Hewlett Packard Enterprise

SDS blueprints at a glance

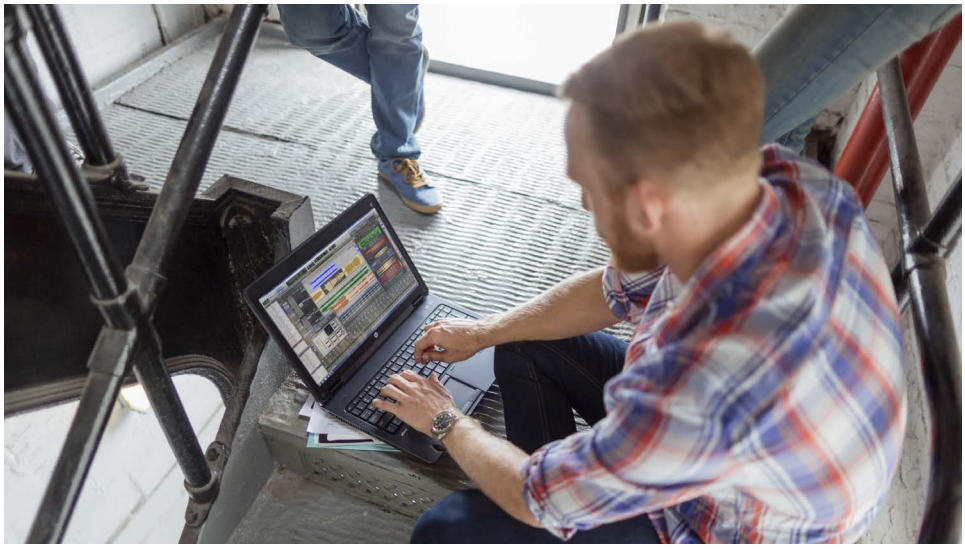
HPE software-defined storage blueprint series overview

Software-defined storage
- HPE StoreVirtual VSA

Hyperconverged appliances
- HPE Hyper Converged 250
- HPE Hyper Converged 380

Blade Server Systems
- HPE BladeSystem

Traditional IT storage
- HPE StoreVirtual 4335 Hybrid System



HPE Software-Defined Storage blueprints

Software-defined storage (SDS) blueprints depict typical configurations for HPE solutions, to give you an idea of how to deploy HPE StoreVirtual technology in the field.

Each blueprint in the series includes a brief description of customer challenges, an example SDS configuration that addresses those challenges, a simple, high-level diagram, a list of suggested software and hardware components, and recommendations for expanding or modifying the solution for different environments.

Collectively, the technical briefs provide a basic overview of StoreVirtual technology deployment.

- **Blueprint #1** provides an introduction to SDS.
- **Blueprint #2** explains how HPE StoreVirtual VSA works to create storage inside a server.
- **Blueprint #3** shows how to set up shared storage across three or more servers on a network.

Each successive blueprint in the series presents a typical use case, from virtualized storage on servers in a single office to more complex configurations within the data center, across buildings, or around the world.

SDS blueprint series

1. **Introduction to HPE StoreVirtual VSA: What is software-defined storage?**	**Blueprint #1** compares traditional data storage with SDS technology. Includes definition of virtual storage appliance (VSA), basic features and benefits, and environments for deployment.
2. **Leverage server capacity with HPE StoreVirtual VSA: Deploying software-defined storage on individual servers**	**Blueprint #2** describes the challenges of traditional IT infrastructures, and shows how SDS addresses these challenges. It depicts HPE StoreVirtual VSA installed on one or two individual servers at a single site.
3. **Create a simple virtual storage array with HPE StoreVirtual VSA: Fault-tolerant shared storage for virtualized environments**	**Blueprint #3** explores the limitations of physical storage systems and storage siloes. The technical brief describes StoreVirtual VSA deployed on virtual machines (VMs) for shared storage in virtualized server environments, and illustrates a storage cluster at a single site.
4. **Create a high performance virtual storage array with HPE StoreVirtual VSA: Scalable HA storage for virtualized environments**	**Blueprint #4** addresses unpredictable workloads and investment protection in mixed-vendor IT environments. It depicts an all-flash, low-cost, high-performance StoreVirtual VSA storage solution at a single site. It includes a description of adaptive optimization, an auto-tiering feature that improves data accessibility.
5. **Setting up VSA for replication to BladeSystem**	**Blueprint #5** includes an HPE BladeSystem c7000 enclosure at the data center, and StoreVirtual VSA installed on industry-standard servers at remote offices. BladeSystem is a modular infrastructure platform that converges servers, storage, and networking in virtual and cloud-computing environments, significantly reducing capital costs and data center footprint.
6. **Setting up VSA for replication to physical storage devices**	**Blueprint #6** shows a cost-effective, simple configuration for small to midsize businesses looking to deploy SDS at remote sites with HPE StoreVirtual 4335 Hybrid Storage Systems at the main office.
7. **Setting up hyperconverged systems for replication to VSA**	**Blueprint #7** describes open-platform storage solutions comprised of HPE Hyper Converged appliances and StoreVirtual VSA. The configuration includes StoreVirtual VSA at the data center and HPE Hyper Converged 250 appliances, which can be deployed quickly and managed by IT generalists, in multiple remote sites.

Learn more at
hpe.com/storage/sds

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