DELLEMC

Ensuring quality care for the total person

Holy Redeemer needed a technology infrastructure that would deliver reliable and timely access to critical data for exceptional care—while significantly improving its efficiency and reducing costs

Healthcare | U.S.

Business needs

With data storage demands doubling over five years and an aging infrastructure increasing costs and impacting its ability to deliver a continuum of care, Holy Redeemer Health System turned to Dell EMC to serve communities across southeastern Pennsylvania and in a dozen counties in New Jersey.

Solutions at a glance

- Dell EMC Unity
- Dell EMC Isilon
- CloudIQ
- Dell EMC Data Protection Suite
- VMware vSphere

Business results

- Dramatically improved speed, agility and mobility for the highest quality care
- Five 9s of availability ensure the critical information providers need
- 70:1 dedupe ratio on backups increases efficiency
- CloudIQ enables healthy storage system performance
- Reduced footprint significantly reduces power and cooling costs

"The data we manage has doubled over the past five years. Dell EMC Unity All-Flash has exceeded our expectations for speed, agility and availability."

Tom Stride
Senior Vice President and CIO
Holy Redeemer Health System

Holy Redeemer is a Catholic Health System, rooted in the tradition of the Sisters of the Holy Redeemer. The system's holistic approach is unique—going beyond excellent medical care to also meet the emotional, spiritual and social services needs of those it serves. The range of services includes hospital and doctor's care, home health and hospice services, skilled nursing facilities, personal care, a retirement community, an active living community, low-income housing, and a transitional housing program for homeless women and children.

Cloud infrastructure delivers continuity

To continuously deliver the critical data caregivers need for the highest quality outcomes, Holy Redeemer created a sophisticated private cloud infrastructure integrating compute, storage, networking and VMware virtualization. But with demands increasing exponentially across its 42 locations, Holy Redeemer's IT team turned to Dell EMC Unity All-Flash unified storage.

"The data we manage has doubled over the past five years," says Tom Stride, senior vice president and chief information officer at Holy Redeemer. "Dell EMC Unity All-Flash has exceeded our expectations for speed, agility and availability."

Dell EMC Unity provides high-performance midrange storage with application integration to easily handle mixed workloads, enable efficient inline data reduction and reduce its storage footprint to drive down power and cooling costs. Five-nines of availability ensure that needed patient information is always at the fingertips of caregivers. Migration was quick and easy with the help of Dell EMC VPLEX. And it was all done with no downtime to allow for business continuity for physicians and nurses caring for patients.

Holy Redeemer was also recently part of a beta test of the next generation of Dell EMC Unity XT All-Flash. "Dell EMC Unity XT exponentially increased our efficiency," Stride remarks. "Because it's NVMe-ready, it will significantly move our infrastructure forward and let us take advantage of multi-cloud options in the future."
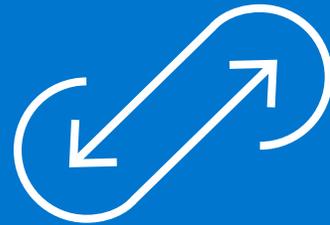
Keeping storage healthy

Dell EMC CloudIQ—a free, cloud-based application that monitors storage health— lets Holy Redeemer's IT team easily analyze and troubleshoot its Dell EMC Unity storage environment from anywhere. The staff receives timely alerts on a smartphone, tablet or web browser, based on powerful predictive analytics and machine-learning algorithms.

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70:1
data reduction
ratio on backup

D∕ELL EMC

Cloud IQ

monitors storage
system health

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Holy Redeemer also relies on Dell EMC Isilon scale-out network-attached storage to manage and protect nearly a petabyte of medical imaging and other unstructured data. With Isilon, the health system has been able to eliminate storage silos and create a seamlessly integrated storage infrastructure.

"The images are easily available to our staff anywhere, anytime," comments Stride. "The real value for us is increased capacity at reduced cost."

Protecting and securing patient data

To protect vital patient data, Holy Redeemer counts on the Dell EMC Data Protection Suite. The comprehensive solution provides backup and recovery for a range of workloads, replicates and handles end-to-end verification of data across Holy Redeemer's two active-active data centers and an off-site backup facility, and contributes to robust business continuity.

The health system enjoys a 70:1 data reduction ratio on its backups, and also benefits from advanced encryption that protects patient data at rest and in motion.

"The Dell EMC Data Protection Suite safeguards valuable and highly sensitive data, making it immediately available to those who need it while assisting with our compliance and auditing process," Stride explains.

Continues Stride, "We're always innovating to keep pace with the latest technologies and address our growing requirements. Dell EMC runs a lot of critical applications that our doctors and nurses rely on to serve patients well."

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Dell EMC Solutions

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