5 REASONS

To deploy the WekaFS™ Modern File System in Your Research Environment

Accelerating Discovery and Improving Patient Outcomes With Next-Generation Storage

Precision Medicine holds great promise as a means for curing diseases such as cancer, diabetes, and many others. Important advancements in healthcare would not be possible without the supporting research being conducted in the life sciences and pharmaceutical industries.

The pace of discovery and quality of patient outcomes depends on rapid access to research and laboratory test results as well as medical records. WekaFS™ is a modern file system that is uniquely built to solve big problems. It provides an easy-to-deploy cost-effective storage solution with the scale and performance required to help make precision medicine a reality.

1 ACCELERATE DRUG DISCOVERY WITH DYNAMIC PERFORMANCE AND CAPACITY SCALING

WekaFS is ideal for the complex application workloads found in life sciences and for managing their associated data sets — billions of files, large and small, with both random and sequential access patterns. WekaFS empowers you to independently and dynamically scale performance and capacity without costly and disruptive forklift upgrades. Automatic load balancing and low-latency networking provide consistent, sub-500 microsecond data access, enabling researchers to be more productive and spend less time waiting for results.

2 IMPROVE PATIENT OUTCOMES WITH LOW LATENCY, FAST ACCESS TO DATA

Improved patient care requires that the right information be available to the right person, in the right place, at the right time. WekaFS has a clean sheet design that ensures all data, no matter how old, is always available to healthcare providers. All data is stored in a single namespace, with older data tiered to lower cost storage as it ages out. When data is required, WekaFS provides lightning fast access utilizing flash technology to serve up the data. There is no need to wait hours or days as older files are retrieved from archived storage.

3 INCREASE COLLABORATION WITH INTEGRATED CLOUD CONNECTIVITY

Researchers must have the ability to quickly and easily share their source data and results with colleagues and partner organizations. WekaFS features a POSIX-compliant, parallel, and distributed file system that allows shared file access to multiple researchers and organizations. Integrated tiering to any S3-compatible object store allows for seamless connectivity to the cloud without special software. All files remain part of the global namespace and appear local to users and applications, and multi-protocol support provides anywhere, anytime data access.

4 PROTECT CRITICAL DATA WITHOUT SACRIFICING PERFORMANCE

Researcher collaboration is a critical part of pharmaceutical discovery; however, patient data must be protected and secure. WekaFS provides full data encryption from the application all the way through to the long-term storage with full key management integration for additional protection. It also provides group and application authentication to ensure no rogue actor is accessing the system — all without sacrificing performance.

5 BECOME MORE AGILE WITH A FLEXIBLE PLATFORM THAT ADAPTS TO YOUR NEEDS

Obtaining project funding is always a challenge, and IT budgets never seem to keep pace with data growth and IT requirements that are constantly changing. WekaFS is a software-only solution that runs on industry-standard servers, reducing costs by up to 80% as compared to traditional storage appliances used as on-premises infrastructure. WekaFS also supports a hybrid cloud environment so that you can leverage the economics and scale of a public cloud for infrastructure agility. You can also move entirely to the cloud as IT demands change; with a simple snapshot to S3 cloud, WekaFS will take care of the complete migration. There is no forklift upgrade and no software or application change!

WEKA

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