

CASE STUDY

MIGRATING AND TIERING VIDEO DATA WITH OBJECT STORAGE AND THE STORAGE MADE EASY INFINIDRIVE

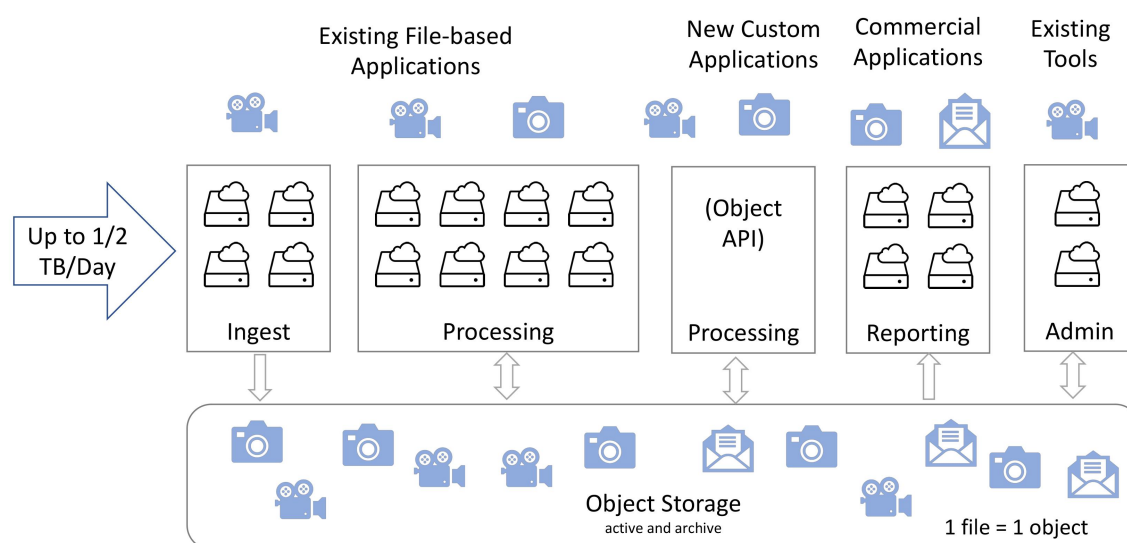
CHALLENGE

A blue-chip services organization receives, processes and shares almost 1/2 TB of new video each day. That's hundreds of thousands of files from thousands of remote cameras. Their issue was that as the volume increased the existing file-based storage platform could not keep up. It would take up to a minute for videos and images to be retrieved, severely impacting worker productivity. The storage also became more expensive to maintain, in part because it was difficult to scale.

The company moved to object storage to reduce costs whilst also increasing performance and scalability. Unfortunately, the custom applications that ingested, processed and distributed video and images were written for the file-based storage. This left a gap in the ability to fulfil the storage use case and to proceed effectively with the migration.

SOLUTION / USE CASES

The solution was the InfiniDrive from Storage Made Easy, which allowed the existing applications to access object storage just as if it was a 'normal' file system. The Drive was installed on existing servers - no additional hardware was required, and access times went from up to a minute to sub-second.



BENEFITS

The Drive enabled the objects to be accessed as files from any of the organization's existing applications and tools, to the applications they appeared as a local filesystem.

- **Infinite Storage** – The organization was able to mount their entire object storage platform as a single namespace, a single filesystem, that includes their entire archive with tens of millions of files. This was critical for compatibility with existing applications that needed concurrent access to current and historical images. The InfiniDrive cached folder metadata as needed to provide snappy performance browsing and accessing folders from deep and wide folder hierarchies of millions of objects. Some individual folders contained over 200,000 objects.
- **No Migration Needed** - Applications can access the same data via either object or file APIs. There was no need for the company to migrate applications (from using files to using objects) to take advantage of the benefits of object storage. The file protocol also maintained Windows case insensitivity - the drive seamlessly stored objects using their original case.
- **Snappy Performance** – The business runs many different applications with the Drive where performance is essential. Incoming videos in batches of thousands are uploaded quickly in parallel streams, and web applications provide immediate feedback to dozens of users editing videos and images. Files are downloaded quickly or served from a local cache.
- **Easy Management** – Since the Drive presents objects in a hierarchical filesystem, they can be manipulated using any Windows application or tool. The company runs, for example, Robocopy, Windows File Explorer, Windows batch scripts and custom .Net applications that can access to their object storage platform without modification.

ABOUT

STORAGE MADE EASY®

The Storage Made Easy Enterprise File Fabric™ enables IT to regain control of "cloud data sprawl" to unify on-premises and on-cloud files into a single easily managed converged infrastructure with policy-based controls for governance, audit and security.

The File Fabric solution provides a "blanket" enterprises wrap around all their data: on premises, within public and private clouds, as well as on third-party software vendor clouds (SharePoint Online and Salesforce for example).

Customers use the SME File Fabric product to unify corporate data to enable workgroup collaboration with universal controls for security, encryption, audit, and data access. Companies will have access to a greater understanding of where and how sensitive data is stored, transferred, and accessible with particular focus on how companies are able to police and audit data to ensure enforcement of the General Data Protection Regulations (GDPR) in addition to other regional data legislation.

USA +1 415 477 1053

UK +44(0)2086432885

EU +41 435 080 078

sales@storagemadeeasy.com

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