



# Affordable, Reliable Data Storage for Today's Needs from HPE and SUSE

As enterprises collect more and more data and learn to pull more value from it, the need to store, protect and access that data is becoming a challenge. Traditional storage systems simply won't be able to keep up, but software-defined storage can.

## SUSE Enterprise Storage and HPE at a Glance:

- **Simple:**  
Sold and supported directly through HPE in proven configuration
- **Scalable:**  
Cost-effective scaling with HPE hardware and SUSE's node-based subscription model
- **Protected:**  
A silicon root of trust, geographic replication and erasure coding to keep data safe
- **Available and efficient:**  
File, block and object storage support through a single system
- **Products:**
  - + SUSE Enterprise Storage
  - + HPE Apollo
  - + HPE Cloudline
  - + HPE ProLiant
  - + HPE Synergy

No matter what industry you operate in, data storage is likely becoming an issue. You need a storage solution that offers near-real-time access to different kinds of data, and it must be flexible, with intuitive administration and an affordable total cost of ownership. That's why, like many enterprises, you're probably considering software-defined storage.

SUSE Enterprise Storage™ running on Hewlett Packard Enterprise (HPE) hardware provides a software-defined storage solution that gives you cost-effective, extremely scalable and unlimited data storage for whatever use case your enterprise faces.

SUSE and HPE can meet your needs, whether as a disk-based backup, storage for high-performance computing, part of a compliance archiving solution, or storage for video surveillance and content distribution. The entire solution is sold and supported directly by HPE and comes in certified hardware configurations.

## Simple, Available and Efficient

SUSE Enterprise Storage is built on Ceph open source software-defined storage technology so you can avoid proprietary hardware and use something more cost-effective, such as HPE's servers, with their wide range of server memory options.

You can configure SUSE Enterprise Storage to support block, object or file storage. It also simplifies the installation and configuration of Ceph clusters, so your IT team can concentrate on managing storage.

## A Low Cost of Ownership

SUSE Enterprise Storage offers node-based pricing (as opposed to per-gigabyte pricing), making it the lowest-priced option for enterprise disk-to-disk backup, as well as other storage tasks.<sup>1</sup>



“Ceph on SUSE Enterprise Storage seemed to offer everything we needed with file and block storage and snapshots, all running on our existing HPE ProLiant DL380 platform using HPE Integrated Lights Out, which provides the reliability and easy management we needed for the new solution.”<sup>2</sup>

Howard Samm  
Head of Infrastructure  
Experian Business Information Systems

SUSE Enterprise Storage cluster automation allows a single person to manage 3 to 4 PB of storage. That's more than six times what a person could manage in an equivalent block storage environment.

#### Near-Linear Scaling to Match Your Growth

The flexible, clustered design of SUSE Enterprise Storage means it can scale quickly to massive proportions. Simply add HPE hardware, and SUSE Enterprise Storage will automatically integrate it and redistribute workloads as necessary.

#### Protection for Your Data

SUSE Enterprise Storage is self-healing and self-managing. It can automatically detect changing conditions and redistribute workloads in case of a problem. Built-in fault tolerance keeps the system working despite component failure and helps ensure that you don't lose any data.

HPE also offers a silicon root of trust on its Gen10 servers and is the only vendor to do so. That ensures that the server will never boot with compromised firmware.

#### Solution Components

SUSE Enterprise Storage runs as an extension on SUSE® Linux Enterprise Server, a secure, open source server operating system that helps you accelerate innovation, improve system reliability, comply with evolving security requirements and adopt new technologies. It usually requires less than two hours' configuration time after hardware is unpacked and ready.

HPE Apollo servers provide breakthrough performance, storage density and scalability in a small footprint; HPE Cloudline servers are built specifically for cloud data centers; and HPE ProLiant servers provide the perfect balance of performance, expandability and manageability.

HPE Synergy is the world's first platform architected for composable infrastructure. A composable system virtualizes



the entire IT infrastructure. It creates pools of resources that are automatically composed in near real time to meet compute needs. SUSE Enterprise Storage is the first object-based, multiprotocol storage certified on HPE Synergy.<sup>3</sup>

#### A Valuable Partnership

HPE and SUSE have 25 years of joint engineering and innovation. That is why HPE uses SUSE technologies to develop, qualify and provision ProLiant servers and as the operating system for all Superdome benchmarks.

Reference architectures are available for many SUSE and HPE collaborations, including SUSE Enterprise Storage on HPE Apollo Servers<sup>4</sup>, at [www.suse.com/hpe](http://www.suse.com/hpe).

#### Learn More

Learn more about how SUSE Enterprise Storage can save your business time and money at [www.suse.com/products/suse-enterprise-storage](http://www.suse.com/products/suse-enterprise-storage).

Website: [suse.com/hpe](http://suse.com/hpe)

E-mail: [hpeteam@suse.com](mailto:hpeteam@suse.com)

- 1 See exactly how SUSE Enterprise Storage stacked up against other options in IT Brand Pulse's 5 Year TCO Case Study.
- 2 <https://suse.lookbookhq.com/suse-and-hpe-on-sds-business-view/experian-success-story>
- 3 <https://community.hpe.com/t5/Converged-Data-Center/HPE-Synergy-certifies-the-first-object-storage-offering-with/ba-p/6976500#WmJqMq6nG6J>
- 4 <https://suse.lookbookhq.com/suse-and-hpe-on-sds-technical-view/RA-ses-on-hpeapollo>