware vSphere deployments

HPE MSA Storage for VMware vSphere

When supported with the correct underlying storage platform, server virtualization delivers increased infrastructure consolidation, administrative efficiency, business continuity, and cost savings. As a result, server virtualization is not only transforming the data center, but also the businesses that those data centers fuel. However, these transformative results depend on advanced storage to deliver the performance, availability, and flexibility to keep up with the dynamic and consolidated nature of virtualized server environments.

To maximize the many benefits and features that virtualization provides a shared storage system is required. Small- to medium-sized businesses (SMBs) desire the same features— integration, performance, and resiliency— that modern enterprises demand to power their virtual environments but must work within smaller budget constraints. The latest generation of HPE MSA Storage is designed and built to exceed the economic and operational requirements of virtual data centers by providing the storage performance, scalability, availability, and simplified management needed by SMBs with growing storage needs.

When deployed together, HPE MSA Storage with VMware vSphere® provides SMBs the benefits of increased consolidation savings by increasing virtual machine (VM) density, lowering storage costs, and realizing time savings from simplified storage management and provisioning.
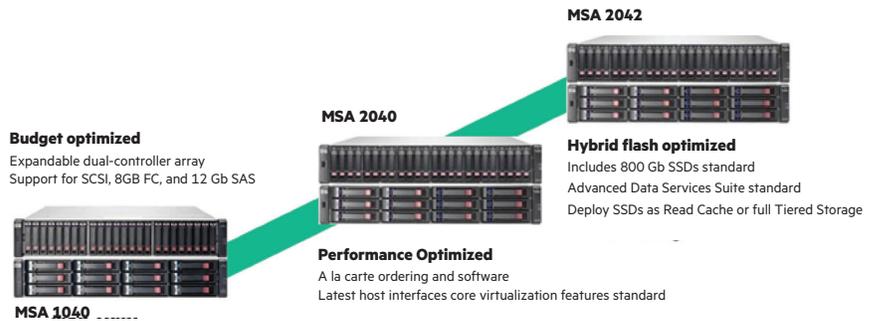
Product overview

Clustered, fault-tolerant, virtualization environments such as VMware vSphere rely heavily upon centrally managed, scalable, SAN resources. The HPE MSA Storage system provides a versatile entry-level SAN solution for vSphere host clusters. Server and vSphere administrators as well as IT generalists find storage management tasks simple and intuitive with MSA Storage. The following section provides an overview on the HPE MSA Storage product family.

HPE MSA Storage

The HPE MSA Storage arrays are positioned to provide an excellent value for customers needing increased performance to support initiatives such as consolidation and virtualization. The MSA family delivers this performance by leveraging a new, fourth generation, controller architecture with more processing resources, 6 GB data cache, and four host ports per controller standard. The controller architecture delivers incredible performance and allows users to extract full benefits from the latest storage technologies such as solid-state drives (SSDs). MSA Storage supports high-performance flash media, flexible connectivity options, and ships standard with a rich set of data services across it's various models.

The HPE MSA Storage array family as shown in figure 1 helps customers with growing storage requirements across multiple servers to easily manage a versatile storage solution for their vSphere environment.

MSA 2042

MSA 2040

Budget optimized
Expandable dual-controller array
Support for SCSI, 8GB FC, and 12 Gb SAS

Hybrid flash optimized
Includes 800 Gb SSDs standard
Advanced Data Services Suite standard
Deploy SSDs as Read Cache or full Tiered Storage

Performance Optimized
A la carte ordering and software
Latest host interfaces core virtualization features standard

MSA 1040

HPE MSA Storage and VMware vSphere

Growing storage needs for virtualized servers now require greater levels of storage performance and functionality at a lower cost of ownership. The new HPE MSA Storage arrays are positioned to provide an excellent value for SMB customers needing increased performance to support initiatives such as consolidation and virtualization. Built for smaller-scale, affordable virtualization, HPE MSA Storage delivers the following key advantages for a virtualization environment with VMware vSphere:

- High performance to meet the peak virtualization demands of cloning or migrating multiple VMs

- Thin provisioning to reduce capacity requirements and space utilization

- Fully-automated SSD Read Cache with hands-free Sub-LUN Tiering accelerate critical Tier-1 VM workloads

- SSD Read Cache and Automated Tiering accelerate critical Tier-1 VM workloads

- The HPE MSA 2042 includes 800GB of SSD and software to create a hybrid config out of the box

- Integration with key VMware vSphere Storage Application Program Interfaces (APIs), including VMware vSphere® Storage APIs—Array Integration (VAAI), and vSphere APIs for Storage Awareness (VASA) to improve efficiency

- Supports Unified LUN Presentation (ULP) to enable active-active Asymmetric Logical Unit Access (ALUA) compliant multipathing

- Single console management with HPE OneView for VMware vCenter Server™

- Support for large VMware vSphere® Virtual Machine File System (VMFS) datastores and space reclamation (UNMAP)

- Support for VMware Site Recovery Manager™ (SRM) for business continuity (BC)/disaster recovery (DR) solutions

- Storage redundancy in a small footprint with no single point of failure

Summary

The MSA Storage arrays are well suited for SMBs looking for a cost-effective, entry-level storage solution with the capacity to scale to meet business needs and virtualization growth. With support for various connectivity options, array-based snapshots, and VMware Storage APIs out of the box, MSA Storage provides a versatile storage array for VMware vSphere environments.

Learn more at
hp.com/go/msa
hp.com/go/storage/vmware

f 𝕏 in ✉

Sign up for updates

Hewlett Packard
Enterprise