

# Modern, high performance, cost-effective image storage and archive solution

## The challenge

In order to speed diagnosis and patient care, healthcare technologies continue to rapidly evolve. Advanced imaging systems, including digital modalities such as MRI, CT, and PET scans, are producing higher resolution images to enhance the accuracy of clinical decisions. As the number of these systems grow throughout each healthcare system, and the number of images being produced increases, imaging data is growing at an increasingly rapid rate. Hospitals and clinics are managing many more and much larger imaging studies, which need to be highly available across departments and remote facilities. In addition, many hospital systems have multiple PACS vendors and may use, or plan to use a VNA for image archiving.

To meet these challenges, healthcare systems require a modern data storage solution that can handle new technologies, growing image capacities, and collaboration requirements.

## Qumulo enterprise-proven file storage solution

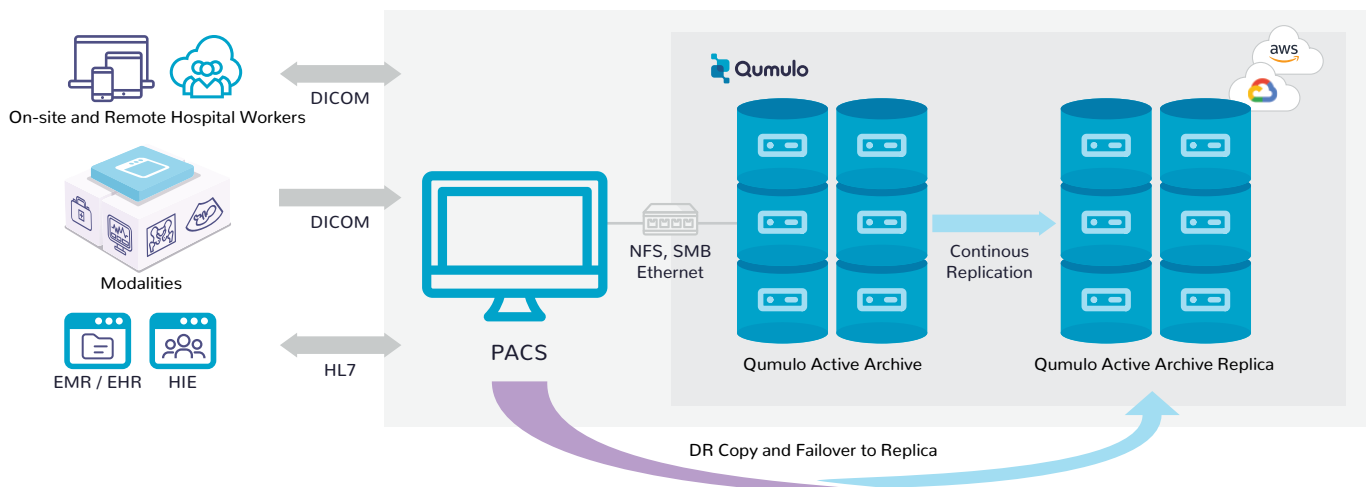
Qumulo offers a fast, cost effective, and secure image storage and archive solution, to manage and retain the massive data volumes generated by imaging systems today. Partnering with the leading PACS providers, Qumulo delivers a complete and trusted enterprise imaging solution that consolidates storage while providing fast, reliable access.

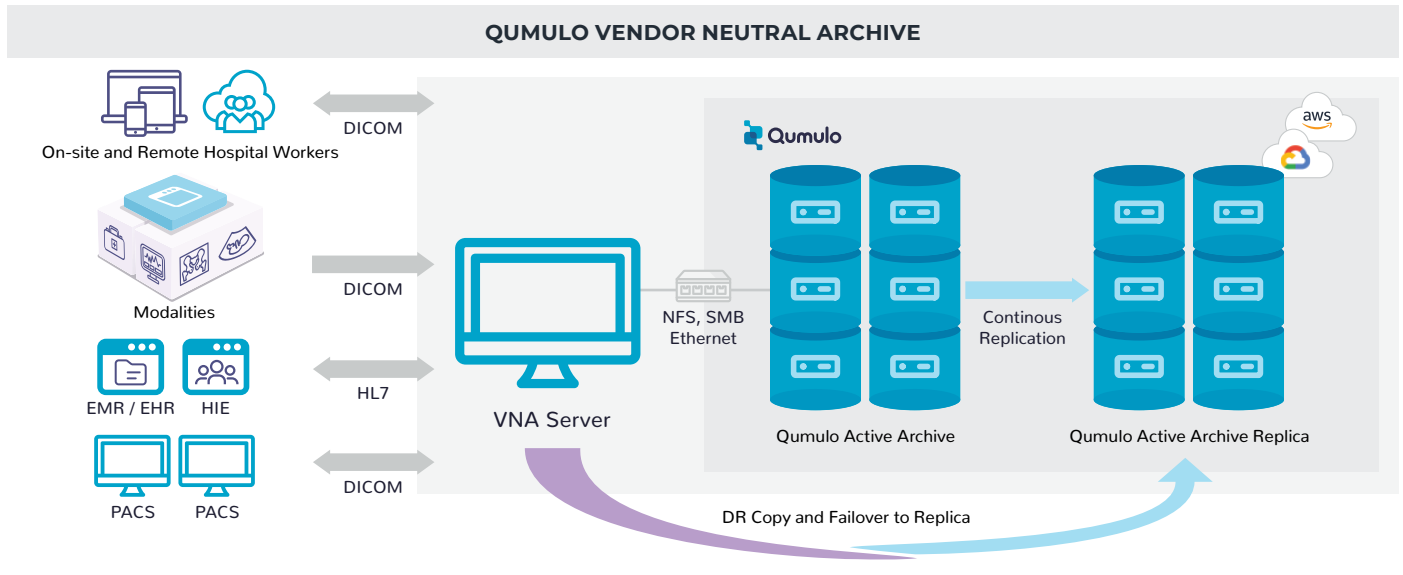
Qumulo provides simple scalability and enterprise data management across on-prem data centers, as well as offering the option to leverage cloud environments. Qumulo's fast, accessible solution speeds patient services and reduces administrative storage costs.

## SOLUTION BENEFITS

- Fast, cost-effective, secure image storage and archive
- Optimized for leading PACS and VNA providers
- Easy to manage, scale, and deploy: on-prem, hybrid, or cloud
- Fast, unified data accessibility to improve workflows
- Maximize IT investment with file storage efficiencies
- Retain and secure data with enterprise protection and replication
- Manage growth and reduce storage cost with real-time analytics
- Single solution provides a path to the cloud

### QUMULO PACS ACTIVE ARCHIVE





## Unified fast access to speed workflows

The Qumulo file storage system is simple to deploy, manage, and scale. With Qumulo's single namespace, healthcare organizations can unify access to the PACS archive, as well as simplify and reduce the cost of data management. Accessible through NFS and SMB protocols, Qumulo's file storage fits perfectly into healthcare environments and integrates with existing network clients.

Qumulo's flash-first hybrid architecture and intelligent caching technology optimizes performance for healthcare organizations. Viewing stations across the healthcare system can count on extremely fast access to all imaging data with the speed of flash. While, the data that is not actively accessed, is moved to more economical hard disk drives (HDD).

## Managing growth is simple. Expand and grow on-prem or in the cloud.

As healthcare data capacities continue to expand and grow, organizations can benefit from a Qumulo PACS archive, which employs a modular, scale-out file storage architecture. Qumulo's software-defined design utilizes clusters of nodes made up of Qumulo hardware, or pre-qualified industry-standard hardware from HPE or Dell.

Managing growth is simple. Just add nodes to the existing infrastructure to increase performance and capacity levels uniformly on-prem, or to multiple cloud environments, when required, with no disruption or downtime.

## Reliable data assurance and security for all medical imaging and clinical data

This solution provides built-in data protection through local and remote snapshots and continuous replication, to ensure data is preserved and always available. In addition, at-rest and over-the-wire encryption ensure confidential records are secure. Working closely with key healthcare industry partners and PACS providers to deliver solutions that assure compliance with government and institutional data privacy and security regulations, meeting HIPAA regulations for compliance, including encryption and off-site copies.

## Real-time analytics for data visibility and growth predictability

Qumulo provides built-in real-time analytics to provide insight across the entire file system, to enable storage administrators to easily monitor storage usage and performance trends. With this superior visibility, healthcare organizations can gain control, reduce overall operational and capital costs, by proactively managing current needs and better predicting future storage requirements.

### ABOUT QUMULO

Qumulo's enterprise-proven hybrid cloud file storage delivers real-time visibility, scale and control of data across on-prem and cloud. Qumulo customers can understand storage at a granular level; programmatically configure and manage usage, capacity and performance; and are continuously delighted with new capabilities, 100 percent usable capacity and direct access to experts.

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