

Lenovo Virtualized Storage Server Appliances

Powered by DataCore

Solution Benefits:

- Maximize the value from storage investments, current and future.
- Optimize performance of latency-sensitive applications.
- Automate and centralize storage management.
- Enable “zero downtime, zero touch” availability of data.

SIMPLE, POWERFUL, AND SCALABLE SOLUTIONS FOR BUSINESS-CRITICAL APPLICATIONS

Lenovo™ Virtualized Storage Server appliances, Powered by DataCore™ software, provide a comprehensive and scalable storage services platform designed to maximize the performance, availability, and utilization of your storage assets, no matter how diverse they may be or what topology you’ve chosen.

These software-defined storage appliances offer the following benefits:

- Applications run faster and uninterrupted.
- Pool existing storage and protect data.
- Centralize and automate storage management.

The net result is better performance and availability for databases, VDI, and other applications, both virtualized and physical.

OPTIMIZE EXISTING STORAGE

The Lenovo Virtualized Storage Server appliances, featuring Intel® Xeon® processors, deliver a high-performance, cost-efficient storage infrastructure for applications. The solutions have the following advantages:

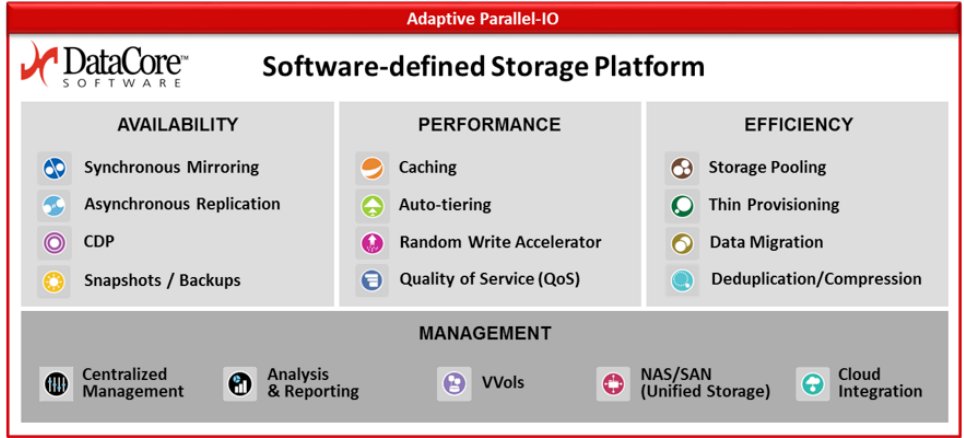
- Automated, high-availability configurations across heterogeneous storage arrays, providing the lowest TCO.
- Easy-to-deploy configurations to match business needs and accelerate workloads.
- High-performance, reliable System x series servers from Lenovo.

USE CASES

	Accelerate Applications	Improve Availability	Add Capacity
NEEDS	Fastest I/O performance and lowest cost-per-IOPS to speed-up high-performance critical applications.	Applications need a highly available infrastructure ensuring 24x7 uptime.	Data continues to grow at an amazing rate, so companies need to quickly and cost-efficiently add storage capacity.
CHALLENGES	Current storage can't meet performance needs of latency sensitive applications; Upgrading storage is expensive and disruptive.	Existing storage wasn't designed to be “always on” or might be prohibitively expensive to add this capability.	Adding capacity to existing storage is expensive and disruptive while some capacity is used inefficiently.
SOLUTIONS	Add DataCore Parallel I/O Technology with ultra-low latency RAM caching and flash storage to increase performance, without impacting operations or budget.	DataCore “zero downtime, zero touch” solution automates failover and leverages existing storage to reduce costs.	Pool capacity across existing storage, increase utilization of capacity and add flash and/or magnetic storage as needed.



The DataCore storage services eliminate storage silos and future-proofs your investment.



Example: Heterogeneous Storage Consolidation and Management in Healthcare

Over the years, a large hospital amassed a variety of storage hardware, with new generations and models of Tier 1 storage accounting for part of the diversity. More recently, they’ve purchased more cost-effective alternatives for Tier 2 and Tier 3 storage from competing suppliers. The medical center runs a number of applications (electronic health records, billing, etc.) with widely ranging SLAs. These make it impractical to manually move data between specific storage devices throughout its lifecycle. Nor can the lean administrative staff possibly learn each device’s unique commands.

The Lenovo Storage Virtualization appliance, Powered by DataCore pools these heterogeneous storage resources under centralized management. Auto-tiering functionality dynamically selects Tier 1 storage for frequently accessed data, migrating it to lower cost/higher capacity Tier 2 and Tier 3 storage as it ages. The Lenovo solution is ideal for realizing the most value from diverse storage technologies and markedly reducing the effort and cost to manage them.

Base Hardware Configurations

System x3650 M5	System x3650 M5	System x3650 M5	System x3650 M5
ENTRY MODEL	MIDRANGE MODEL	ULTRA MODEL	ENTERPRISE MODEL
CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)	CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)	CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)	CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)
Memory 128GB RAM	Memory 256GB RAM	Memory 512GB RAM	Memory 768GB RAM
Network 6 x 10GB iSCSI ports (FC ports Optional)	Network 6 x 10GB iSCSI ports (FC ports Optional)	Network 6 x 10GB iSCSI ports (FC ports Optional)	Network 6 x 10GB iSCSI ports (FC ports Optional)
Storage 3.2TB Up to 16TB managed	Storage 6.42TB Up to 64TB managed	Storage 12.8TB Up to 256TB managed	Storage 30.4TB Up to 1,024TB managed



Learn more at solutions.lenovo.com/heart-of-the-datacenter.

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