Nexenta Archiving, Backup, and Recovery

Cost-Effectively Protect Data Availability and Integrity

NexentaStor lets you replace multiple data protection products with single-console management of the entire storage life cycle

Protect your business-critical data – and your business – with NexentaStor

Data is a critical asset for your organization. You need to make sure users can always access that data, and protect it so that it retains integrity and can be restored in the event of a system problem. But too many organizations aren't fully protecting data availability and integrity. Here are some disturbing facts:

- 30% of computer users say they spend the equivalent of one week per year reconstructing lost data.
- 40% of small- and medium-sized businesses don't back up data at all.
- Growth in file-based storage requirements is making it hard to meet recovery point objectives (RPO) and recovery time objectives (RTO) with tape-based back-up systems – but the alternative, disk-to-disk back-up, often won't work with legacy storage.

Deploy NexentaStor™ software-defined storage (SDS) to help meet compliance requirements and protect your primary storage from data corruption or accidental deletion by leveraging snapshot technologies to rapidly provide point-in-time copies of data. In the event of a system problem or to support your compliance requirements, NexentaStor RAID can provide additional protection, even if multiple drives fail.

NexentaStor offers an accessible online data store that facilitates and safeguards your critical information for extended periods of time. It leverages open-source ZFS to deliver unified file and block storage services, runs on industry-standard hardware, scales from terabytes to petabytes, and includes extensive data management functionality: accelerated write performance, data integrity assurance, inline data reduction, fast snapshots, cloning, and more.

With NexentaStor as your backup and archiving target, you'll get the capabilities you need in order to meet your RPOs and RTOs – all while lowering costs, easing storage management, and incorporating common software between different hardware platforms.

The Nexenta Advantage

- Simplify administration with single-console management of the entire storage life cycle
- Ensure data reliability and availability with built-in software RAID protection
- Increase data integrity with ZFS copy on write and checksum of all data
- Protect data better with snapshot-based replication
- Cut administration overhead with NDMP integration
- Scale up to multiple PBs of storage raw capacity configurations

" *The performance is incredible and management is intuitive and straightforward... We wanted a safe, stable, flexible, high-performing SAN solution, but we did not want to be locked into a proprietary storage solution. Having an open system on standard server hardware was an important factor for us.* "

Torbjörn Wiger CTO
Compare/Nordic MedTest

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Reliable, Robust, and Secure Data Center Deployments

Overview

NexentaStor-based disk-to-disk backup enables you to more fully protect vital business data in primary storage systems – without the vendor lock-in or limitations of legacy storage technologies.

NexentaStor transparently supports industry-leading applications. Its unlimited file system size means you can copy, replicate, and back up all data as needed. Its software-based archiving and backup provides RAID, snapshot-based replication, HA (licensed feature), multi-protocol support, deduplication, and mirroring.

NexentaStor is built on open-source ZFS technology, which eliminates the need to take systems off line for backups and protects data from degradation over time – bit rot – because it automatically repairs corrupted data in any configuration with mirrored or RAID-Z storage pools.

Key Features

RAID

ZFS offers software RAID through its RAID-Z and mirroring organization schemes. RAID-Z is invulnerable to the write hole error which other types of RAID suffer from. RAID-Z1 allows one disk to fail without impact on the delivery of file and block services, RAID-Z2 allows two disks to fail, and RAID-Z3 allows up to three disks to fail, reducing the risk involved with disk replacement.

Asynchronous Replication

Nexenta Auto-Tier and Auto-Sync (part of NexentaStor Enterprise) support remote and multi-destination replication over an IP network. Administrators can schedule this fault-managed, fully configurable data replication service to run as frequently as necessary.

Snapshots

The Auto-Tier integrated feature snapshots local data on a scheduled or ad-hoc basis. Auto-Sync replicates the Auto-Tier created snapshots to a remote location for disaster recovery.

Change Block Tracking

Auto-Sync and Auto-Tier support incremental intelligent replication. After initial replication is complete, Auto-Sync and Auto-Tier transfer only the accumulated differences between source and destination, minimizing network traffic across physical and virtual environments.

Benefits

In thousands of deployments, NexentaStor protects businesses' vital data assets through state-of-the-art archiving, backup, and recovery – while also dramatically cutting storage costs, reducing risk, simplifying management, and enhancing performance.

Cut costs: Nexenta makes it easy for you to scale storage and IOPS up or down to meet your needs. Because Nexenta solutions are hardware-agnostic, you can choose the best hardware for your budget and leverage existing in-house equipment.

Reduce risk: High performance and data integrity virtually eliminate everyday risk, while hardware-agnostic solutions prevent the future risk of a fork-lift upgrade.

Simplify management: Create and manage storage volumes with ease: Nexenta's single-console management supports an unlimited number of snapshots, granular data recovery, mirroring to alternative installations, plus a wealth of other features.

Enhance performance: Ease of administration and reliability mean that NexentaStor can increase your staff productivity, reduce errors , and make the system as a whole run much faster.

Summary

NexentaStor delivers data security with reliable archiving and backup for today's fast-growing data stores. With NexentaStor, you can ensure your data is available and protected – all at a price your organization can afford.

For more information, please visit www.nexenta.com.