



Meeting Healthcare IT Requirements with Nutanix Virtual Computing Platform

Even as they work to provide and improve patient care, healthcare providers worldwide are under constant and growing financial and regulatory pressures. Healthcare providers need to become more agile at a lower cost in order to adapt to this rapidly changing landscape. Nutanix's next-generation datacenter technology aligns with the needs of healthcare systems—locally, regionally, and even at the national scale—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

The Nutanix Virtual Computing Platform is the industry's only converged infrastructure solution—integrating compute and storage resources into a single appliance—and utilizes the same technologies that power Google and other leading clouds. With a simple scale-out architecture, Nutanix delivers cost savings and predictable scalability for even the most intensive workloads. Nutanix's advanced architecture delivers high availability across all system components so critical applications are always available.

VDI for total user mobility— The Nutanix Virtual Computing Platform 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. Citrix-ready and certified on VMware Horizon, it is perfect for Virtual Desktop Initiatives (VDI).

Unique performance architecture maximizes resource availability— Converging server and solid state storage yields faster application response times and overall operational performance. Logins are faster and data access is accelerated. Nutanix appliances also deliver optional acceleration of graphics-intensive services for high speed delivery of PACS images and rendering of 3D imaging applications.

Out-of-the-box server virtualization and private cloud enables superior collaboration— Ideal for distributed environments and branch or satellite facilities, Nutanix nodes deploy in 30 minutes or less, providing standardized—yet powerful—infrastructure for healthcare locations lacking onsite IT specialists.

Lower costs for operations and equipment— The Nutanix Virtual Computing 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 Nutanix Virtual Computing Platform 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.

Nutanix healthcare reference customers and partners



The Scalable Solution for Healthcare Operations

- Large hospital and clinic campuses
- Single facility hospitals and clinics
- Multi-location practices
- Satellite and affiliate clinics

Nutanix's modular building-block design enables healthcare organizations to start with small deployments—even operating alongside existing data storage infrastructure—and grow incrementally into very large installations.



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The Virtual Computing Platform

| FEATURE | IT BENEFIT | BUSINESS BENEFIT |
|--|--|---|
| Integrated compute and storage | <ul style="list-style-type: none"> • Simplified management • More “bang for the buck” • More flexible LUN (Logical Unit Number) architecture for maximum resource utilization | <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 desktops and applications • Faster refresh of desktops • Faster and better handling of hi-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 Objective) | <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 “big-bang” capital expense; 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 • Ideal for national healthcare systems |
| 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 vSphere and Microsoft Hyper-V 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 |
| Supports Cerner, Epic and McKesson solutions | <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 VCE solutions | <ul style="list-style-type: none"> • Ease of implementation and integration | <ul style="list-style-type: none"> • No new or updated applications required; leverage existing investment |
| Supports VMware 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 |

About Nutanix

Nutanix provides datacenter infrastructure solutions that are hyper-efficient, massively scalable and elegantly simple. The award-winning Nutanix Virtual Computing Platform has disrupted the market by seamlessly and natively converging compute and storage in a single appliance. Headquartered in San Jose, Calif. with offices and authorized solution providers throughout the world, Nutanix is privately held and backed by top-tier VC firms. For more information, visit www.nutanix.com.