

GLOBAL FILE CACHE

Consolidate distributed file servers into NetApp Cloud Volumes for Google Cloud

NetApp and Google Cloud help organizations modernize their distributed storage on their journey into secure, scalable public cloud infrastructure. With this proven solution strategy, enterprises can centralize and consolidate unstructured data while taking advantage of a software fabric that caches active datasets in offices around the world. As a result, business users have transparent data access and optimal performance on a global scale.

Factors Affecting the Distributed Enterprise

Today, one of the biggest challenges that organizations face is the excessive growth of unstructured data and the inability to centrally manage those datasets efficiently. Considering that 80% of unstructured data resides at more than one location, organizations struggle to manage these “islands” of data. The result is complex and costly IT management, as well as increased risk of audit, compliance, and security breaches.

NetApp and Google Cloud: The Next Step in Unstructured Data Management for the Distributed Enterprise

By using NetApp® Global File Cache intelligent file caching software with NetApp Cloud Volumes for Google Cloud, you can do more than just control your data. You revolutionize the way your company manages unstructured data, both in its IT operations and in users’ ability to access and use that data globally.

Currently, 85% of companies are in the process of adopting a cloud transformation strategy. They must address the spectrum of on-premises, hybrid, and public cloud services and associated storage technologies to host company data. NetApp and Google Cloud recognize the impact on the organization, end users, distributed IT strategy, and critical data management operations. To fit into your IT strategy, this capability is available in either a managed environment with NetApp Cloud Volumes Service for Google Cloud, or an unmanaged environment in the form of NetApp Cloud Volumes ONTAP® software.

Challenges of Distributed Storage

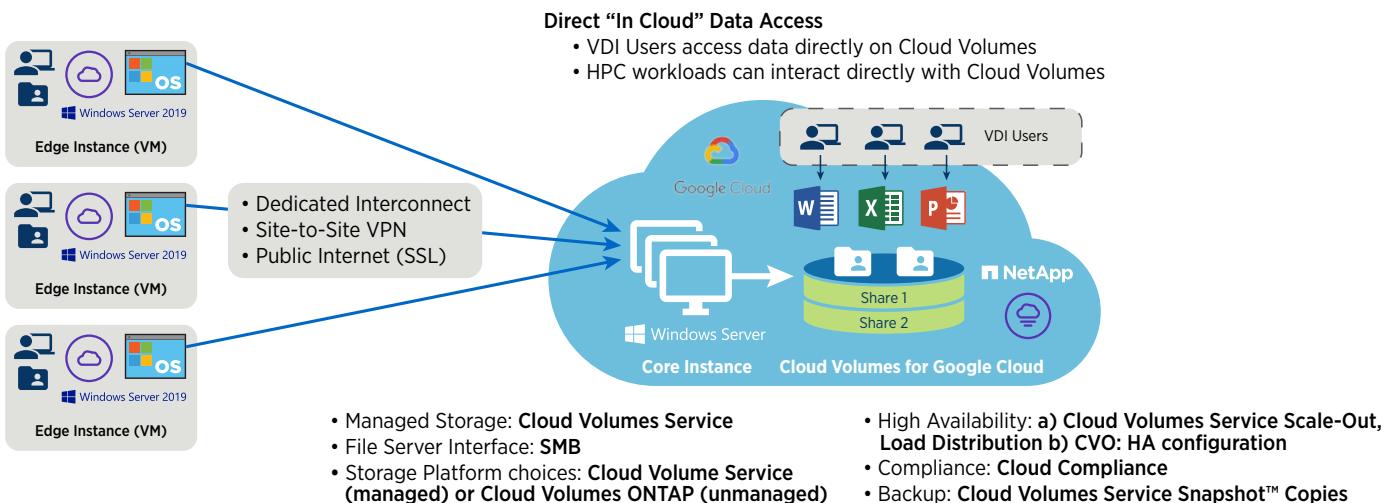
- Are you managing islands of data in your branch offices?
- Are your users struggling with slow performance when they access files?
- Do you need a cost-effective approach to managing unstructured data to accommodate ever-growing datastores?
- Does the business environment require you to move your unstructured data workloads into the public cloud to take advantage of scale and flexibility?

What if you could have the governance, control, and cost advantages of centralizing unstructured data into a scalable Google Cloud instance without sacrificing edge performance?

What if you could combine better operational controls and lower infrastructure costs with an incredible collaboration experience at the edge?

What next: Justify it by answering three simple questions of a) how many locations you have, b) how many file servers are there, c) and what is the average size of each file server.

Try it: Go to <https://cloud.netapp.com/gcp-cvs-ip-google-cloud-get-started> to start your Free Trial



The NetApp and Google Cloud joint-solution approach allows a scalable, flexible, and cost-effective solution strategy, addressing all layers of the enterprise from end users, to branch offices, to the scalable cloud infrastructure.

Drastically reduce storage footprint

Consolidation with Global File Cache gives distributed branch offices total access to the entire directory structure, providing streamlined access to all company data while only active datasets are cached locally. Users have immediate access to all centralized data, which could be hundreds of terabytes or even petabytes of unstructured data. But only data that is relevant to users in that office is cached locally in the Global File Cache edge instance. Also, as the active dataset ages over time in any given location, the Global File Cache algorithms clear the least-recently-used (LRU) cached files from the local cache volume.

Streamline and simplify distributed IT

Organizations that are trying to centralize and consolidate their branch office IT storage assets can realize significant cost savings by eliminating complexity, the need to perform backups, and risk. Global File Cache deploys transparently on a (virtual) Microsoft Windows Server instance, on traditional servers, or on virtualization platforms such as Microsoft Hyper-V or VMware vSphere, so enterprises can consolidate local storage into the cloud. They can also use embedded services such as Microsoft Active Directory, DNS/DHCP, DNS, Microsoft Distributed File System (DFS) Namespaces, and Software Distribution Service in their streamlined and standardized branch office IT image.

Industry standards maintained

Using the industry-standard SMB protocol, you can choose from several back-end storage platforms to store your unstructured data. You can then make that data accessible globally through the Global File Cache fabric, which provides a virtual file share and intelligent file cache at each edge location. Global File Cache integrates fully with security principles such as those used in Active Directory, access control lists (ACLs), NTFS permissions, and DFS Namespaces.

Provide an optimal user experience

With Global File Cache intelligent file caching software, your distributed users get an optimal experience. By accessing and collaborating on data in real time—transparent to all client platforms—users will feel as if they’re all working in the same office, anywhere in the world, regardless of bandwidth, latency, and distance.

About NetApp

NetApp is the leader in cloud data services, empowering global organizations to change their world with data. Together with our partners, we are the only ones who can help you build your unique data fabric. Simplify hybrid multicloud and securely deliver the right data, services, and applications to the right people at the right time. Learn more at www.cloud.netapp.com/googlecloud.

