# Storage Management for Epic Systems Greatly Simplified
## Advanced Technology Meets New Requirements While Making Business Operations More Resilient
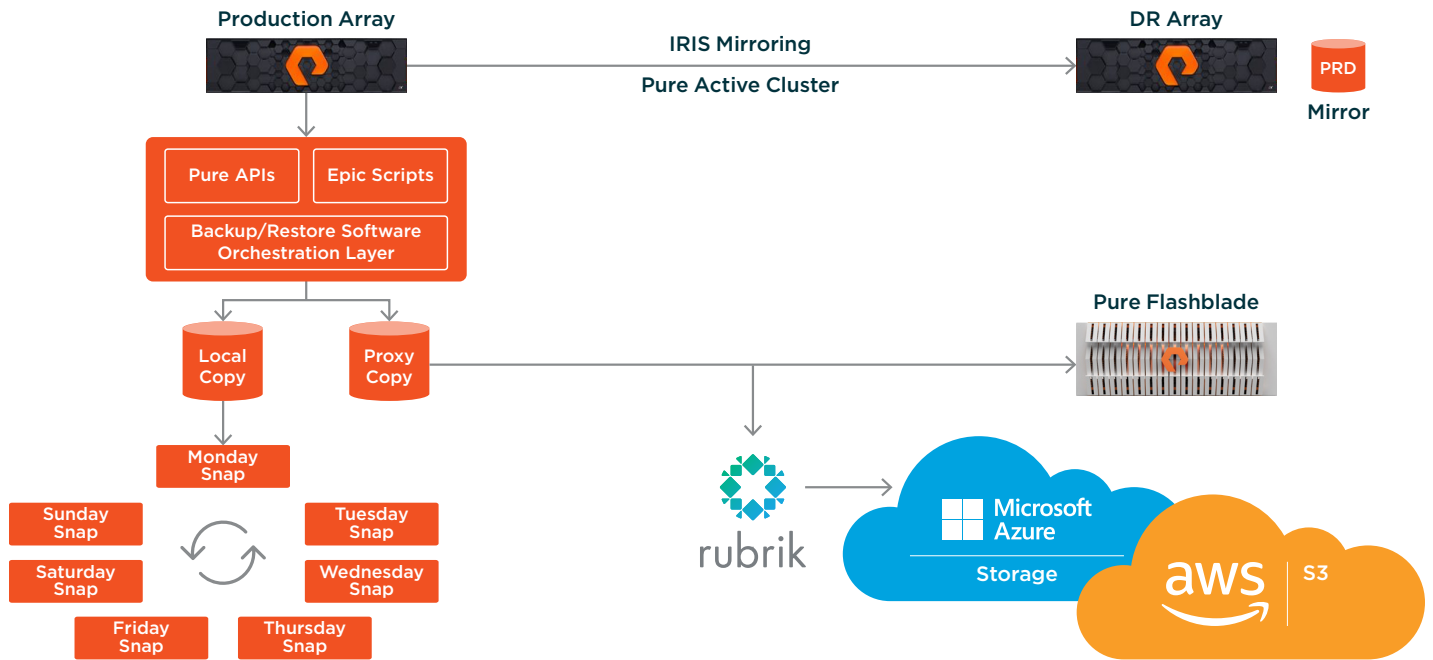
## CHALLENGES

As healthcare organizations continue their digital transformation, fast, consistent access to information is key to improving patient outcomes while making business operations more efficient. Legacy storage and data protection systems often come with complex operations, high management costs, and the risk of downtime caused by ransomware.

Pure Storage and Rubrik have partnered to create a powerful and cost-effective solution for Epic customers that provides outstanding performance for all clinical applications and easily meets the 3-2-1 recommendation for data storage that requires a minimum of three copies of the data on two different storage platforms and one remote copy.

| Key Challenge | Key Benefit | Result |
|---|---|---|
| Performance impact to Epic during backup operations | Pure Storage and Rubrik snapshot integration eliminate performance impacts to Epic during backup operations | No impact to your clinicians |
| Unable to meet the latest recommendations for data protection | Pure Storage and Rubrik combine to easily meet the latest 3-2-1 storage recommendations storing data safely across multiple storage platforms and public clouds. | Helps you meet Honor Role requirements |
| Extended downtime from ransomware | Both Rubrik and Pure offer immutability to reduce the risk from ransomware. Rubrik Radar delivers fast recovery and a clear view as to the scope of the infection. | Reduce risk, improve resiliency to ransomware |
| Unable to easily leverage public or private clouds | Rubrik easily integrates public or private cloud into your infrastructure to provide secure storage and eliminate the management and cost of tape based storage. | Gain the flexibility and benefits of public and private clouds |
| Complexity and management cost of legacy systems | Policy-driven data protection reduces management to a few hours a week, allowing skilled staff to work on high value projects. | Simplify IT operations, improve productivity |
| Finger pointing for support cases in a multi-vendor environment | Rubrik and Pure Storage have a detailed cooperative support agreement to quickly gain access to product and support experts to resolve issues quickly. | Seamless, world class support that resolves any issue quickly |

## HOW RUBRIK AND PURE STORAGE WORK TOGETHER

The solution of Rubrik and Pure Storage delivers outstanding performance for Epic applications while safeguarding data from ransomware and seamlessly integrating public or private clouds into your IT estate. To speed the backup of the Epic Operational Database, Rubrik mounts a Pure Storage snapshot and copies the data in parallel streams using an incremental forever approach. As the Rubrik cluster scales, more nodes are available to copy the data. With the high I/O performance offered by the Pure Storage Flash Array, customers find their backup and restore times are often reduced by half compared to that previously required. Rubrik indexes, compresses, encrypts and stores the data for the period outlined in the policy before archiving to the public or private cloud of choice. Rubrik and Pure Storage have also collaborated on a snapshot integration capability that optimizes the backup process by eliminating the typical VM stun effect and its negative impact on production VMs.

Production Array — IRIS Mirroring / Pure Active Cluster → DR Array — PRD Mirror

Pure APIs | Epic Scripts
Backup/Restore Software Orchestration Layer

Local Copy | Proxy Copy

Pure Flashblade

Monday Snap
Sunday Snap | Tuesday Snap
Saturday Snap | Wednesday Snap
Friday Snap | Thursday Snap

rubrik → Microsoft Azure Storage | aws S3

## WHAT IS 3-2-1?

3-2-1 requires a minimum of three copies stored on two different storage platforms with one copy stored remotely. With Rubrik and Pure Storage, snapshots are taken daily or more frequently and stored locally on the Flash Array for immediate recovery. A proxy copy is also created which is replicated to FlashBlade as well as copied to Rubrik. Rubrik indexes and secures the data, and archives a copy to the customer's cloud of choice.

With this architecture, the 3-2-1 requirement is easily met as more than 3 copies of the data are stored: Rubrik, Flashblade and public cloud are each different storage platforms and the cloud serves as a secure, remote storage location.

## FUTURE-PROOF

Rubrik and Pure Storage are pleased to offer subscription programs that offer seamless, rapid upgrade and expansion without disruption. With Pure Storage Evergreen and Rubrik GO, you'll gain access to the latest technology to keep your apps and clinicians performing at their best.

## ABOUT PURE STORAGE

Pure Storage (NYSE: PSTG) gives technologists their time back. Pure delivers a modern data experience that empowers organizations to run their operations as a true, automated, storage as-a-service model seamlessly across multiple clouds. One of the fastest-growing enterprise IT companies in history, Pure helps customers put data to use while reducing the complexity and expense of managing the infrastructure behind it. And with a certified customer satisfaction score in the top one percent of B2B companies, Pure's ever-expanding list of customers are among the happiest in the world.

## ABOUT RUBRIK

Rubrik delivers a single platform to manage and protect data in the cloud, at the edge, and on-premises. Enterprises choose Rubrik's Cloud Data Management software to simplify backup and recovery, accelerate cloud adoption, and enable automation at scale. As organizations of all sizes adopt cloud-first policies, they rely on Rubrik's Polaris SaaS platform to unify data for security, governance, and compliance. For more information, visit www.rubrik.com and follow @rubrikInc on Twitter.

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