

# Data Protection for the Modern Virtualized Data Center Solution Brief

Veeam Backup and Replication and NexentaStor deliver cost-effective certified data protection for virtualized data centers



**NexentaStor**

Unified File and Block Storage Solution.

## NexentaStor

NexentaStor is the most widely deployed Software-Defined Storage (SDS) platform, allowing thousands of customers all around the world to transform their storage infrastructure to realize:

- Increased flexibility and agility
- Simplified management
- Reduced costs without compromise

Combining Veeam with NexentaStor – the leading software-defined storage environment – provides companies with an integrated backup tool and storage environment that delivers fast, flexible, and reliable recovery and availability for the modern data center. This joint solution delivers recovery time and point objectives (RTPO) of less than 15 minutes for all applications and data – at a highly cost-effective price.

Companies looking for cost-effective backup and recovery in the cloud turn to Veeam Backup & Replication,™ now the #1 VM backup for VMware vSphere and Microsoft Hyper-V virtual environments. Combining Veeam with NexentaStor provides Veeam customers a single solution for enterprise-grade capabilities across all tiers of target storage, from high-performance production-grade configurations to archival backup, so you can continue to deliver services from tertiary systems while backing up primary systems. Because NexentaStor is an open-source solution, you can select the most cost-effective level of hardware for each tier, including existing hardware. While NexentaStor can serve as both source and target storage, you can use any storage array as your source and manage a diverse set of storage appliances as one seamless solution.

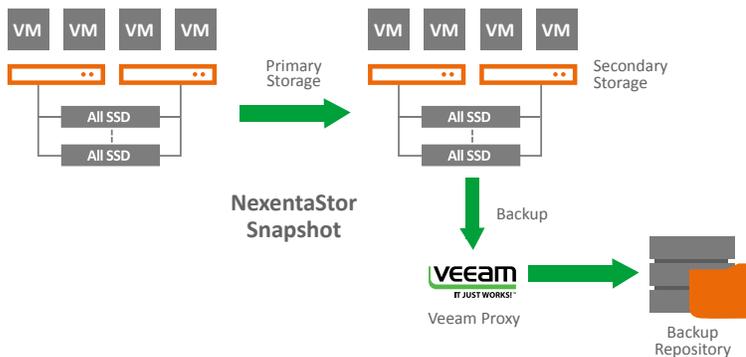
## Integrated Backup and Storage with a Veeam-Nexenta Solution

- Enhance resilience by continuing to deliver services – even from tertiary storage systems – if production storage systems are interrupted or backing up
- Gain enterprise-grade capabilities across all tiers of source and target storage with a single easy-to-use solution
- Reduce capital investment by selecting the most cost-effective storage hardware for each tier and create higher utilization rates with market-leading inline data reduction
- Reduce operational costs by streamlining and unifying management of all storage resources

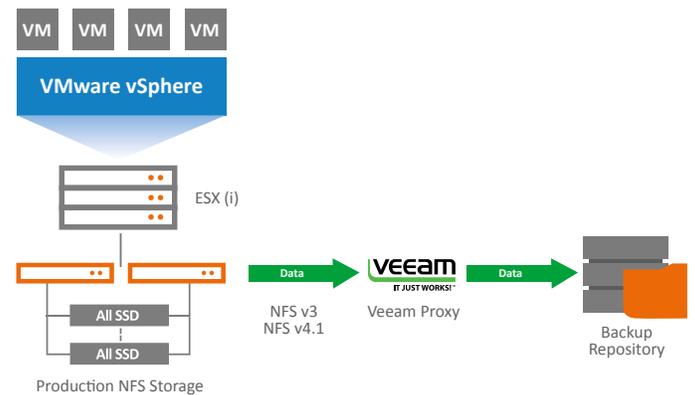
## Solution Benefits

Companies have two options for using NexentaStor as storage for a Veeam backup environment. You can back up VMware production workloads running on NexentaStor primary NFS storage, using NFS to connect with a Veeam proxy and then to a NexentaStor backup. Or you can snapshot data from primary to secondary NexentaStor storage then back it up with a Veeam proxy and store it in a backup repository.

### Leveraging Snapshots



### Generic Backup Deployment



### Key Solution Features

Management Software	NexentaStor 4.x
<b>Storage Protocols</b>	10GbE NFS v3, NFSv4 / 10GbE SMB 3 / 10GbE iSCSI / 12Gbps SAS/ 16Gbps FC
<b>Supported Configurations</b>	Controllers on R730: <ul style="list-style-type: none"> <li>• Single controller</li> <li>• Active/Active in HA pairs</li> </ul> Storage Enclosures: <ul style="list-style-type: none"> <li>• Single path with single controller in HA pair</li> <li>• Dual path with single controller</li> <li>• Multi path with HA controller pair (best practice)</li> </ul>
<b>Data Availability and Integrity</b>	ZFS 256-bit block level checksums RAID 10 and multi-parity software RAID Asynchronous replication
<b>Data Services and Optimization</b>	Flash and HDD hybrid protocols ZFS Copy On Write Unlimited writable snapshots Thin provisioning Inline data reduction (compression, deduplication)
<b>Scalability and Management</b>	CLI and Web UI SNMP and REST API RA configurations up to 1PB raw
<b>Integrations</b>	VMware VAAI vCenter plugin OpenStack Cinder

# Nexenta

## Product Benefits

### nexenta® OpenSDx Vision

Nexenta has a vision of providing organizations – from data centers to end users and from the infrastructure to apps – with the true benefits of Software-Defined Everything-centric Cloud Computing. We promote and drive open partnerships with customers and providers of all kinds of solutions, from compute to networking, HDDs to SSDs, cloud platforms to the application infrastructure, and business analytics. We call our vision Open Software-Defined Everything (OpenSDx).

### nexenta® OpenSDS Portfolio

Nexenta uniquely integrates software-only open-source collaboration with commodity hardware-centric Software-Defined Storage innovation to create Open Software-Defined Storage (OpenSDS). Nexenta OpenSDS solutions are 100 percent software-based, and 100 percent hardware-, protocol-, and app-agnostic, providing organizations with freedom of choice and protection from vendor lock-in.

### NexentaStor

Nexenta's flagship Open Source-driven Software-Defined Storage (OpenSDS) solution, NexentaStor, delivers unified file and block storage services, runs on industry-standard hardware, scales from tens of terabytes to petabyte configurations, and includes all data management functionality by default.

### NexentaEdge

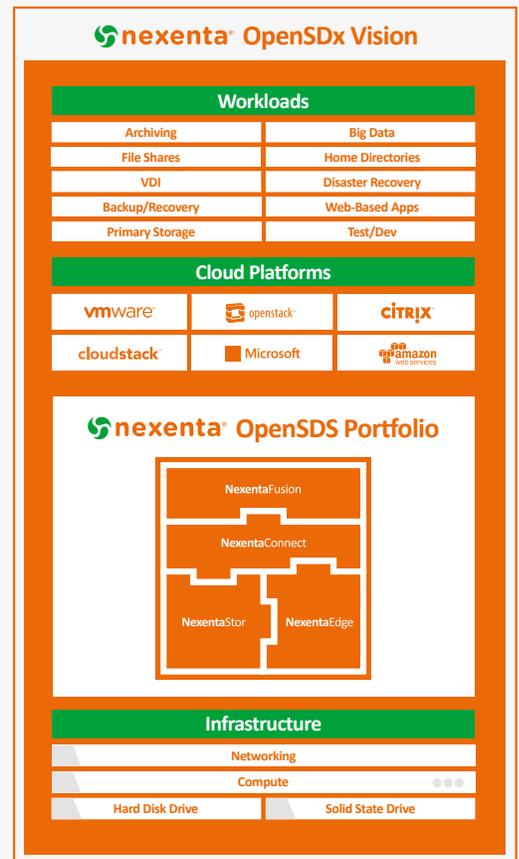
NexentaEdge delivers high performance block and object storage services and limitless scalability to next generation OpenStack clouds, petabyte-scale active archives, and Big Data applications.

### NexentaConnect

NexentaConnect is a complete suite of software solutions that builds on Nexenta storage software and provides seamless integration with third-party products and services to address storage challenges in desktop and server virtualization deployments.

### NexentaFusion

Bringing all of the above together, NexentaFusion provides single-pane-of-glass reporting, monitoring, analytics, and orchestration for all your storage assets.



Revolutionize Your Data Storage.

## Choose Nexenta Software-Defined Storage

Request an assessment at [www.nexenta.com](http://www.nexenta.com)



Toll free: 1-855-639-3682  
sales@nexenta.com  
nexenta.com

twitter.com/nexenta  
facebook.com/nexenta  
LinkedIn: Nexenta Systems Inc

**Nexenta Systems, Inc.**  
451 El Camino Real, Suite 201  
Santa Clara, CA 95050

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