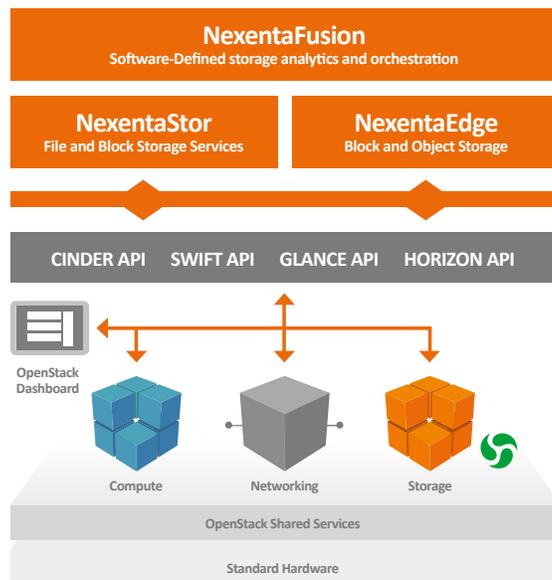


Unified Software-Defined Storage for OpenStack Datasheet

Complete Storage Solutions for Block, File and Object in OpenStack Environments

Nexenta delivers secure, high performance, ultra-scalable cloud and virtualization optimized storage software solutions on industry standard hardware, augmenting the OpenStack proposition of no vendor lock-in and true Software-Defined infrastructure.

Nexenta Software-Defined Storage solutions have been integrated into OpenStack since the Essex release and since then have expanded in their functionality and support as OpenStack evolves. Nexenta block, file and object storage solutions are ideal for creating flexible, easy to manage and efficient to operate OpenStack cloud.



The support for OpenStack currently spans across multiple aspects of the stack:

- Block storage with upstream driver for Cinder
- Object storage supporting Swift APIs
- Image repository support through Glance
- Integrated management through a Horizon plug-in
- Serviceable via Rest APIs.



Software Defined



Built for Private & Public Cloud



Data Reduction



Seamless Integration



Petabyte Scale

Visit us online at nexenta.com

Nexenta Platform Details

NexentaStor

Provides a superior scale-up storage solution.

Performance

Storage typically bottlenecks Cloud performance. NexentaStor provides customers with unsurpassed levels of performance through:

- Improved performance via IO pooling
- Industry leading memory based caching
- High performance inline data reduction.

High Availability

NexentaStor offers a proven HA solution with transparent failover for NAS and SAN. NexentaStor provides periodic asynchronous data replication service that can provide remote data copy services for backup, disaster recovery, and archiving.

OpenStack Integration

- NexentaStor seamlessly integrates into OpenStack to provide File and Block services for virtual machines
- NexentaStor provides block storage using OpenStack Cinder and integration into OpenStack Glance for boot image repository services
- The NexentaStor drivers are supported for both OpenStack Icehouse and OpenStack Juno releases.

Unified Storage for OpenStack

Nexenta provide best of breed storage solutions for OpenStack, and uniquely combines object, block and file via a modular approach into one complete storage stack for an OpenStack cloud. Nexenta's scalable storage solutions provide multiple access methods, thus allowing isolation of compute and storage resources to enable full mobility of workloads inside the OpenStack cloud.

NexentaEdge*

Delivers Cinder Block and Swift/S3 object storage services. Integration through a Horizon management plug-in simplifies storage management and capacity planning. Key technologies that make NexentaEdge unique include:

- Global inline deduplication and compression across petabyte-scale clusters
- Cloud-Copy-on-Write (CCOW), a completely unique object storage system enabling high performance data and metadata management optimized for Cloud-based architectures
- Replicast network optimization minimizing data transfers and improves response time to deliver high performance IOPS
- Flexhash dynamically optimizes data placement/access to load balance stored data across all object stores and improve performance.

NexentaFusion*

With NexentaFusion, Nexenta builds on its vision of the Software-Defined Data center by delivering Analytics and Orchestration Software that automates arrangement, coordination, and management of complex compute systems, data stores, and services without the need for administrators to pre-define the nature and placement of data.

*Available 1H 2015



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