



HPE StoreVirtual VSA Software

Server virtualization with software-defined storage

HPE StoreVirtual VSA is a cost optimized solution for virtual environments that delivers flexible, easily scalable shared storage without the expense of dedicated storage hardware. With a comprehensive enterprise-class feature set, built-in high availability and disaster recovery capabilities, StoreVirtual VSA delivers business continuity within a converged infrastructure and is ideal for businesses with limited floor space, no local IT resources or those looking for hybrid IT efficiencies.

Key features and benefits

Simple and flexible to manage

- Enjoy all the benefits of traditional SAN storage without a dedicated storage device. StoreVirtual VSA provides a simple, cost-effective way to build enterprise level, highly available, shared storage functionality into your server infrastructure.
- Give new life to your existing servers by virtualizing your environment and using StoreVirtual VSA to convert disks in your servers into shared storage.
- All StoreVirtual VSA nodes in your environment, onsite or across multiple sites, can be managed from the Centralized Management Console (CMC). The CMC features a simple, built-in best practice analyzer and easy-to-use update process.
- Flexibly choose what works best in your environment with no vendor lock-in. StoreVirtual is tightly integrated with VMware®, Microsoft® and Linux® to keep your storage infrastructure easy to manage.

Keep costs down and data protected as you grow

- Lower storage costs and achieve high availability with as few as two nodes that easily scale from within data centers and remote/branch offices. Use the simple and quick wizard driven installation or scriptable installs for automated repeatable deployments.
- Snapshots provide instant, point-in-time volume copies that are readable, writeable, and mountable for use by applications and backup software. Avoid data loss of any single component in a storage node with StoreVirtual's multi-fault protection.
- Remote Copy enables centralized backup and disaster recovery on a per-volume basis and leverages application integrated snapshots for faster recovery.

Business continuity with proven high availability

- Achieve five-9's (99.999%) availability with StoreVirtual's clustering and built-in Network RAID that stripes and protects multiple copies of data across clusters of nodes, eliminating any single point of failure. Applications have continuous data availability in the event of a disk, controller, storage node, power, network, or site failure.
- Create availability zones within your environment across racks, rooms, buildings, and cities and provide seamless application high availability with transparent failover and failback across zones—automatically.

Increase scalability and storage efficiency

- Use StoreVirtual VSA with solid-state drives (SSDs) to provide a high-performance storage solution in your environment. Create an all-flash tier for maximum performance or use a lower cost alternative with StoreVirtual Adaptive Optimization to create automated tiers with an optimized amount of SSDs.
- Maximize storage utilization by deploying high-performance arrays at the main site and cost-effective appliances at remote sites. Use management plug-ins for VMware vCenter and Microsoft System Center to centrally administer both VMs and storage.
- Add more internal storage capacity to the cluster by simply adding servers with StoreVirtual VSA installed. No external storage device required: Create shared storage out of internal or external disk capacity (DAS, SAN); (FC or iSCSI).
- Scale-out storage architecture allows the consolidation of internal and external disks into a pool of shared storage. All available capacity and performance is aggregated and accessible to every volume in the cluster. As storage needs grow, the cluster scales out linearly while remaining online.
- Seamlessly move volumes between storage systems, clusters, locations, disk types and form factors with Peer Motion while staying online.

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TECHNICAL SPECIFICATIONS

Hardware support	Runs on all HPE ProLiant or third-party servers and c-Class server blades certified with VMware vSphere, Microsoft Hyper-V, or Linux KVM
Warranty standard statement	3-year or 5-year HPE software support standard; 9x5 business hours phone support (software technical support and software product and documentation updates)
QuickSpecs	h18000.www1.hp.com/products/quickspecs/13255_div/13255_div.pdf

The total package—solution value statements

- Gain the benefits of a SAN without requiring a physical SAN infrastructure as StoreVirtual VSA turns hypervisor-attached storage into a virtual iSCSI array.
- Take advantage of hypervisor features such as VMware vMotion and Microsoft Live Migration, which require shared storage.
- StoreVirtual VSA enables a disaster recovery solution for remote or branch offices that do not have budget, space, or power for a traditional SAN.

The total package—software

- Deploy easily and control using a simple management console
- Choose your own hardware—run on any server certified with VMware vSphere, Microsoft Hyper-V, or KVM
- Scale storage by clustering disks in multiple servers into a single pool of storage
- Enhance performance benefits from flash with Adaptive Optimization auto-tiering feature
- Thin provisioning for efficient storage utilization
- 2- node quorum available to ensure high availability and transparent failover for smaller deployments
- Increase your data storage utilization by transitioning unused storage from a volume with Space Reclamation feature
- Deploy your own hybrid cloud with StoreVirtual Cinder driver integrations into OpenStack
- Increase the efficiency of your workloads by directly connecting with volumes through the integrated multi-pathing feature
- Replicate data synchronously across VSAs for beyond-the-box availability with Network RAID
- Asynchronous replication provides business continuity for remote sites
- Application integrated snapshot capability for data protection with no reservation pool

The total package—service

Service and support, HPE Care Pack, and warranty information services included with the product

HPE StoreVirtual VSA includes your choice of three-year or five-year HPE software support, standard 9x5 business hours phone support (software technical support and software product and documentation updates), and a 90-day media replacement-only warranty. Including software updates and comprehensive support enhances the performance and availability of your software. Experienced HPE Response Center engineers provide trustworthy advice on issues such as software features and use, problem diagnosis and resolution, and software defect identification.

Software licensing terms

License keys enable all features of the HPE StoreVirtual VSA, including storage clustering, application-managed snapshots and Remote Copy. Keys are required for each individual VSA instance and are available in 1 TB, 4 TB, 10 TB and 50 TB capacities.

HPE Services

HPE Storage Services: offering reliability, flexibility, and value—just like your storage

Choose from a rich portfolio of services to make the most of HPE Storage, so you can move with confidence to take full advantage of the broadest, one of the most advanced portfolios in the industry.

HPE Storage Services offers a full spectrum of customer care, from technology support to complex migrations to completely managed services. hpe.com/services/storage

- HPE StoreVirtual Software Installation and Startup Service
- HPE StoreVirtual Central Management Console Installation and Startup Service
- HPE StoreVirtual Update Service (via HPE Proactive Select menu)
- HPE Performance and Capacity Assessment for StoreVirtual (via HPE Proactive Select menu)
- HPE SAN Assessment Service (via HPE Proactive Select menu)
- HPE Storage Data Migration Services
- HPE Storage and Data Consultant Residency Service
- HPE Proactive Select

HPE Education offers flexible, comprehensive training on storage networking, disk storage systems, and storage software to help your IT staff get the most out of your investments. Gain the skills you need with HPE ExpertOne training and certification. With HPE Converged Storage training, you can accelerate your technology transition, improve operational performance, and get the highest return on your HPE investment. Our training is available when and where you need it, through flexible delivery options, and a global training opportunity. hp.com/learn/storage

HPE financial solutions extend innovative financing and asset management programs to cost-effectively buy, manage, and eventually retire your older equipment. Optimize your IT investment strategy with new ways to acquire, pay for and use technology, in lock-step with your business and transformation goals. hpe.com/solutions/hpefinancialservices

Convert your Microsoft, VMware or Linux server into a virtual array and benefit from high availability with HPE StoreVirtual VSA Software.

Only HPE brings together deep expertise, proactive and business critical support, and a strong partner network—plus a full set of infrastructure services designed to power a converged infrastructure.

Learn more at
hpe.com/storage/vsa



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