nexenta™
Global Leader in Software-Defined Storage.

NexentaEdge Datasheet

Next Generation scale-out storage for your Next Generation Cloud Applications

NexentaEdge is Software-Defined Storage for multi-petabyte scale repositories, delivering high performance Block and Object services and truly disruptive storage economics thanks to cluster wide inline deduplication.

The relentless growth of unstructured data creates a need for solutions specifically designed to scale and run on low cost shared-nothing clusters of industry standard servers, delivering highly available, highly durable and extremely cost effective storage. NexentaEdge is ideally suited to meet these requirements and support the following use cases:

openstack™ CLOUD SOFTWARE

A single NexentaEdge cluster delivers Cinder Block, Swift and S3 Object storage services required by OpenStack clouds. Horizon management plug-in simplifies storage management and capacity planning.

NexentaEdge delivers the high performance iSCSI Block services required by CloudStack and Citrix CloudPlatform infrastructures. Cluster wide inline deduplication minimizes the amount of capacity used to store virtual machine images and application data.

cloudstack
open source cloud computing

Chunk level cryptographic checksums, S3 object API and unmatched storage efficiencies provided by cluster wide inline deduplication make NexentaEdge an ideal platform for petabyte scale backup and archive repositories.

- Software Defined
- Petabyte Scale
- Inline Deduplication
- Auto Optimized
- Built for Cloud

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NexentaEdge Features Overview

Next Generation Design

- Scale out, shared nothing architecture deployed on Linux standard x86 servers
- Fully distributed data and metadata management
- Multi-petabyte scale with low management overhead
- Future proof design, ready for emerging storage media such as Key/Value drives, Ethernet drives and Shingled Magnetic Recording drives

Data Protection & Optimizations

- Cryptographic strength hashing and checksums of all data, with automated self-healing for ultimate data durability and integrity
- Inline deduplication is performed on all written data across the entire cluster. Variable size chunking ensures maximum capacity savings
- Object level replication policy control allows the application to set data specific protection levels

High Performance

- Cloud Copy On Write of all content enables high performance data and metadata management
- Replicast network protocol optimizes network utilization, minimizes data transfers and delivers faster response times
- Flexhash dynamically optimizes data placement and data access and automatically ensures effective balancing of performance and capacity loads across the cluster

Host Operating System Support:

- Ubuntu 14.04
- CentOS 7.0
- RHEL 7.0

Host and Network Requirements:

- Standard x86 servers
- 10GbE switches

Highlights:

- Next-Generation design
- iSCSI with Cinder support
- Swift and S3 Object API
- End to end data integrity protection
- Cluster wide inline deduplication
- Fully distributed architecture with no single point of failure
- Automatic load balancing based on least utilized resources (CPU, network, storage)
- CLI and Horizon management plug-in

Nexenta develops, integrates and tests its software solutions with leading solutions providers including the below partners:

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