

Healthcare Solutions Brief

Healthy data's at the heart of modern Healthcare

In the changing world of healthcare, data has become the backbone of modern medicine. Government regulations, reform initiatives, and rising costs of healthcare have forced practitioners to not only produce more diagnostics data but also to retain patient and clinical data at an exponential rate. When combined with new delivery models from remote doctors utilizing video conferencing to home health care to specialized services and therapy, IT staff in healthcare are now focused on technology as much as patients all with a balance of speed and cost. Data is now created from image capturing systems, to electronic medical records, to accounting.



Enter: Nexenta

Nexenta products solve storage performance and data management bottlenecks and deliver cost effective solutions that are highly scalable for a broad range of healthcare solutions. From image retention through virtual desktops, Nexenta provides a cost effective, vendor agnostic storage platform to keep clinicians treating patients and IT staff developing cutting edge solutions.

By Leveraging Nexenta, healthcare customers can:

- Accelerate EMR adoption
- Manage risk and compliance
- Drive data collection for predictive analysis
- Reduce IT costs and complexities

Accelerating EMR Adoption

Government regulations are requiring hospitals, clinics and even local offices to create and store patient data electronically with extended retention periods. This data then needs to be transferable and searchable with ease. Utilizing industry standard hardware, NexentaStor provides for a cost effective way for small offices through large healthcare systems to retain clinical and diagnostic data and scale that storage.

Manage Risk and Compliance

Providing the highest data protection in the industry, NexentaStor is built on a self healing file systems that can provide highly flexible, scalable storage without the risk of data loss. Protection and performance can be combined by utilizing hybrid storage pools that are integrated into the platform, utilizing the latest flash and solid state drives. Long term retention is also an integral part of the NexentaStor solution, with unlimited snapshots and clones both locally and remotely.

Patient record security is a critical component for most healthcare institutions, and utilizing a virtual desktop infrastructure is one of many ways to limit the access to those records to within the datacenter. Utilizing the NexentaConnect VDI editions for VMware View and Citrix XenDesktop give the practitioners access to the records remotely with a lower total cost for the IT staff and higher density and desktop performance. Additionally NexentaConnect allows administrators to analyze desktop performance real-time and provide full desktop pool snapshots and off site replicas to recover any potential disaster in the datacenter.

Drive data collection for predictive analysis

Trends in healthcare are to look at a holistic approach to patient care, with variables such as socio-economic level, environmental variables and pre-existing conditions. This data collection is at the heart of predictive analysis to have proactive healthcare. The ability to diagnose the potential for disease or illness is the Shangri-La of modern medicine. Traditional storage solutions do not provide the flexibility in performance or cost to allow the data mining needed to drive these solutions to fruition. NexentaStor utilizes a flexible drive solution creating hybrid storage pools providing higher performance for the data warehouses without the expense of isolated performance arrays. In conjunction with the use of industry standard hardware at commodity pricing these solutions give healthcare practitioners and researchers a way to move forward with the business of healthcare.

Reduce IT Costs and Complexities

Data storage can be as much as 60% of the IT department budget due to limited choices of reliable commodity solutions, NexentaStor fills this gap. Solutions ranging from high performance image storage for radiology systems to generic file storage to full VDI can be built on traditional server products. These solutions allow for a lower total cost of ownership and a single management for hardware components in the datacenter.

Nexenta Solutions provide for:

- High performance, high flexibility, and advanced features like unlimited snapshots
- On-demand capacity expansion, data protection, and ease of management
- No vendor lock in to provide flexibility to choose the right hardware per project
- Overall I/O per watt is excellent, creating an even greener solution
- Ability to easily and inexpensively add capacity when needed

In summary: Why choose Nexenta?

- Total flexibility on hardware choice
- Slash your storage costs
- Increase data access performance
- Improve data backup and security

Revolutionize your data storage. Choose Nexenta Software Defined Storage

Request a Nexenta Proof of Concept at www.nexenta.com/contact-us



“*The solution from Nexenta has ensured we are at the forefront of technology innovation. Not only does it ensure we have the best performance and scalability, at a more affordable price. It takes away vendor lock in issues and allows for a more flexible infrastructure, now and in the future.*”

Ivo Andreev, Corporate Communications Manager, City Clinics Sofia

To access more information about Nexenta and how it can improve a clinical IT environment go to www.nexenta.com/healthcare to see case studies, reference architectures and download free trials of NexentaStor or NexentaConnect.