

FIVE RESEARCH DATA CHALLENGES ADDRESSED WITH A SMART ARCHIVE

Research organizations are dealing with huge volumes of extremely valuable data, most of which must be stored and protected indefinitely. This has created some pointed challenges with many organizations struggling to manage their data across its lifecycle. In this brief, we summarize how a Quantum smart archiving solution based on Quantum's ATFS NAS platform and Quantum's ActiveScale™ Object Storage addresses five key challenges that research departments and organizations are facing.

KEY CHALLENGES ADDRESSED WITH A SMART ARCHIVE SOLUTION

1 Stop Spending Money on Storage You Do Not Need

With the massive growth and proliferation of files across projects and departments, many research organizations don't have good visibility into their data. When storage capacity fills up, organizations purchase more storage. Even if there are duplicate or redundant copies of data filling up storage—or data from specific runs that can be deleted—storage administrators lack visibility into the data itself, so many organizations continue to spend money on storage when a different approach will produce a better ROI. ATFS data classification enables administrators to quickly identify unnecessary or duplicate files so action can be taken to avoid unnecessary storage spend.

2 Accelerate the Research Pipeline While Reducing Administrative Costs

Any research organization has many researchers, and, in many cases, the funding is grant based. Depending on the grant and the project, the needs of those researchers will change over time. Certain researchers will require fast access to their files, while other researchers or departments can retain their data in low-cost protected archive storage, or in the cloud. ATFS makes it easy for administrators to place data based on research needs, optimizing performance for those that need it, and optimizing costs where required.

3 Protect Valuable Research Data on an "Always On" Cost-Effective Platform

Once data is generated, it forms the basis for current research, as well as future research. Because of the value of this data, only the most resilient, most durable storage platform is suitable. ActiveScale Object Storage is a highly durable, highly scalable object storage platform used by some of the world's biggest scientific research institutions as a repository for microscope images and other forms of bioinformatics data.

4 Comply with Grant Requirements

For any research institution funded by grants, the requirements of those grants can vary, in particular in terms of how long the data can be retained. ATFS makes it easy for storage researchers to comply with the requirements associated with these grants.

5 Manage Files Stored in the Cloud

Many research institutions are now using the public cloud as an extension of their on-premise storage. The cloud, whether a private cloud, such as an ActiveScale Object Storage system, or the public cloud, offers elasticity, durability, and scalability that are required as a long-term repository of this type of data. Quantum's solution enables administrators to see a dashboard view of their files and data, and move files to and from the cloud based on automated policy. This makes it easier to manage files stored in the cloud, and also allows departments to extend their storage capacity to the cloud as required.

To learn more about the power of a smart archive, visit: www.quantum.com/smart-archive