

Enabling The Next Frontier of Life Sciences Breakthroughs

Life Science and bioinformatics organizations pursue their research objectives in a myriad of ways, however they are all characterized by massive volumes of machine-generated file data that is pipelined into downstream processes for analysis. The need for efficient, high-performance processing of file-based data is at the heart of innovation and discovery in life sciences.

Whether they are running specialized life science workflows, like: genomic sequencing and analyzing, drug discovery, microscopy, 3D imaging, blood analysis, proteomic and biomedical research, or forecasting and modeling, they are all experiencing an unyielding explosion in the need for more storage and faster performance.

Their challenge is simple: The legacy storage systems they have been using for years are just not able to keep up with the workflow demands for petabyte scale and billions of objects.

Introducing Qumulo Core for the Life Sciences Market

Qumulo Core is a modern scale-out storage system designed from the ground up for the new era of multi-petabyte data scale on premises and in the cloud.

Obtain Real-Time Answers About Data and Storage

Qumulo Core stores tens of billions of files with scalable throughput and is the only product that provides real-time visibility and control for file systems at petabyte scale. Storage administrators and life sciences researchers can instantly see usage, activity and throughput at any level of the unified directory structure, no matter how many files in the file system.

Achieve Cost Containment and Avoid Hardware Vendor Lock-in

Qumulo's modern scale-out storage gives Life Sciences storage administrators the ability to scale storage infrastructure while avoiding hardware vendor lock-in. Without the barriers of proprietary hardware and software, businesses have control and flexibility of deploying Qumulo Core anywhere – whether on-premises, on third-party hardware or in the public cloud.

Maximize Price/Performance and Price/Capacity With Flash-First Hybrid Design

Qumulo Core's advanced software and flash-first approach make use of flexible, fast and highly scalable commodity hardware, including SSD and HDD technologies, to provide unprecedented cost effectiveness and performance.

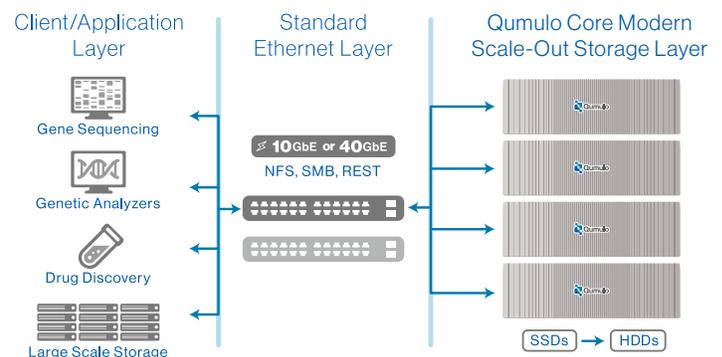
Fine Tuned for the Widest Range of Workloads and Files Sizes

Qumulo Core provides unmatched support for the widest range of Life Sciences workflows. Whether you are dealing with transactional or sequential access patterns and small or large file sizes, Qumulo Core supports them all within a single file system. Qumulo Core delivers industry-leading scalability – from 4 to over 1,000 nodes in a single cluster and 100 terabytes to over 360 petabytes in a single file system.

Qumulo Benefits for Life Sciences

- Provide real-time visibility into data and storage solving data management problems created by first generation scale-out NAS
- Easily and non-disruptively scale a single file system to manage and curate enormous numbers of digital assets
- Drive productivity in the widest range of workflows from life science environments to massive data archives.

Life Sciences Architecture



Benefit from Our Experience

Our products were designed for commercial HPC workflows in the Life Sciences industry. Contact us to discuss your specific requirements.

Contact Qumulo to learn more about our Life Sciences solutions:

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