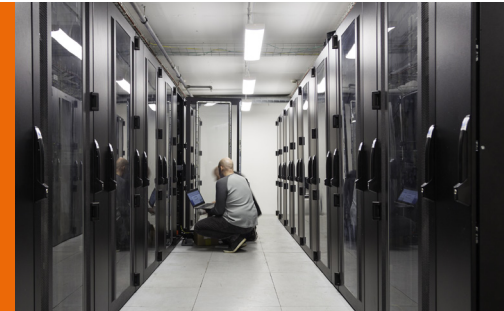


Strategic Partners to Redefine Open Software-Defined Storage

Solution Brief

Nexenta & Lenovo Bring Software-Defined Storage to Today's Enterprise



Software-Defined Storage (SDS) technologies have transformed the economics of the data center, enabling enterprises to meet their full range of storage needs at the best price for performance ratio available in the market today. No longer are companies locked into a hardware-based storage solution with proprietary architectures and exorbitant prices. SDS decouples storage software from hardware while delivering resiliency and performance – all at an unprecedented low total cost of ownership (TCO).

Organizations are now deploying SDS for the full range of storage workloads, from high-performance, mission-critical applications to data archives on spinning media. SDS delivers reliability built into the software layer and a robust set of solution that have undergone testing to confirm their resiliency and suitability for demanding data center environments. Organizations that choose SDS enjoy reliable, highly integrated, flexible, and cost-effective storage, with redundancy and manageability built in.

Why Lenovo & Nexenta?

Lenovo and Nexenta have teamed up to enable enterprises to transition to leading SDS solutions without compromise. Nexenta's SDS platform has already helped thousands of customers all around the world to transform their storage infrastructure, increase flexibility and agility, simplify management and dramatically reduce costs without the trade-off on availability, reliability or functionality. Nexenta SDS combined with Lenovo's worldwide leadership and innovation in servers, supporting over 160 countries, allows customers to take advantage of a broad set of validated, next generation storage solutions.

Lenovo and Nexenta provide our customers a number of solutions to speed up their SDS decision process. Reference Architectures (RAs) allow organizations to choose the best pre-qualified configuration for their needs and remove all the guesswork.

A Compelling Solution

NexentaStor & Lenovo Solution Ideal For:

- High-performance, full-featured block storage (NFS, FC, or iSCSI)
- Generic NAS file services and Home Directory storage (SMB and NFS)
- VMware cloud backend (NFS, FC, or iSCSI)
- OpenStack & Cloud Stack (NFS, FC, or iSCSI)

NexentaEdge & Lenovo Solution Ideal For:

- Built to Support OpenStack Clouds (iSCSI Cinder & Swift Object API)
- Multi-PB Active Archiving (Swift & S3 Object API)
- Scale-Out Storage for VMware (Low latency iSCSI services)
- Deployed as a Storage Container

Nexenta and Lenovo

Solution Benefits

Any App, Any Protocol, from Flash to Hybrid, to HDD

By providing a software-only storage solution, including a rich feature set across your complete protocol's needs (block, file, and object), Nexenta enables you to deliver a Software-Defined infrastructure to your legacy and next generation applications, while giving you the freedom to choose the platform you want to run on.

Nexenta reference architectures built on Lenovo's innovative platform provide customers with true flexibility to deliver a consistent platform for your entire enterprise. Whether you need high-performance, all-flash configurations for your transactional enterprise workloads, applications where you need to balance performance for your dollar, or large disk deployments to support your growing archives, we have your needs covered.

Hardware Innovation Turbo-Charging SDS

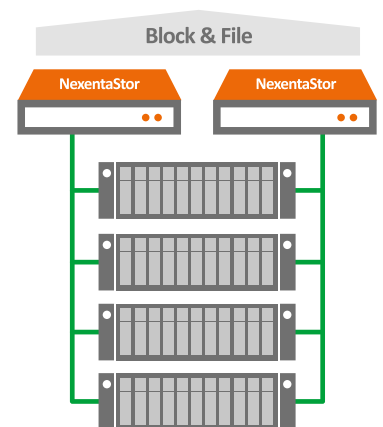
Lenovo's offers companies the ability to tackle enterprise workloads with power, efficiency, and reliability through a choice of flexible storage configurations for workload-optimized performance.

With the powerful, versatile 2U two-socket Lenovo ThinkSystem SR650 rack server, you can run even more workloads 24/7, and gain valuable business insights faster. Integrated with up to two latest generation Intel® Xeon® Scalable processors and faster TruDDR4 Memory, the SR650 fast-forwards your business. You can select from an impressive array of storage configurations (up to 84 drive bays) that optimize diverse workloads from cloud to big data.

Reduce data center costs with smart and energy-efficient features, including unique 40° C operating temperature, 80 PLUS® Titanium power supplies (up to 96 percent efficiency), active/standby power supply modes, dual fan zone design, and TruDDR4 Memory (up to 45 percent lower energy use over DDR3).

Supported drives include 10,000rpm and 7,200rpm HDDs and SSDs for read-intensive workloads.

NexentaStor & Lenovo Feature Diagram



Workloads

- Virtualization, Cloud back-end
- File shares, home directories
- Live archive
- OpenStack and CloudStack

Protocols

- FC and iSCSI
- NFS and SMB

Features

- Active-Active controllers
- High availability
- Software RAID (mirrors, n+1, n+2)
- Unlimited snapshots and clones
- Inline compression
- Remote replication
- Scales from 64TB to 2PB

Hardware Platforms

- Lenovo ThinkSystem SR650 (controllers)
- Lenovo Storage Enclosures: D1212, D1224, and D3284



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To learn more visit Nexenta.com/partners/solutions-Lenovo or contact sales@nexenta.com to view the Nexenta-Lenovo reference architecture.