

Lenovo HX Series Healthcare Solution Brief

The Scalable Hyperconverged Solution for Healthcare Operations

Meeting Healthcare IT Requirements with Lenovo Converged HX Series Nutanix Appliance

Healthcare providers worldwide are under constant and growing financial and regulatory pressures, all while striving to improve patient care. In addition, there is a need to become more agile at a lower cost in order to adapt to this rapidly changing landscape. Lenovo's next-generation datacenter technology aligns with the needs of healthcare systems—large and small —by increasing flexibility, reducing complexity, and improving performance while lowering both initial and long-term costs.

The Ideal Platform for Virtualization to Address Healthcare Computing Needs

Lenovo's Converged HX Series platform integrates the industry's most reliable x86 servers with the leading virtual computing and storage software from Nutanix into a single hyperconverged appliance. This solution utilizes the same technologies that power Google and other leading cloud providers. The Lenovo HX Series delivers remarkable ease-of-use, cost savings and predictable scalability for even the most intensive workloads. The HX Series advanced scale-out architecture delivers high availability across all system components so critical applications are always available.

VDI for total user mobility - The Lenovo HX Series is the best way to assure consistent and high-quality experiences across all devices in all locations. For desktop or mobile users, follow-me desktops and clinician desktops allow immediate access to all applications at the point of care. Supported with Citrix and VMware Horizon, it is perfect for Virtual Desktop Initiatives (VDI).

Unique performance architecture maximizes resource availability - Converging compute and the right mix of solid state and hard disk drive storage yields faster application response times and overall operational performance. Logins are faster and data access is accelerated for high speed delivery of PACS images.

Lower costs for operations and equipment - The Lenovo HX Series platform eliminates the need for the expense and management overhead of SAN and NAS arrays. Pay-as-you-grow—adding resources one node at a time—enables growth to match business demands, supports data retention requirements and eliminates major CapEx hits. Standardized, non-proprietary hardware components assure ease of management and lower costs.

Superior disaster recovery capabilities - The Lenovo HX Series delivers exceptional disaster recovery (DR) and continuity of business capabilities via native backup and replication for any hosted VM. Patient data is 100% protected via full replication. All data is de-duplicated and transmitted with byte-level granularity for maximum efficiency and space savings. Regulations—such as HIPAA, PIPEDA, and the requirements of national healthcare systems—can be easily satisfied.

Leadership paves the way

The Lenovo advantage

#1 in x86 server customer satisfaction

#1 in x86 server reliability

A TOP100 global brand

Proven technology, trusted expertise

Open ecosystem, easy-to-integrate solutions

The Nutanix advantage

1st to market with hyperconverged offering

Leader in Gartner's Magic Quadrant for integrated systems

52% hyperconverged market share*

90+% net promoter score

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Feature	IT Benefit	Business Benefit
Integrated compute and storage	<ul style="list-style-type: none"> • Simplified management • Seamless modular building block architecture • More efficient design provides smaller footprint 	<ul style="list-style-type: none"> • Lower total operating costs • Lower capital expenditures • Fewer hardware and software license requirements for greater cost efficiencies
Solid-state memory boot and storage	<ul style="list-style-type: none"> • Highest performance responsiveness of virtual desktops and applications • Faster refresh of virtual desktops • Faster and better handling of high-resolution images 	<ul style="list-style-type: none"> • No delays in log-ins, data entry or data access; better user experience and greater time utilization • Serve more patients with the same staff for better ROI • No down-time during shift changes • Physicians can use radiology viewer for ease of diagnoses and lower costs • Better performance for radiological needs
Redundant data storage/replication	<ul style="list-style-type: none"> • More resilient data backup and disaster recovery • Meets most aggressive RTOs (Recovery Time Objectives) • Addresses virtually any RPO (Recovery Point Objectives) 	<ul style="list-style-type: none"> • Minimal down-time; better continuity of business
Scalable one node at a time and can operate alongside legacy datacenter infrastructure	<ul style="list-style-type: none"> • No forklift upgrades • Bring resources online with no disruption of operations • Enables local compute and storage capabilities for remote and satellite locations with central management visibility and control • Consistent user experience at all locations 	<ul style="list-style-type: none"> • No over-provisioning; only buy what you need when you need it • Growth/migration with zero bottom-line operational impact • Faster performance for better workflow and superior user experience at remote and satellite locations
High availability utilizing VMware AlwaysOn Solution	<ul style="list-style-type: none"> • Predictable performance and superior user experience 	<ul style="list-style-type: none"> • Greater productivity and lower overall infrastructure costs
Separate “in-use” data needs from archives	<ul style="list-style-type: none"> • Faster access/performance; simplified administration 	<ul style="list-style-type: none"> • Lower operating expenses
Small hardware footprint	<ul style="list-style-type: none"> • More efficient rack utilization 	<ul style="list-style-type: none"> • Less demand on facilities; less space required; lower power and cooling expenses
Supports VMware ESXi and Nutanix Acropolis hypervisors	<ul style="list-style-type: none"> • Ease of management 	<ul style="list-style-type: none"> • Healthy ecosystem of proven standards-based products and solutions
Supports Citrix XenDesktop, XenApp, and VMware Horizon	<ul style="list-style-type: none"> • Reference architecture available • Allows for quick deployment • No new learning required 	<ul style="list-style-type: none"> • Fast deployment of healthcare end-user devices
Support for Epic EHR	<ul style="list-style-type: none"> • No new management skills required 	<ul style="list-style-type: none"> • Leverage or compound value of existing software infrastructure
Supports snapshot function	<ul style="list-style-type: none"> • Rapid system or session restoration 	<ul style="list-style-type: none"> • Business continuity; minimal down-time, especially during routine operations like shift changes

Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For More Information

To learn more about the Lenovo's Converged HX Series platform, contact your Lenovo Business Partner or visit:

http://shop.lenovo.com/us/en/systems/converged-systems/hx_series/



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