

Morro Data CloudNAS Overview

Global File Services	
	Access cloud storage with NAS user experience via CacheDrive, Infinite cloud storage capacity for simple scale out
	Store files on the cloud and cache files locally for high performance access and WAN optimization
	A global filesystem on top of Cloud object storage with unified user authentication, permission management and access control
	Multiple-site file sync and share, support of file locking and versioning
	Cloud first storage for offsite progressive backup and zero-time instant recovery
Global File System	
Cloud File System	Master data in cloud and copies or metadata in gateways. Gateway cache enables high performance single namespace access to unlimited file system.
Unlimited Storage	For both primary and secondary storage.
Cloud First	Store all files and metadata in cloud. Eliminate dependencies on local hardware. Choice of Cloud Storage providers.
Storage Pool	A pool specifies where and how data is stored and synced. A pool may contain multiple shares.
Shares	A network share can have specific user access permissions as well as gateway permissions Sync Share, Replicate Share, Archive Share
Global Sync	Automatically sync files across gateways, no need for VPN or replication.
Replicate	Unidirectional File Transfer and cloud backup
Global File Lock	Remote Team Collaboration for Office Remote Team Collaboration for Design Lock Office and other files across gateways, enabling file collaboration across multiple locations.
Disaster Recovery	File System metadata sync in minutes for replacement or new gateway for full file access.
File Versioning	Version control of 1, 3, 30, 300, unlimited versions, or customized versioning policy. Restore prior versions for ransomware recovery.
Prefetch	Automatic download to destination gateway vs. on-demand download.
Deduplication	Redundant files are de-duplicated to save cloud storage and upload bandwidth
Compression	Files are compressed to save cloud storage and upload bandwidth

Bandwidth Limiting	Control sync window and sync bandwidth on share basis
Share Mapping	Shares can be optionally mapped to gateways
Advanced SMB Share Controls	Options to enable oplocks and to use Extended Attributes to save streams
Share links	Create a secure link for accessing file(s) or folder(s) to share with external users with specified expiration

Security

Encryption	Files are encrypted both in transit and at rest in cloud
Location Based Access	File access permission based on location and on/off premises
Web Access Security	File access permission replicated from Samba access

User Management

Users and Groups	User and Group access permissions
Active Directory	Supports - on-prem Microsoft Active Directory, Azure AD, and Azure based ADS. Office 365 for business can use the same login credentials.
User Permissions	Define default guest access and the permission per user/group (read only / read write / no access)
Location Based Permissions	File access based on Gateway (location) and on/off premises (read only / read write / no access)
Share Folder Security	Manage shared folder's ownership and access control list
Others	Support LDAP and IDaaS (OneLogin, Okta) user authentication and management

System Interface

NAS Experience	Present shares the same as NAS, with unlimited capacity.
Local Network Interface	Support SMB protocol version 2.0/2.1/3.0/3.1 working with Windows, Mac, and Linux clients
Client OS Support	Windows, macOS X, Linux, Major Browser
Web Interface	Team Portal for permission-based file access and management Upload files and create folders to shares Manage file versions, download, rename, copy, move, delete, purge files, create share link for files

Morro Cloud Manager

Gateway Management	Globally manage all gateways on MCM
File System Management	Manage cloud storage group, pools, and shares Support of multiple cloud redundancy for pools/shares Globally manage all shares in a Single Namespace
Dashboard	Usage analytics and system diagram
Analytics	Storage usage, User activities, and Data transfer activities
Role Based Management	Business Admin, Global Admin, Regular User
Users and Groups	Users, Primary Group, Secondary Groups
Account management	User profile

	Morro Account information Payment info and real time cloud usage (Admin only)
Logs	Event logs by category – team/device/file system/etc. Event logs by severity – information/warning/error
Apps	
ECHO	Morro ECHO Dropbox Morro ECHO OneDrive
Slack / Microsoft Teams	Slack / Microsoft Teams integration for Management Alerts
Morro Audit	An add-on app that audits Morro Data CloudNAS users' access and activities for compliance and retrospective breach analysis/investigation.
SharePoint Sync	Cloud-to-Cloud Sync between Office 365 SharePoint Document Library and CloudNAS Share
Morro Migrate	An add-on app that manages the migration of files from an existing file server or Cloud storage bucket to a Morro Data share.
Morro Duplicate	Morro Duplicate allows users to backup files and permissions from Morro Global File System to an existing on-premises file server or NAS.
Gateway	
CacheDrive Models	Desktop - G80, G80 Pro Mini-Tower - T600mini Rackmount 1U - R1100 Virtual Appliance - V200 for Vmware, V201 for Hyper-V, V202 CacheDrive in Cloud, Azure, V203 CacheDrive in Cloud, AWS
Device Information	CacheDrive Model number, serial number, firmware version, IP address, UUID and Cache Size
Cloud Caching	Files are uploaded to cloud through cache, presenting access window to unlimited file system size
Backup Caching	Unlimited backup target through cache
NAS Interface	SMB/Samba network share interface same as NAS
Deduplication	Files are de-duplicated on gateway to save upload bandwidth
Compression	Files are compressed on gateway to save upload bandwidth
Encryption	Files are encrypted on gateway before upload
Upload Status	Monitor upload status, speed, remaining upload and files
Prefetch Status	Monitoring prefetch files, status, speed etc.
Advanced Device Option	Hostname and SMB version selection
Device Clock	Global time zone based. Device clock for Time Shift Sync
Device Management	Shutdown, reboot, and firmware update from centralized cloud management UI
Green Computing	Low power consumption cache design replacing fixed storage NAS or file server
Cloud Storage	

Amazon S3 Regions	US (OR, VA, OH, CA), Canada (Montreal), UK (London), Germany (Frankfurt), Australia, Japan (Tokyo, Osaka), Singapore, China (Beijing, Ningxia), BYOS
Backblaze B2	BYOS
Wasabi Hot Cloud Storage	US East (Virginia), US West (Oregon), Japan, BYOS
Azure Blob	BYOS All Regions
RSTOR Cloud Storage	BYOS all Regions
Seagate Lyve Cloud	BYOS all Regions

Morro Connect Desktop App

Supported OS	Windows macOS
Simple Connect	Auto start and login for Windows Persistent network share connection
Unified Access	Access files via Team Portal or Gateway from unified interface

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