Dell DX Object Storage Platform

Efficiently Store, Access and Distribute Digital Content

Information is only as valuable as it is accessible—but keeping data readily available to meet compliance, governance and business intelligence requirements can be cumbersome and expensive. With DX Object Storage, you can finally end the trade-off between cost and accessibility while simplifying your data management. Its intelligent, peer-scaling architecture enables you to store, manage and distribute digital content effectively and efficiently without locking yourself into a costly, inflexible strategy that won't fit your long-term needs. Because the solution is object-based and metadata aware disk storage, you are able to identify and retrieve information quickly and automatically manage data from creation through deletion.

Store content in context

Object storage allows the attachment of metadata, which is additional identifying information, to unstructured data like files, video, and images. This metadata enables automated policy-based management features on the DX Object Storage Platform, such as object-level retention, protection and deletion, eliminating the human errors, access and preservation problems that can increase risk and drive up costs. It also facilitates enhanced discovery for compliance, data analysis and decision-making, enabling you to bring more value from your data.

Massive scale without complexity

You can be confident that DX Object Storage will scale to keep pace with your data growth. Ideal for large-scale digital content and long-term data storage, it empowers your organization to add capacity in amounts as small as 1TB scaling up to petabytes and to billions of objects without the set-up and management complexity and costs of traditional file and block storage. With two different storage node options, you can place clusters in branch/remote offices and replicate to a larger central office cluster. Or you can start smaller and flexibly scale at your own pace, ensuring a perfect balance between capacity and throughput thanks to a flexible, peer-scaling architecture. As a foundational storage tier, DX Object Storage provides access to unstructured data for multiple applications, securing data in one place for risk and cost management and enhancing your discovery and decision-making capabilities.

Access the right files at the right time

Help meet data management and governance needs with policy-based retention and selectable content control permitting only authorized users to reference, alter and delete data. Self-healing functions continuously self-manage the integrity of stored objects to detect and repair errors and automatically reconfigure and regenerate objects without the need for IT intervention. Customizable replication options between local clusters and across multiple sites provide you the control to meet your access and protection needs.

Solutions designed for your unique needs

Dell™ Consulting Services* services can work collaboratively with you to determine a blueprint that will fit within your needs, but ultimately help you meet your data management goals without adding unnecessary cost or complexity. We work with you to automate, standardize and reduce complexity to help improve the efficiency of your IT operations. Dell Consulting Services begin with approximately half-day workshops to identify and prioritize your challenges, introducing well-defined engagements designed to deliver predictable outcomes on defined timelines.

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Store, manage and distribute digital content effectively and efficiently

Cost-effective storage

Align the relative business value of your data with the appropriate storage cost with DX Object Storage which utilizes Dell's standards-based x86 server hardware that is optimized for storage. It is a fully-integrated end-to-end hardware and software solution with power optimization features, such as drive spin-down, to meet specific use-case and cost priorities. The modular design makes it possible for you to purchase storage on demand and easily add, replace or retire nodes without any manual migration requirements – ending the "refresh or renew" paralysis. You can gain control over your capital and are able to make more confident decisions about your infrastructure. When you choose Dell's Object Storage solutions and services, you can get a clear picture of your data—where it's coming from, what it is, and how it's being used by your organizational or business units—so you can implement consistent storage and retention policies without unnecessary costs or sacrificing flexibility and better use this data for operational and strategic decision-making.

Solution ecosystem

The DX Object Storage Platform uses an easy interface that employs simple HTTP and Native API integration. It is supported by a comprehensive and ever-growing ecosystem of independent software vendors (ISVs) who can maximize your investment by leveraging a common object-storage pool for multiple applications. Dell is developing integrations with partners in areas like medical archiving, file, email and sharepoint archiving, eDiscovery and enterprise content management.

A basic configuration consists of one DX Cluster Services Node and two of the same type DX Storage Nodes.

Features	DX Cluster Services Node (DX6000)	DX Storage Node (DX6012S)	DX Storage Node (DX6004S)
Software	DX Object Storage Software	DX Object Storage Software[1]	DX Object Storage Software[1]
Software Features	Content Routing, Selectable Immutability, Network Services, Replicator Services	Object Storage Management, Storage Optimization	Object Storage Management, Storage Optimization
Storage	Six 3.5" SATA (7.2K) Hard disk drives. Available capacities: 250 GB, 1 TB	Twelve 3.5" SATA (7.2K) Hard disk drives. Available capacities: 250 GB, 500 GB, 1 TB, 2 TB	Four 3.5" SATA (7.2K) Hard disk drives Available capacities: 250GB , 500GB , 1TB , 2TB
Maximum Internal Raw Capacity	6 TB	24 TB	8 TB
Peripheral Bay	DVD-ROM	N/A	N/A
Data Protection	RAID 5 through PERC H700 (6Gb/s) with 512MB battery-backed cache	User-defined object replication (no RAID required)	User-defined object replication (no RAID required)
Communication (Standard)	Four embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover	One Dual-Port Broadcom 5716 Gigabit NIC	One Dual-Port Broadcom 5716 Gigabit NIC
Communication (Optional)	Broadcom NetXtreme II 5709C Quad-port Gigabit Ethernet Adapter	Broadcom NetXtreme II 5709C Quad-port Gigabit Ethernet Adapter	Broadcom NetXtreme II 5709 Dual-Port Gigabit Ethernet Adapter
Power	Two hot-plug 870W power supplies	750W non-redundant or redundant hot-plug power supply	One non-redundant 350W power supply Two hot-pluggable redundant 400W hot-plug power supplies
Availability Features	Hot-plug hard drives, Hot-plug redundant power, Hot-plug redundant cooling, ECC memory, Spare Row Single Device Data Correction (SDDC), iDRAC6 Enterprise or iDRAC6 Express, Tool-less chassis, Cluster support	Hot-swap hard drives, redundant power, ECC memory, Quad-Pack LED, iDRAC6 Enterprise or iDRAC6 Express	Hot-swap hard drives, redundant power, ECC memory, Quad-Pack LED, iDRAC6 Enterprise or iDRAC6 Express
Chassis Dimensions	2U Height: 8.64cm (3.40") Width: 44.31cm (17.44") Depth: 68.07cm (26.80") Weight (maximum configuration): 26.1kg (57.54lbs)	2U Height: 8.67cm (3.42") Width: 44.52cm (17.53") Depth: 66.46cm (26.17") Weight (maximum configuration) 29.0kg (63.8lbs)	1U Height: 42.4mm (1.67") Width: 434.0mm (17.10") Depth: 610mm (24.00") Weight (maximum configuration): 15kg (33.02lbs)
System Management	Dell OpenManage™ featuring Dell Management Console Lifecycle Controller iDRAC6 Enterprise (Optional) VFlash (Optional)	BMC, IPMI 2.0 compliant Lifecycle Controller enabled via iDRAC6 Express or Enterprise VFlash – Unified Server Communicator (optional).	BMC, IPMI 2.0 compliant Lifecycle Controller enabled via iDRAC6 Express or Enterprise VFlash – Unified Server Communicator (optional).
Acoustics	Idle:LwA-UL[2] = 5.5 bels, LpAm[3] = 39 dBA	Idle: LwA-UL[2] = 6.4 bels, LpA[3] = 51 dBA	Idle: LwA-UL[2] = 5.5 bels, LpA[3] = 39 dBA
Rail Support	ReadyRails™ sliding rails for 4-post racks, static ReadyRails™ for 4-post and 2-post racks, and optional support for cable management arm	ReadyRails™ sliding rails for 4-post racks, static ReadyRails™ for 4-post and 2-post racks, and optional support for cable management arm	ReadyRails™ sliding rails for 4-post racks, static ReadyRails™ for 4-post and 2-post racks, and optional support for cable management arm
Regulatory and Environmental Compliance	Regulatory Model: E02S Regulatory Type: E02S001	Regulatory Model: E13S Regulatory Type: E13S001	Regulatory Model: E07S Regulatory Type: E07S002

*Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.
[1]During the netboot process, the Storage Node retrieves this image from the Content Services Node and runs it out of memory.
[2]LwA – UL is the upper limit sound power levels (LwA) calculated per section 4.4.1 of ISO 9296 (1988) and measured in accordance to ISO 7779 (1999).
[3]LpAm is the average bystander position A-Weighted sound pressure level calculated per section 4.4.4 of ISO 9296 (1988) and measured in accordance to ISO 7779 (1999).

Intelligently manage your data at Dell.com/datamanagement