Dell PowerVault NX3300 High Availability (HA)

PowerVault™ NX3300 HA provides an affordable solution that offers the simplicity of an integrated Microsoft® Windows® operating system.

Advanced file management software for efficient data sharing

The NX3300 HA appliance offers improved performance and enhanced reliability using the award-winning Dell™ PowerEdge™ 12th generation server tightly integrated with Microsoft Windows Storage Server 2012. With added advanced storage technologies, the PowerVault NX3300 HA is designed to provide an efficient, highly available, clustered storage appliance with enterprise-class features for businesses of all sizes. NX3300 HA can be used as a universal gateway to create a unified storage solution when paired with Compellent™, EqualLogic™ or PowerVault MD3 storage arrays.

Customers can easily manage through a single, familiar interface using the factory-installed Windows Storage Server 2012 (WSS2012) R2 software. NX3300 HA is tightly integrated with WSS2012 R2 and offers performance and versatility in a NAS storage appliance. The appliance provides small business to enterprise-level file serving solutions that are easy to manage with powerful file serving features. The solutions are provided on a mature and multi-generational platform using PowerEdge enterprise hardware.

Put the latest storage technology to work

Dell integrates the best of its PowerEdge servers with the latest Windows Storage Server software for a solution designed to improve reliability and performance. WSS2012 R2 has enabled the Server Message Block 3.0 (SMB3.0) protocol, which can improve performance with multichannel failover and is designed to increase the reliability of application-specific capabilities for Microsoft SQL Server and Hyper-V. Improve efficiency with thin provisioning deduplication and compression to optimize capacity allocation on the NAS.

Windows Storage Server 2012 R2 features

A new feature in Windows Storage Server 2012 R2 is called Work Folders. This feature allows you to Bring-Your-Own-Device (BYOD) so you can access work files from your personal computer or device, while keeping your organization's data safe through centralized controls, encryption and lock screen passwords.

Additionally there are new Storage Spaces functions that include storage tiering, SSD write-back cache, parity storage spaces on failover clusters, dual parity storage spaces, and faster recovery.

An improved Storage Management API adds cluster awareness and remote management for these new Storage Spaces features.

WSS2012 R2 also enhances several of the current WSS2012 features, such as SMB protocol, iSCSI Target, DFS Replication, Deduplication. Changes to Failover Clustering and enhanced support for Hyper-V® have made it faster and easier to implement continuous availability.

Easy management and integration into your environment

PowerVault NX3300 HA provides improved storage capabilities, simplified deployment and easier management than previous generations, while assuring seamless synergy in your existing Windows infrastructure in a cost-effective and high-performance platform. For administrators that are familiar with the Windows Server 2008 R2 OS or Windows Server 2012, implementing this clustered, high availability solution is easy. You can cluster two or more NX3300 appliances for up to a maximum of 64 high availability cluster nodes, allowing the PowerVault NX3300 to grow.

Easy to manage file and block storage solution

Ideal for Windows file sharing environments, offering high availability failover clustering and familiar Windows management

Features	PowerVault NX3300 HA
Operating system	Microsoft Windows Storage Server R2 2012 Standard Edition
File access protocols	CIFS, NFSv4.1, FTP, SMB3.0, SMB Direct (RDMA)
Block access protocols	Leverages shared storage back end for block access; Microsoft iSCSI target
Form factor	1U rack-mount system
Number of processors	1 or 2
Processors supported	1 x E5-2609 2.40GHz, 10M cache or 2 x Intel E5-2640 2.50GHz, 15M cache
Internal storage	Each platform in a clustered configuration 2 HDDs for OS (RAID 1) or 4 HDD for OS (RAID 5)
Max internal capacity	Leverages shared storage arrays attached via SAS, iSCSI or FC
Drives supported	300GB* 10K SAS (up to 4 HDDs)
External expansion	Gateway to PowerVault MD3, EqualLogic or Compellent
RAID type	Factory-installable options: RAID 1 or RAID 5 (PERC H310)
Network connectivity	Gigabit Ethernet RJ45 NDC (Networks Daughter Card) options, with 4x1Gb (value and 1Gb performance configuration),or 2x10Gb (10Gb performance configuration). Additional Ethernet NIC options and FC connectivity available
Slots	Two x16 slots with x16 bandwidth, half-height, half-length One x16 slot with x8 bandwidth, half-height, half-length
Power	Hot-plug PSUs 750W (single PSU on value configuration, redundant PSUs on performance configurations)
Fans	Standard redundant cooling
Availability	Hot-plug hard drives, hot-plug redundant power, hot-plug redundant cooling ECC memory
Management	Windows Server Management interface, iDRAC 7 Enterprise or Native Java RDP plug-in or Dell OpenManage™ featuring Dell Management Console
Dimensions	Height x width x depth: Without rack latches - 42.8mm (1.68") x 434mm (17.08") x 700.5mm (27.57") Without rack latches - 42.8mm (1.68") x 482.4mm (18.99") x 700.5mm (27.57") Weight: 8 drive bay chassis- 18.58Kg/40.96lb
Data protection features	SIS, DFS-R, snapshots (VSS), FCI
Rack support	Sliding ReadyRails™ for 4-post racks; static ReadyRails for 4-post racks, 2-post racks
Regulatory and environmental compliance	Regulatory model: E16S Regulatory type: E16S001

* GB means 1 billion bytes, TB equals 1 trillion bytes and PB equals 1 quadrillion bytes; total accessible capacity varies depending on operating environment.

Global services and support

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

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