Morro Data is revolutionizing data management with its innovative CloudNAS 3-in-1 File Services product delivering local network performance and simple user experience combined with cloud reliability, accessibility, and scalability. Morro Data's CloudNAS Series, allows businesses to quickly and efficiently manage unlimited file storage, multiple office sync, and instant disaster recovery.

CloudNAS includes cloud storage, Morro global filesystem, and Morro CacheDrive devices. The **Morro CacheDrive** is the industry's first cloud gateway designed for high-performance, efficient and simple file access. Powered by Morro's Cache & Sync technology, the CacheDrive delivers advanced data management features, such as global de-duplication, compression, chunking, encryption, and versioning.

CacheDrive V101 is a CacheDrive in a virtual machine (VM). The V101 is designed for Hyper-V hypervisor and allows IT professionals to easily deploy in Microsoft Windows environment. An V101 image can be acquired and deployed on a standard hardware platform to function as other Morro CacheDrive devices.

High-performance

The Morro CacheDrive caches the most-recent accessed content locally for shared access. It allows users to access cloud-stored contents at local network speed – that is *100 times faster* than accessing directly from the cloud limited by the average broadband Internet connection.

Storage Efficiency

Smart Cache & Sync allows users to access the files on demand. Once being accessed, the files are cached locally and available to all local network users. It frees disk space on users' PC or Mac. Users can be worry-free about running out of disk space typically caused by unnecessary automatic cloud storage download.
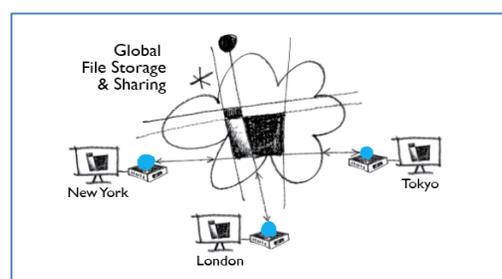
Infinite Capacity

The CacheDrive is a gateway to the entire global filesystem. Even with limited cache size, users can access virtually unlimited file storage on the cloud. The solution is highly scalable to infinite capacity.

The file metadata are sync'd and made available across all CacheDrive devices in the Morro account. Based on usage the most-recently accessed files are kept in each on-premises CacheDrive while the non-cached files are downloaded on demand from the cloud.

Morro CacheDrive is built upon advanced architecture and supports a range of cache size configurations. The cache size is determined based on the file access workload and the total cloud storage capacity. For general use, a 10-to-1 ratio is recommended for cloud-to-cache capacity to optimize the file download and cache utilization. This can be tailored per use case.

Data Resiliency

Morro CacheDrive allows files being stored on Morro Cloud Storage, which is built on Amazon AWS S3. The enterprise-class cloud storage is rated with 99.9% availability and 99.999999999% durability. Morro CloudNAS also supports bring-your-own-Storage for users to integrate its own AWS S3 or BackBlaze B2 cloud storage. All offers enterprise class data resiliency, reliability and durability.

Global File System

The Morro global filesystem provides unified and consolidated files access for users in the same office or from remote offices, for all the files stored on Cloud Storage. System administrator can setup and manage user accounts, user permissions and storage resource from a cloud-based management portal. Users in multiple office locations can all work together just like working in the same office.

Simple and Versatile

Morro CacheDrive supports simple Network Attached Storage (NAS) interface via the Server Message Block (SMB) protocol. Users can drag-n-drop files in the most familiar local file manager.

Morro CloudNAS with the combined benefit of cloud and local network, it's a perfect fit for multiple office sync-n-share, cloud based backup, and accelerated cloud storage for primary file server applications.

Cost-effective

With smart Cache & Sync technology, files are downloaded from the cloud to CacheDrive and shared among all users. It reduces the Internet traffic. With its innate backup-less and maintenance-free operation, Morro CloudNAS reduces the operational cost and management overhead.
The solution does not charge per-user fee, offers optimal Total Cost of Ownership (TCO) for businesses.

Technical Specifications

Hypervisor	Microsoft Hyper-V (Gen.2)
Supported configuration	
Internal Storage /Cache	Up to 64 TB Minimum 80GB required. 1TB or more cache capacity recommended.
Memory	2 GB Minimum 768MB required
Networking	1 port supported DHCP, Support of IPv4 and IPv6
Network File Protocol	CIFS/SMB
Management	Morro Cloud Manager, device management, user/group manager, Account manager, customized unique URL
Access and Authentication	User, Group, Gateway based share mapping
Storage	Morro Cloud (Amazon S3 based), AWS S3, BackBlaze B2, Wasabi Cloud De-duplication, compression, file-versioning
Security	AES 256-bit encryption, SSL for Web link
Supported Browser	Chrome v.49 or later, Firefox v.51 or later, IE 9 or later, Safari 7 or later
SKU / Configuration	Worldwide: V1110WW CloudNAS Business or CloudNAS Enterprise plan needed