Lenovo Engineered vSAN ReadyNode™ Systems

Performance and Resiliency Meets Infrastructure Simplicity

Lenovo System x3650 vSAN ReadyNode™

Lenovo System x3550 vSAN ReadyNode™

Ready, Set, Simplify

With explosive growth of data volume and variety, organizations need highly scalable solutions that enable nimble response to changing demands. IT departments want to better manage volatile workloads and growing data with predictable cost, elastic storage scalability and simplified administration.

With Lenovo vSAN ReadyNodes you can rapidly deploy pre-engineered, tested and scalable storage to meet growing performance and capacity needs. VMware vSAN provides the first step in migrating to a Software Defined Datacenter (SDDC), providing high availability, ease of scale-out, and VM-specific storage policies. The combination of Lenovo servers and VMware software makes this a leading edge, cost-effective storage solution.

Build Elastic Storage

Lenovo vSAN ReadyNodes are delivered in a range of all-flash and hybrid nodes to meet a broad array of workload, performance, and budget needs. VMware vSAN is fully integrated with vSphere, providing the shortest I/O path, bringing data closer to compute, and eliminating the need for installing additional software. vSAN automatically aggregates server HDDs and SSDs in clustered environments to create a shared datastore that can be rapidly provisioned from vCenter. Scale-up is easily achieved by adding more storage drives and scale-out is easily achieved by adding more servers. Lenovo servers with VMware vSphere and vSAN software radically simplifies VM-level storage provisioning and management while dramatically lowering total cost of ownership.

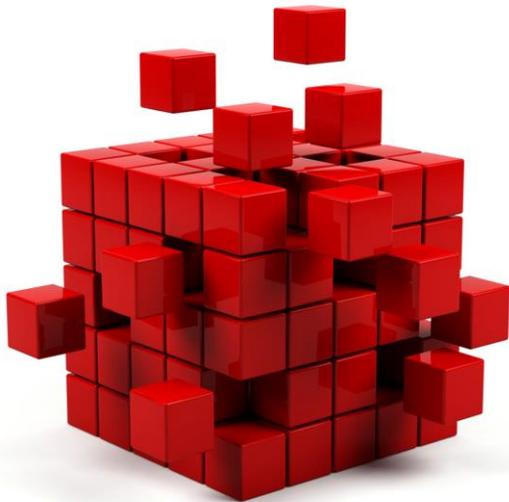## Increase Security, Reliability, and Efficiency

Lenovo vSAN ReadyNodes provide an ideal combination of hardware and software for high performance and exceptional reliability. Powerful Lenovo servers are built for demanding virtualized environments where downtime will not be tolerated. Unique Lenovo technology provides excellent capabilities for VMware applications and growing or volatile workloads through:

- High bandwidth and low latencies for fast performance
- Pay-as-you-grow linear scalability for low total cost of ownership
- Built-in system protections for outstanding system availability and dependency

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Lenovo servers blend outstanding uptime, performance and I/O flexibility for cost efficiency and rock-solid reliability, making it an excellent platform for virtualized environments. These powerful servers offer an energy-smart, affordable, and easy-to-use solution with a pay-as-you-grow design to help lower costs and manage risks. Businesses benefit from:

- Resilient architecture with balanced performance and density ideal for VMware vSAN
- High uptime with redundant hot-swap fans, disks and power supplies
- Predictive failure analysis and light path diagnostics for advanced warning on power supplies, fans, VRMs, disks, processors and memory

Smart Management

Lenovo vSAN ReadyNodes can be rapidly provisioned and easily managed with Lenovo XClarity™ Administrator software. XClarity delivers:

- Ability to deliver hardware like software
- Fast, flexible and scalable hardware systems management
- Integration into VMware vCenter and vRealize software to unify and automate end-to-end infrastructure provisioning and management

Additionally, Lenovo XClarity™ Energy Manager provides you with the information, analysis, and policy-based automation to take control of your data center power requirements.

Foundational Element for the Software-Defined Data Center

The Lenovo Engineered Solutions for the VMware Software-Defined Data Center architecture and VMware Horizon client virtualization can help transform your data center into an agile, automated, and services-oriented data center. Industrial-grade Lenovo Engineered vSAN ReadyNode Systems with Lenovo XClarity provide the agile, elastic, and resilient foundational elements to accelerate your journey.

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Specifications

General Guidance		Lenovo Engineered and Pre-Certified vSAN ReadyNode™ Systems	
Type		VMware Guidance #VMs / IOPs / Storage / CPU	System x3650 Specifications	System x3550 Specifications
Hybrid	HY-8	100 / 40K / 12TB / 2x12 core	2x E5-2630v4, 128GB (8x 16GB), 1x 400GB Cache SSD, 4x 1.2TB 10K HDD, 1x N2215 Controller, Intel X710 CRN[1] SDSVM011172	
Hybrid	HY-6	50 / 20K / 8TB / 2x10 core	2x E5-2650v4, 256GB (16x 16GB), 2x 400GB Cache SSD, 8x 1.2TB 10K HDD, 2x N2215 Controller, Intel X710 CRN[1] SDSVM011072	
Hybrid	HY-4	30 / 10K / 4TB / 2x 8 core	2x E5-2630v4, 128GB (8x 16GB), 1x 400GB Cache SSD, 4x 1.2TB 10K HDD, 1x N2215 Controller, Intel X710 CRN[1] SDSVM010972	2x E5-2620v4, 128GB, 1x 400GB Cache SSD, 4x 1.2TB 10K HDD, 1x M5210 Controller, Intel X710 CRN[1] SDSVM010872
All-Flash	AF-8	120 / 80K / 12TB / 2x12 core	2x E5-2690v4, 512GB, 4x 400GB Cache SSD, 8x 3.84TB SSD, 2x N2215 Controller, Intel X710 CRN[1] SDSVM010572	
All-Flash	AF-6	60 / 50K / 8TB / 2x12 core	2x E5-2650v4, 256GB (16x 16GB), 2x 400GB Cache SSD, 4x 3.84TB SSD, 1x N2215 Controller, Intel X710 CRN[1] SDSVM010472	2x E5-2650v4, 256GB (16x 16GB), 2x 400GB Cache SSD, 4x 3.84TB SSD, 1x N2215 Controller, Intel X710 CRN[1] SDSVM010372
All-Flash	AF-4	30 / 25K / 4TB / 2x10 core	2x E5-2630v4, 128GB (8x 16GB), 1x 200GB Cache SSD, 2x 3.84TB SSD, 1x N2215 Controller, Intel X710 CRN[1] SDSVM010272	2x E5-2630v4, 128GB (8x 16GB), 1x 200GB Cache SSD, 2x 3.84TB SSD, 1x N2215 Controller, Intel X710 CRN[1] SDSVM010172

1. Configuration Reference Number

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Why Lenovo

Lenovo is a $46 billion global Fortune 500 company and a leader in providing innovative consumer, commercial and enterprise technology. Lenovo enterprise systems deliver industry leading performance, reliability and security in virtualized and cloud environments for analytics, database, virtual-desktop, infrastructure and web workloads. Lenovo also offers simplified and extensible systems management tools so you can manage your infrastructure on your own terms. Consistently ranked #1 in reliability and customer satisfaction, the Lenovo enterprise server, storage and networking portfolio provides the hardware for businesses that never stand still.

For More Information

To learn more about Lenovo Engineered vSAN ReadyNode™ Systems, contact your Lenovo representative or Lenovo Business Partner or visit:

lenovo.com/systems/servers