All-Flash-Array Meets SDS
Solution Brief

Nexenta and SanDisk Team up to Deliver Cost-Effective Performance for Large Enterprises

Software-Defined Storage (SDS) technologies have transformed the economics of the data center, enabling enterprises to meet their full range of storage needs at highly competitive price points. No longer are companies locked into hardware-based storage solutions 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).

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

All-Flash-Array Meets SDS: Integrated Solution Architecture from SanDisk and Nexenta

SanDisk and Nexenta have collaborated to offer organizations an exceptionally robust, easy-to-use, and highly scalable storage solution. This pre-tested and validated all-flash storage infrastructure integrates NexentaStor's market-leading SDS for block and file storage with SanDisk's flash storage technologies, including the InfiniFlash all-flash system.

This integrated software and hardware solution is fully validated and delivers enterprise-class performance and reliability. The NexentaStor User Interface offers easy access to monitoring and event management capabilities across both products, enabling a great customer experience. Industry-leading flash storage technology provides enterprises ultra high density all-flash storage with unmatched latency. Its block and file services deliver cost savings because they use approximately half the power that would be required by an equivalent disk-based configuration.

NexentaStor on SanDisk InfiniFlash: A compelling solution

- VMware cloud backend storage (NFS, FC or iSCSI)
- OpenStack and CloudStack backend storage (NFS, FC or iSCSI)
- Generic NAS file services and Home Directory storage (SMB and NFS)
- High-performance, full-featured block storage (FC and iSCSI)
- Extreme density, low-power, low-cooling cold storage (NFS, FC or iSCSI)
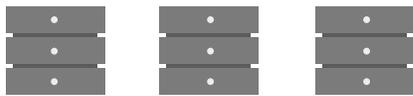- Integrated management through the NexentaStor User Interface

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Nexenta and SanDisk

High-Performance Unified Block and File Storage

The technical collaboration between SanDisk and Nexenta spans Nexenta's scale-up and scale-out Software-Defined Storage products and the SanDisk portfolio of performance-driven flash technologies ranging from SSDs to the all-flash system InfiniFlash.

The NexentaStor and SanDisk InfiniFlash combination provides a complete set of features including:

- Industry-leading TCO for full-featured block and file all-flash storage
- High-performance, low-latency block (FC & iSCSI) and file (NFS and SMB) unified storage services
- Simple scaling from 64Terabytes up to 2 Petabytes of extremely dense, power-efficient all-flash storage
- Provision of 2 Petabytes of block and file services in as little as 16 rack units and 2,500 Watts—less than half the power required by an equivalent disk-based configuration
- High-performance inline data reduction
- Software-based single-parity or dual-parity RAID
- Unlimited snapshots and clones
- Disaster Recovery protection with long distance periodic asynchronous replication
- Integrated management through the NexentaStor User Interface
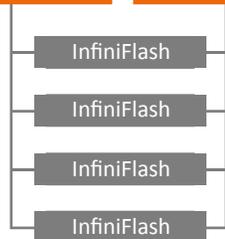
Workloads
- Virtualization, Cloud Backend
- File Shares, Home Directories
- Live archive
- OpenStack and CloudStack

Block & File

Protocols
- FC and iSCSI
- NFS and SMB

NexentaStor   NexentaStor

InfiniFlash

InfiniFlash

InfiniFlash

InfiniFlash

Features
- Active-Active Controllers
- High Availability
- Software RAID (mirrors, n+1, n+2)
- Unlimited Snapshots & Clones
- Inline Compression
- Remote replication
- Scales from 64TB to 2PB

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