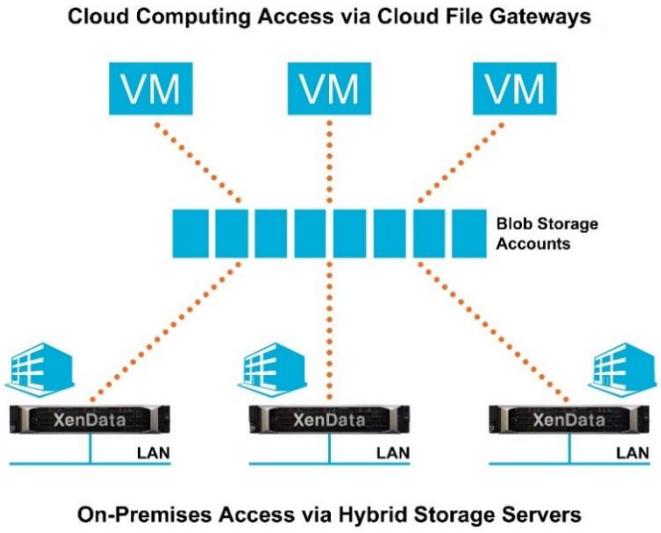
XenData Global File System

Built on Azure Blob Storage

XenData provides a **Global File System** that is built on Microsoft's Azure blob storage. It links on-premises Windows file servers on multiple sites and virtual machines in multiple cloud regions. The Global File System enables you to securely store, synchronize, and collaborate, across all cloud and physical locations.

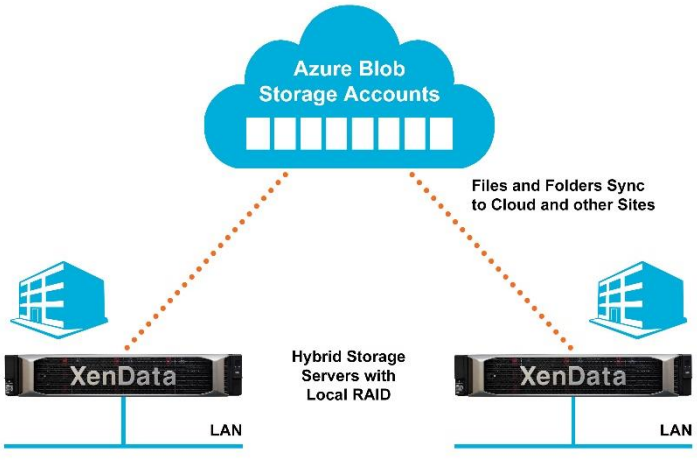
XenData **Hybrid Storage Servers** running XenData **Cloud File Gateway** software provide the on-premises gateways to the Global File System. Azure Virtual Machines access the Global File System by running XenData Cloud File Gateway software.



Whether using an on-premises Hybrid Storage Server or a VM running Cloud File Gateway software, file-based applications can access highly scalable and cost-effective blob storage without modification. Each on-premises server and Azure VM has a disk cache managed by XenData software which provides fast access to frequently used files.

The Global File System merges and synchronizes Azure storage accounts, no matter in which region they are located. XenData file synchronization uses **Azure Cosmos DB**, Microsoft's globally distributed low-latency database, for fast syncing of the content across the containers in all storage accounts, across all regions.

The XenData Global File System can be employed to store, share and to collaborate on a massive scale, supporting both on-premises and cloud computing. One of the simplest configurations is to share files across two sites using Hybrid Storage Servers, as illustrated opposite.



The XenData Cloud File Gateway software, whether running on an on-premises Hybrid Storage Server or an Azure VM, delivers outstanding transfer rates. It is optimized for large files, making it ideal for many creative media, image, scientific and engineering applications.

Tailored Disk Caching Policies

Each gateway has a disk cache for retaining instances of frequently accessed files. Tiering policies determine which files are written to disk cache, blob storage or both. The user can set policy rules for various file types and folders. Timed disk retention rules may also be applied to files written to blob storage, determining how long files are held on cache after written or last read.

Standard File Sharing and Security

Files may be accessed locally or shared via SMB, NFS or FTP. The tiered storage volume is fully compliant with the Microsoft security model based on Active Directory, allowing for easy introduction into an existing Windows domain or workgroup.

Managing File Versions

When a file is being overwritten, the last saved version of the file is shown in the Global File System.

Supports 3rd Party Container Imports

Azure Containers created by 3rd party applications such as **Azure Storage Explorer** or **AzCopy** may be imported into the Global File System. This non-proprietary approach prevents unnecessary conversions.

Specifications

Scalability	
Maximum Cloud Capacity	Unlimited
Maximum Local Disk Cache	256 TiB
Maximum Number of Managed Files	1.95 billion
Maximum File Size	256 TiB
VM / On-Premises Platform	
Operating System	Windows Server 2016
Disk Cache	NTFS formatted
Supported Network Protocols	SMB, NFS and FTP
Azure	
Storage Tiers Supported	Cool and Hot Blob Storage
Supported Database	Cosmos DB

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