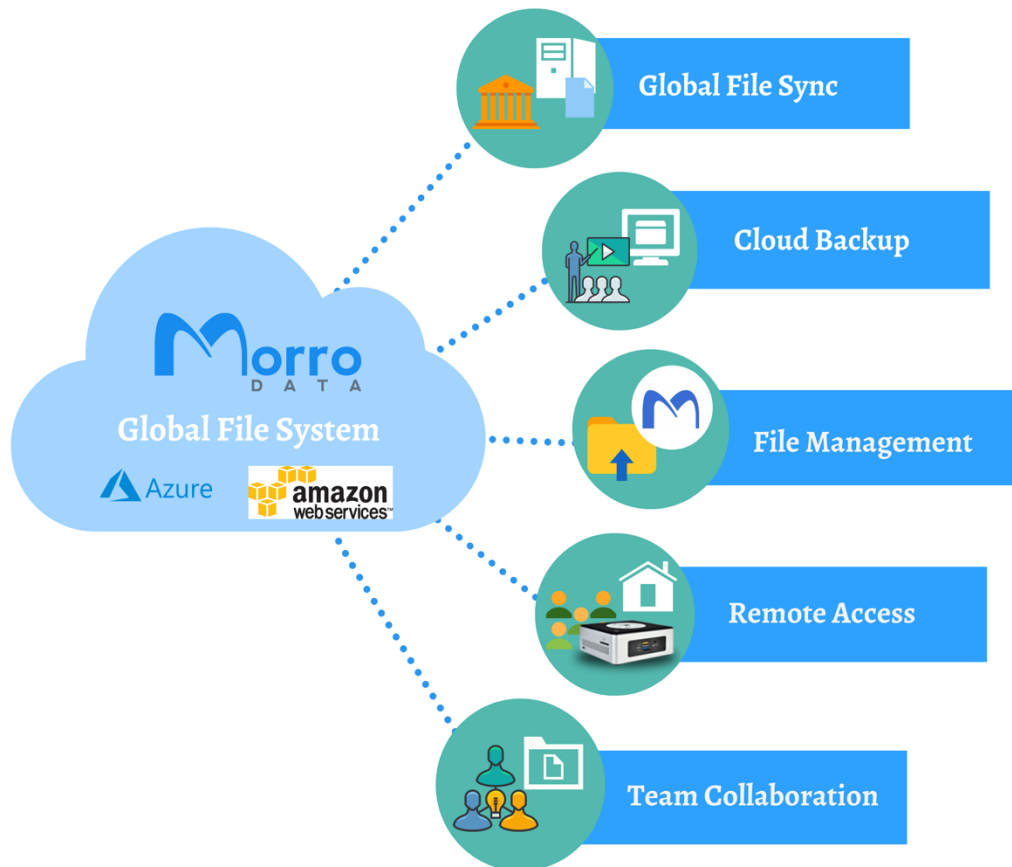# Morro Data Empowers Collaboration in Higher Education

Hybrid-Cloud Global File Services for Education

Hybrid-Cloud Global File Services for Education Remote Team Collaboration is becoming a requirement for enterprises as well as in higher education. However, the rapid increase in data size poses a challenge for the IT department when trying to design for efficient remote collaboration. The Morro Data hybrid cloud solution brings the data to wherever the user is, rather than requiring the user to access the data remotely. This solution brief explains how Morro Data's hybrid cloud architecture solves these challenges.

- ♦ Cloud-centric Global File System keeps data safe in the cloud and sync anywhere

- ♦ Easy-to-deploy caching gateway to store files locally for fast access

- ♦ Multisite file locking to allow for collaboration and prevent file corruption

- ♦ File versioning to protect against user errors and ransomware

Morro Data's global file system and cloud caching can sync a large amount of data among distributed workplaces. This also increases performance hundredfold compared to using slow remote VPN access. Instead of being physically present at the university, professors can now work and collaborate from home with the CacheDrive and bring the cloud to them while maintaining data consistency. Files are first locked, synced to all CacheDrives, and unlocked. Virtual Machine (VM) CacheDrive hosted on AWS allows scaling and integrating existing local hosted cloud resources, leveraging the CacheDrive and accessibility of the AWS internal networks for various file operations. Students can use Morro Connect to access the university network shares from anywhere, upload or download projects and homework assignments. The global file system presents the latest version to all users while preserving the previous versions, removing the need for manual update management. Morro Audit tracks all file access for record-keeping in a searchable cloud database in the event of user error or for retrospective investigation.

The Benefits of Morro Data CacheDrive

The Power of the Cloud with Network-Attached Storage Performance

CacheDrive Fast
Morro CacheDrive appliance is easy to deploy, offering up to 16TB of high-performance SSD/NVMe cache and up to 10GigE interconnect. VMs are available in VMware, Hyper-V, AWS, Azure.

Low Latency
Latency between application and storage significantly impacts user productivity. With CacheDrive bringing the data to the user, data latency is significantly reduced compared to direct cloud access.

SaaS
Morro Data is a SaaS (Software as a Service). It's pay as you grow. Amazon S3, Azure, Wasabi, and Backblaze are supported through the Morro Cloud Manager, allowing different data tiers with multiple storage providers.

Remote Access
With the Morro Connect app in Windows or macOS, remote users and students can upload/download files without having a local CacheDrive.

Global File Sync
Data is synced in real time to all CacheDrive locations in the Morro Global File System. Master data is in the cloud and versions are kept according to policy.

Team Collaboration
CacheDrive handles the file syncing and locking, supporting a wide range of applications including Microsoft Office, AutoCAD, Revit, and Adobe CC Suite of desktop apps.

How CacheDrive Works

Files are stored in the Cloud, cached in the gateway, and synced globally.

MORRO CLOUD
Global File System. Files are stored in the Cloud.

MCM
Manage all your devices from one central location.

Team Portal
Users can access their files anywhere, anytime from the web-based Team Portal.

CacheDrive
Client computers connect to a Cloud storage gateway using the local network. Recently used files are cached locally.

San Francisco

London

San Francisco
Files are downloaded once and available at all locations.

London
Sync and share across networks. Files are synchronized and available at all locations.