



About Customer

St. Joseph's Health is a world-class hospital and healthcare network offering a full continuum of care, with a special concern for underserved populations in the northern New Jersey area.

www.stjosephshealth.org

Geo

North America

Industry

Healthcare

Solution Area

Accelerate Core Applications
Activate Real-time Analytics
Power Artificial Intelligence
Enable Multi-cloud
Modernize Data Protection

Products in Use

Evergreen™//Forever
Purity ActiveCluster™
FlashArray™//X
FlashArray//C
Pure1®

About Veeam and Pure

Integrated solutions from Veeam® and Pure Storage® help customers meet the needs of today's application and data-driven world by delivering on-premises, cloud-like capabilities with superior data protection and business continuity.



St. Joseph's Health Delivers Secure, Real-time Care

Jesse Fasolo knows firsthand how technology can impact health outcomes. Serving as the Director of Technology Infrastructure and Cyber Security and the Information Security Officer at St. Joseph's Health, he replaced his aging storage with Pure Storage and laid the groundwork for a more data-driven healthcare organization.

He then set his sights on cybersecurity. With frequent threats rising in complexity and intensity, Fasolo calculated it would take 247 days to recover from an attack. He decided to expand the Pure footprint, adding robust data protection capabilities that could have the hospital up and running again in no time—if needed.

“The threat of ransomware in healthcare is not just costly and inconvenient, it's potentially life threatening. Pure Storage has the right technology to take us into the future and helps mitigate risk to our organization.”

JESSE FASOLO,
DIRECTOR, TECHNOLOGY,
INFRASTRUCTURE & CYBER
SECURITY, INFORMATION
SECURITY OFFICER,
ST. JOSEPH'S HEALTH

Impact on St. Joseph's Health



Minimizes interruptions to hospital operations and patient care



Fosters ongoing healthcare innovations with AI, analytics, and the cloud



Allows clinicians to access medical data in seconds, reducing wait times

Challenges



Recovering from ransomware attack would take 247 days on old storage



Daily issues with system performance slowed down clinicians and IT staff



Hospital was unable to make the most of real-time data for patient care

Results



Restores operations immediately with immutable SafeMode™ snapshots



Cuts email backup time by 98%, lowers IT maintenance time to 1 hour/month



Harnesses AI to drive efficiencies, speeding diagnosis and treatment

A Solid Storage Investment to Build On

When Fasolo joined St. Joseph's Health, the existing IT foundation was anything but future-ready, and storage was a critical piece of the puzzle. At the time, legacy systems caused headaches for IT and frustration for clinicians.

"We battled fires every day just to keep systems running," he says. "Something as simple as a mass email with a PDF could cut into performance, keeping patients waiting to be admitted or doctors waiting for lab results."

His initial decision to invest in Pure Storage FlashArray//X turned out to be a wise one, yielding immediate improvements in the performance and reliability for clinical applications, email, analytics, Citrix VDI, and more. Just as importantly, it positioned Fasolo to deal with the other big bullseye on the hospital's back.

"The threat of ransomware in healthcare is not just costly and inconvenient, it's potentially life threatening," says Fasolo. "Pure Storage has the right technology to take us into the future and helps mitigate risk to our organization."

Enabling a Speedy Recovery

Fasolo added a Pure FlashArray//C with Veeam for backup and recovery. In the event of a ransomware attack, St. Joseph's Health can recover instantly using immutable snapshots from Pure SafeMode — which is also enabled on the hospital's FlashArray//X arrays. The Veeam integration provides rapid restore capabilities for the hospital's VMware data, and allows it to recover from both the primary array and FlashArray//C.

St. Joseph's runs daily backups and snapshots every 15 minutes. Email backups take two hours instead of four days. If there is an outage in one data center, systems continue to run seamlessly. Purity ActiveCluster enables redundancy across multiple locations to create a true active-active virtual solution. And login times for users have gone from minutes to seconds.

"In healthcare, every second counts," says Fasolo. "With Pure, we can complete backups with zero impact on crucial systems. This saves clinicians and those who support them a lot of time over the course of a day so they can focus on delivering the best patient care."

Fasolo also plans to start moving workloads to the cloud — a cost-effective way to archive data for compliance purposes. Pure's collaboration with Amazon Web Services (AWS) makes it easy for St. Joseph's to optimize the AWS cloud for backup and disaster recovery, application and data migration, and development testing.

Front-line, Real-time Data to Improve Patient Outcomes

The Pure infrastructure enables St. Joseph's to elevate patient care by harnessing growing data volumes and the power of AI within some of its clinical applications. For example, in radiology, AI reads images, identifies anomalies, and makes recommendations to the specialist for expert evaluation, improving read accuracy and hastening treatment. Operationally, St. Joseph's queries live data to track everything from revenue trends to hospital utilization rates and patient status during the pandemic.



“Pure has been the most solid piece of infrastructure that St. Joseph’s has acquired. With its resiliency, dependability, and uptime Pure has exceeded all expectations.”

JESSE FASOLO,
DIRECTOR, TECHNOLOGY,
INFRASTRUCTURE & CYBER
SECURITY, INFORMATION
SECURITY OFFICER,
ST. JOSEPH’S HEALTH

Fasolo expects Pure to underpin even more analytical capabilities. And despite the growing demand for support, St. Joseph’s has reduced its overall data center footprint and power and cooling consumption — going from four racks of spinning disk to a fraction of a rack.

“Pure’s compression technology was a big selling feature for us and aligns with our goal for energy efficiency and greener outcomes,” says Fasolo. “I’m now in the position to say ‘yes, we can support that’ to just about anything the organization requires.”

Building a World-class Team Through IT Innovation

Beyond supporting the health of its community, St. Joseph’s strives to maintain an enjoyable work environment as well. Pure is a big draw when talking to potential candidates; many come from legacy environments and want to work with cutting-edge technologies.

New staff members onboard with Pure, which is easy to learn and delivers instant productivity gains. Pure1, coupled with an Evergreen//Forever subscription, make it virtually hands-free to monitor, maintain, and modernize storage via non-disruptive, investment-protected upgrades.

“Pure essentially manages itself,” says Fasolo. “We went from having daily issues before Pure, resulting in hours and weeks of work for multiple team members, to a maintenance window of about one hour per month.”

These gains in staff productivity have Fasolo eyeing what’s next. This includes moving the hospital’s PACS environment and vendor neutral archive to Pure, leveraging Pure Cloud Block Storage on AWS and Evergreen//One for cost effective and flexible data portability in a hybrid cloud environment.

“Pure has been the most solid piece of infrastructure that St. Joseph’s has acquired,” says Fasolo. “With its resiliency, dependability, and uptime, Pure has exceeded all expectations.”

purestorage.com

800.379.PURE

