Dell PowerVault NX3100 Network-Attached Storage

The Dell™ PowerVault™ NX3100 is a capacity-dense, dedicated NAS solution integrated with advanced file-sharing software designed to help smaller offices stay efficient and productive. It's also flexible enough to support applications (block data) to make sure people with limited resources can save time and don't have to manage separate types of storage.

Share up to 576TB of files and applications in your office

The PowerVault NX3100 is a capacity-dense system dedicated for information-sharing of both file and block data. It packs 36TB of internal capacity in a short, 2U chassis using the available 12 hard drive bays. Start consolidating your multiple file servers today by expanding externally up to 576TB using any of Dell's PowerVault and EqualLogic™ arrays.

Network File System (NFS) consolidates all of your file-sharing resources to help improve productivity. Users can now easily collaborate because they can share data across Windows® and non-Windows clients. Through NFS, data can be replicated through Distributed File System (DFS), protected by Volume Shadow Copy (VSS) backup solutions and reported and monitored by File System Resource Manager (FSRM).

Put the latest storage technology to work for you

The PowerVault NX3100 offers the right levels of capacity and storage software to keep you efficient. Choose from high-capacity near-line SAS drives up to 2TB each or higher-performance SAS drives up to 600GB to customize your NX3100 for your environment. Plus, you can expand externally with fast, 6Gb SAS arrays, like Dell's PowerVault MD1200 and MD1220, to dynamically grow your valuable sharing space without compromising performance.

Stay focused on your business with advanced storage features in Microsoft's proven Windows® Storage Server 2008 R2 software. Single-instance storage (SIS) is file-level deduplication that improves file performance and optimizes disk capacity by actively comparing and eliminating identical files. This process is transparent to end users and applications and requires no user intervention.

Setup and manage your information with ease

Don't waste time building file servers from scratch. The PowerVault NX3100 arrives with everything you need to easily share information, saving you valuable time. Dell integrates Microsoft's Windows® Storage Server 2008 R2 with convenient setup wizards, like the Initial Configuration Task tool, to get your NAS up and running quickly with few steps. It seamlessly fits into your current Windows® environment, allowing you to leverage the same management and protection tools already deployed. In fact, Windows® Storage Server 2008 R2 includes unlimited Client Access Licenses (CALs), so you won't have to worry about keeping pace with additional users.

Set quotas, run reports and get visibility to your files and storage statistics with File Services Resource Manager (FSRM). This will help improve compliance and control over your file services. It also helps in planning and implementing future policy changes and the addition of storage capacity to meet your businesses growth. By combining storage allocation, share management for CIFS/SMB, as well as NFS, you gain a single view for all of your file serving responsibilities.

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Consolidate your file servers and make your information sharing more efficient with up to 36TB of internal capacity.

Dell™ PowerVault™ NX3100	Technical Specification
Operating System	Windows Storage Server 2008 R2 (Standard Edition)
File Access Protocols	CIFS, NFS, FTP
Type of Data Supported	File and Block
Form Factor	2U rack-mount system
Processors Supported	Single, quad-core 5506/5620 Nehalem/Westmere processors
Memory	6 GB, 12 GB, or 24 GB DDR3
Internal Storage	Up to 12, 3.5″ 12 SAS, or NL-SAS drives (plus two 2.5″ drives for the OS)
Max Internal Capacity	36 TB raw (with near-line SAS)
Drives Supported	SAS (15K): 450 GB, 600 GB	NL-SAS (7.2k): 1TB, 2TB, 3TB NL-SAS
External Scalability	see NX3000HA (DAS and SAN)
Slots	2x4 PCIe + 1x8 PCIe
Hardware	RAID Levels Factory-installable options: R1 + R5/R1 + R6
Custom-configurable options	0, 1, 5, 10, 50, 6
RAID Controller	H700 (internal drives), H800 (external drives)
Availability	Hot-plug hard drives, hot-plug redundant power, hot-plug redundant cooling
Cluster Support	No
Management	Dell OpenManage™ featuring Dell Management Console
Remote Management	Optional iDRAC Enterprise or Native Java RDP plug-in
Data Protection Features	SIS, DFS-R, Snapshots (VSS), FCI

Simplify your information sharing at Dell.com/PowerVault