



Supplemental NFS Datastore for GCVE

NetApp Solutions

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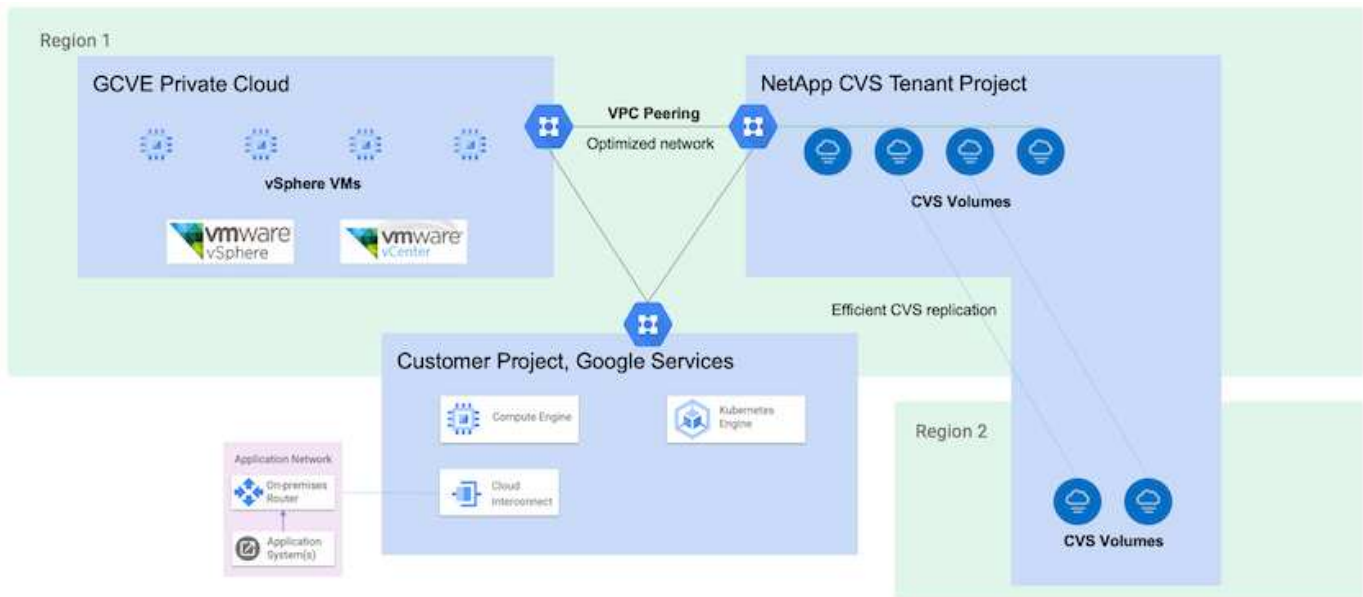
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Google Cloud VMware Engine Supplemental NFS Datastore with NetApp Cloud Volume Service

Overview

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Customers that requires additional storage capacity on their Google Cloud VMware Engine (GCVE) environment can utilize Netapp Cloud Volume Service to mount as supplemental NFS datastore. Storing data on NetApp Cloud Volume Service allows customers to replicate between regions to protect from diaster.



Deployment steps to mount NFS datastore from NetApp CVS on GCVE

Provision CVS-Performance Volume

The NetApp Cloud Volume Service volume can be either provisioned by
[Using Google Cloud Console](#)
[Using NetApp BlueXP portal or API](#)

Mark that CVS volume as non-deletable

To avoid accidental deletion of volume while VM is running, ensure the volume is marked as non-deletable as shown in screenshot below.

The screenshot shows the 'Edit File System' page in the NetApp Cloud Volumes console. On the left is a sidebar with navigation options: Cloud Volumes, Storage Pools, Volumes (selected), Backups, Snapshots, Active Directories, Volume Replication, and Project Settings. The main content area is titled 'Edit File System' and shows details for an 'Extreme' file system. Under 'Volume Details', the 'Allocated Capacity' is set to 1024 GiB. Below this, there's a section for 'Managing your volumes for growth' with a 'Learn more' link. The 'Protocol Type' is set to 'NFSv3'. A note states: 'Active Directory must be setup to provision an SMB or dual-protocol volume. The Allow local NFS users with LDAP option in Active Directory connections enables local NFS client users not present on the Windows LDAP server to access a dual-protocol volume that has LDAP with extended groups enabled. [Learn more](#)'. There are three checkboxes: 'Make snapshot directory (.snapshot) visible' (unchecked), 'Enable LDAP' (unchecked), and 'Block volume from deletion when clients are connected' (checked). The checked checkbox is highlighted with a red rectangular box. Below this is the 'Export Policy' section, which is currently collapsed.

For more info, please refer [Creating NFS Volume](#) documentation.

Ensure Private Connection on GCVE exists for NetApp CVS Tenant VPC.

To mount NFS Datastore, there should be a private connection exists between GCVE and NetApp CVS project.

For more info, please refer [How to setup Private Service Access](#)

Mount NFS datastore

For instructions on how to mount NFS datastore on GCVE, please refer [How to create NFS datastore with NetApp CVS](#)



As vSphere hosts are managed by Google, you don't have access to install NFS vSphere API for Array Integration (VAAI) vSphere Installation Bundle (VIB).

If you need support for Virtual Volumes (vVol), please let us know.

If you like to use Jumbo Frames, please refer [Maximum supported MTU sizes on GCP](#)

Savings with NetApp Cloud Volume Service

To learn more about your potential saving with NetApp Cloud Volume Service for your storage demands on GCVE, please check [NetApp ROI Calculator](#)

Reference Links

- [Google Blog - How to use NetApp CVS as datastores for Google Cloud VMware Engine](#)
- [NetApp Blog - A better way to migrate your storage-rich apps to Google Cloud](#)

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