

FlashNAS™ Appliance -- Windows® Storage Server 2008 R2

Affordable, performance optimized NAS with FlashDisk® RAID

Scalable Shared Storage, Snapshot Backups & De-duplication for Network Servers

FlashNAS Delivers Simple & Affordable NAS

FlashNAS is a 2U or 1U file serving "appliance" based on Intel dual 5500 Quad-Core Xeon processors that runs Microsoft Windows Storage Server 2008 R2. It enables flexible and easy deployment of FlashDisk arrays to multiple servers and hundreds of users over your existing LAN infrastructure. FlashNAS serves files to any Windows, Unix and Mac OS-X client without added hardware, software or rebooting the client.



FlashNAS appliances support all FlashDisk storage including Fibre Channel, SAS and SATA disks. Storage is shared by all users: No Client Access Licenses (CALs) needed.

Up to 426 TB with Snapshots, Speed, De-duplication and Intuitive GUI

FlashNAS scales to 426 TB of FlashDisk storage per RAID set. It supports any mix of SATA for low cost secondary storage, SAS for high performance yet cost effective everyday primary storage and Fibre Channel RAID arrays for highest performance, scalability and availability. FlashNAS let you create frequent, scheduled snapshot backups to protect data and provide rapid data restores using Windows Volume Shadow Copy Services (VSS). For maximum performance, FlashNAS is optimized for file serving and is 30% faster than a standard Windows Server. Redundant failover FlashNAS configurations are available for using Microsoft high availability software.

FlashNAS offers built-in data de-duplication featuring Single Instance Storage (SIS) that saves typically 35% of the storage space by eliminating duplicate files - linking them instead of storing them multiple times. To simplify management, FlashNAS has an intuitive, web-based GUI that simplifies storage management. It supports 64 point-in-time snapshots per volume, folder based quotas, native support for Windows, Linux and UNIX environments and file sharing across multiple operating systems.

FlashNAS includes: Support for block storage as well as file storage using iSCSI target mode; Digital Archive automated hierarchical file migration to lower cost storage; Support for PC and MAC clients for media, research, education and collaboration; Optional XOSoft for local and remote real-time, one-way, bi-directional and many-to-one replication. Companion products include accessories to quickly assemble a complete data center including EcoCabinet,™ EcoSwitch,™ EcoUPS™ and EcoHBA.™

FlashNAS

High Performance

- Intel 5500 Quad-Core Xeon 64-bit CPUs
- Intel I/O Acceleration Technology
- 4 GB to 96 GB - DIMM slots
- 1 Gb Ethernet ports: 4 or 8
- 10 Gb Ethernet ports: 2 or 4
- Up to 426 TB storage per RAID set
- 30% faster than Windows Servers
- De-duplications saves 35% storage
- Shallow 17.7" depth - superior cooling
- Redundant H/A failover option available

Compatibility

- CIFS/SMB, NFS, AFP volumes
- Seamless UNIX interoperability
- Compatible with storage management tools like Tivoli, OpenView
- Fibre Channel, SAS, iSCSI interfaces
- Supports standard anti-virus software

Storage Management Software

- Easy set up and administration with intuitive web-based GUI
- Set up and manage storage

Management & Support

- Ethernet, SNMP, TELNET
- On-site installation
- 24x7 service available

Economical

Priced to compete with any quality NAS, the FlashNAS is a great value since it is configured for use in environments where the storage and servers are important to the enterprise. It supports hundreds of active users - without Client Access Licenses (CALs) - for big savings.

Systems Integration

FlashNAS combined with FlashDisk storage and accessories including switches and UPS - and even racks - enables IT managers to obtain an integrated solution from a single vendor that supports the entire hardware infrastructure. IT managers concentrate on the applications and the business value created.


Single Source Support

The entire integrated solution of FlashNAS and FlashDisk storage and accessories are supported under a single warranty and service contract. The standard warranty includes 24x7 call center support and next day on-site service. Four hour response service is also available as an option.

Specifications

<ul style="list-style-type: none"> •Dimensions •Processors •PCI-E 2.0 Slots •Disk Bays •Power Supplies •Power •Cooling •Front Panel Buttons •Weight •Operating Temperature •Non-Operating Temperature •Compliance 	<p>3.5" High x 17.2" Wide x 17.7" Deep</p> <p>Single or dual Intel 5500 Quad Core Xeon Processors</p> <p>7 available for storage and LAN expansion</p> <p>3; 3.5" SAS / SATA hot swap drive trays</p> <p>Dual redundant high efficiency power supplies w/PFC</p> <p>100 V - 240 VAC, 50 - 60 Hz, 4 - 10 A</p> <p>4 x 4cm counter-rotating fans</p> <p>Power On/Off; System Reset</p> <p>35 lbs fully loaded</p> <p>50° to 95° F (10° to 35° C)</p> <p>-40° to 158° F (-40° to 70° C)</p> <p>UL, CUL, TUV</p>
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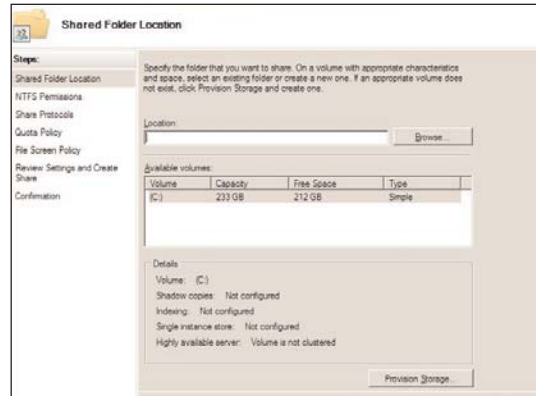
<p>Included functionality: Shadow Copy Service</p> <p>Storage Manager</p> <p>Distributed File System</p> <p>File and Print Serving</p>	<p>Restores deleted or corrupted files within minutes using Shadow Copy of shared folders. Stores up to 64 point-in-time copies per volume and provides the ability to recover previous versions of files.</p> <p>Optimize storage resources by setting quotas at volume, directory, and user levels. Also provides a File Filtering Service to enhance security and optimization of data. Storage usage reports are created to monitor resources.</p> <p>Build and manage a single, hierarchical view of multiple file servers. DFS simplifies management of data on multiple distributed servers and enables Windows Powered NAS software to automatically redirect users to data replicas in case data becomes unavailable. DFS provides replication and load balancing capabilities.</p> <p>Deploy a dedicated file server to address growing storage requirements. Data protection features and support for multiple file protocols is an ideal solution for heterogeneous file serving. Integration with Active Directory services enables data security and ease of management.</p>
<p>FlashNAS Appliance Options FlashDisk Fibre Channel/SATA FlashDisk SAS/SATA XOsoft Assured Recovery XOsoft High Availability Microsoft High Availability</p>	<p>FC-3400 SX-2300 & SX-3400 Provides CDP with rollback to remote FlashNAS Provides manual, scheduled and automatic failover to remote FlashNAS Provides failover to second local FlashNAS</p> 

FlashDisk Disk Arrays for FlashNAS Data Storage

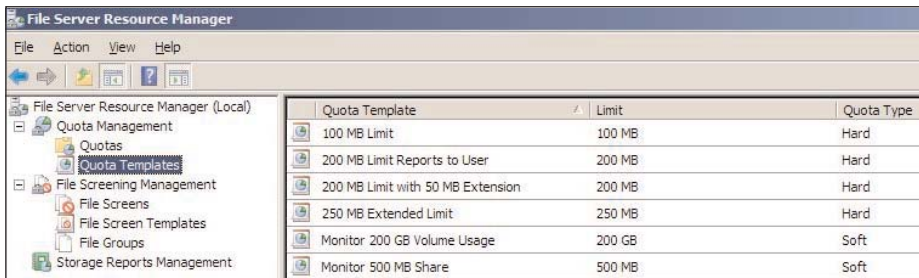


A FlashNAS storage environment can be configured with any FlashDisk product including Fibre Channel, SAS or SATA disk drives for multiple tiers of cost and performance using SAS or Fibre Channel interconnects.

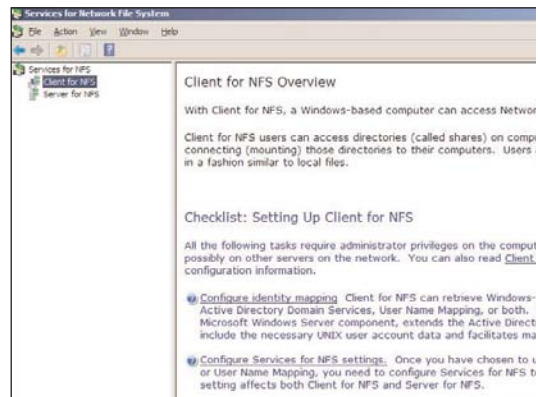
FlashNAS Storage Management



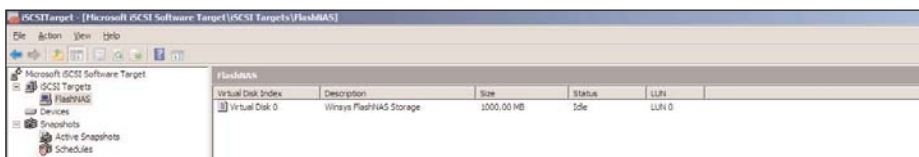
FlashNAS permits shared storage.



Quota limits enable IT administrators to allocate storage to departments as needed.



FlashNAS supports NFS servers and clients.



FlashNAS presents itself as an iSCSI target thus the storage is accessible to all network servers with proper security privileges.

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101 Billerica Ave., Bldg. 5, Billerica, MA 01862
800-325-3700 · 781-265-0200 · fax: 781-265-0201