



Nirvanix Enterprise Cloud Storage Solutions

Meeting the Needs of Healthcare Organizations

The electronic health record (EHR) has become central to healthcare organizations' drive to improve patient outcomes and reduce costs. Access to a patient's EHR, including high-resolution images (X-rays, MRIs, CT scans), test results, prescriptions and forms at the point of care and sharing that information within and across medical facilities should make diagnosis more accurate and treatment more effective. This digitized aggregation of patient records is accelerating unstructured data growth at unprecedented rates—data that must be managed and stored securely to address privacy issues—and must be available for rapid access at any time and archived at least for the patient's lifetime.

Faced with pressure to reduce IT complexity and costs and mandated to focus on patient care, healthcare organizations have reached a critical decision point. They can keep purchasing onsite storage systems to house the continually expanding EHR data files or move to the cloud and take advantage of its superior economics and on-demand flexibility.

Nirvanix Enterprise-Class Cloud Storage: A Safe and Secure Healthcare Data Repository

Nirvanix's battle-hardened, second generation implementation of cloud storage solutions removes the objections to cloud deployment, such as security, scalability, availability and support, while enabling healthcare organizations to immediately start taking advantage of:

- Nirvanix's partnerships with numerous vendor-neutral archive products provides a complete, integrated healthcare cloud storage solution
- Usage-based pricing—Lower CapEx immediately
- A Cloud File System with a true global namespace that provides access to images at multiple redundant locations
- Elastic, on-demand storage: expand or shrink storage pool as required—No physical storage systems to buy and manage; No idle storage
- Guaranteed enterprise QoS—No excuses SLAs with up to five nines of data availability
- Multi-level security—Protect confidential patient records
- Global network—Access files from any location
- A "pay on image ingest" model; one flat monthly rate for unlimited uploads, downloads, bandwidth and replication—No maintenance fees; No tech refresh fees

Over 1,200 global customers from SMBs to Fortune 500 companies are already enjoying these benefits, including the industry's leading healthcare organizations. Nirvanix cloud storage solutions not only provide backup, disaster recovery and archiving, but also enable global access to patient information, facilitating collaboration and accelerating the workflow throughout the healthcare delivery system.

The Nirvanix cloud helps to enable compliance with HIPAA and other regulatory acts by featuring SAS 70-compliant nodes, policy-based geo-replication capabilities, robust encryption for data in flight and at rest, and strong password-controlled access. You can manage your institution's storage with a single namespace and offer child accounts that provide designated users with quick and secure access to medical files, expediting both treatment and collaborations. We further reduce the cost and complexity of long-term retention by automatically and seamlessly migrating data to new disks on standard refresh cycles. With Nirvanix, you always have the secure, accessible, cost-effective storage that enables hospitals, clinics, labs, imaging centers, and other healthcare providers to fully realize the promise of electronic medical records.

“The combination of the Nirvanix cloud with a vendor-neutral archival product is a very powerful enterprise solution for the healthcare sector.”

- Tom Trainer



“Nirvanix provides a holistic solution designed specifically for businesses to use without being cloud experts.”

- Tony Asaro



Cloud Deployment Options

Nirvanix is the only company that offers public, hybrid and private cloud storage deployment options under its CloudComplete™ portfolio to meet healthcare organizations' needs—with usage-based pricing for all options.



Public Cloud Storage

Nirvanix's public cloud, the Cloud Storage Network™, delivers battle-hardened, proven second generation technology, enabling healthcare organizations to handle the proliferation of unstructured files, comply with regulatory mandates, and satisfy backup and disaster recovery requirements. With security, ease-of-access, and globally distributed nodes, the Nirvanix public cloud provides the optimal solution for healthcare organizations looking to reduce CapEx through usage-based pricing and benefit from the elasticity that on-demand storage provides.



Hybrid Cloud Storage

Healthcare organizations may choose a hybrid cloud storage configuration which enables them to keep some of their data onsite to meet strict legal compliance requirements and move data to the Nirvanix Cloud Storage Network for increased bandwidth, additional archiving capacity, replication or for optimizing business processes and workflow.



Private Cloud Storage

Nirvanix Private Cloud Storage is designed to enable healthcare organizations to comply with the most stringent corporate or legal data retention policies by storing data within their own facility. This solution is a local instance of a cloud storage node in an organization's data center premises, fully managed by Nirvanix. The Private Cloud solution supports the addition of nodes in any other of the organization's data center locations all federated under a single namespace.

A True Enterprise-Class Cloud Storage Experience

Nirvanix provides an enterprise-class cloud storage experience that healthcare organizations require, featuring:

The Highest Security Levels

To meet the privacy and data security needs of healthcare organizations, Nirvanix implements unparalleled security safeguards and processes at the user, data storage and physical data center levels. These include strong password, token-based authentication; SSL for data transfer and AES 256-bit encryption for storage; and Tier III data center facilities with biometric secured access and SAS 70 Type II certification. Further, Nirvanix invites organizations to visit its data centers and provides a choice of where to store their data.

Infinite Scalability

The Nirvanix Cloud File System™ was designed from the ground up to accommodate massive unstructured content files, such as X-rays, MRIs, and CT scans, and present petabytes of pooled storage as one large global namespace, accessible from any location. It can handle millions of users and billions of files—more than enough to store 200 million images and scanned records from a single healthcare provider, while supporting data ingest rates of up to 10 terabytes per day, per customer. Healthcare organizations can start with as little as one gigabyte and expand that into petabytes or exabytes when business needs require, such as when making an acquisition, continuing to grow their global namespace. Nirvanix simply adds more storage across the node grid to accommodate the growth.

Highest Data Availability and Integrity

Nirvanix offers guaranteed quality-of-service levels, not best efforts, to meet healthcare organizations' data availability and disaster recovery needs. Using Nirvanix's policy-based data replication, guaranteed SLA ranges from the standard 99.9% for one copy, to 99.99% for two copies or 99.999% for 3 or more copies, ensuring that patient files are always immediately available without painful fail-over scenarios.

The Time to Move to Nirvanix Cloud Storage Is Now

With a focus on improving patient outcomes, healthcare organizations no longer have the resources to store and manage the exploding amounts of patient data. The superior economics and flexibility of cloud storage are driving widespread adoption, with the potential for permanently altering the way healthcare organizations purchase storage and manage their data.

The Nirvanix CloudComplete portfolio of cloud storage solutions is healthcare enterprise-ready now. Visit www.nirvanix.com, call 619.764.5650 x330, or e-mail: info@nirvanix.com to get started.

Global Coverage

The Nirvanix Cloud Storage Network™ consists of eight globally-dispersed storage nodes strategically located to optimize access and maximize data availability—U.S.: California (2), Texas, New Jersey; Germany; Switzerland (2) and Japan. Healthcare organizations can move data from one node to another to enhance performance, facilitate collaboration among geographically dispersed users, or duplicate data to ensure availability and recovery in the event of a disaster. The nodes are accessible via a single namespace, which means writing to one location and having access to any one or all of the nodes.

24x7 Service and Support

Nirvanix provides healthcare organizations with the enterprise-class service and support—from initial contact through Nirvanix cloud storage service integration and to post-implementation support. To ensure the highest levels of performance and protection, the Nirvanix Network Operation Control staff monitor the Cloud Storage Network 24x7 and regularly test it.

Choice of Access Methods: One Click to the Cloud

Nirvanix cloud storage is accessible through the standards-based Nirvanix Web Services API, the Nirvanix Management Portal or the Nirvanix CloudNAS® Gateway which supports standard CIFS and NFS protocols. The Nirvanix Cloud Storage Network is also fully integrated with third-party applications, including Panzura, SoftLayer Technologies, Riverbed Technology, CommVault, Front Porch Digital, and Symantec.



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