Getting started with Cloud Volumes ONTAP for Google Cloud

Cloud Manager

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Get started with Cloud Volumes ONTAP for GCP in a few steps.

Create a Connector

If you don't have a Connector yet, an Account Admin needs to create one. Learn how to create a Connector in GCP.

When you create your first Cloud Volumes ONTAP working environment, Cloud Manager prompts you to deploy a Connector if you don't have one yet.

Plan your configuration

Cloud Manager offers preconfigured packages that match your workload requirements, or you can create your own configuration. If you choose your own configuration, you should understand the options available to you. Learn more.

Set up your networking

a. Ensure that your VPC and subnets will support connectivity between the Connector and Cloud Volumes ONTAP.
b. If you're deploying an HA pair, ensure that you have four VPCs, each with their own subnet.
c. If you're using a shared VPC, provide the Compute Network User role to the Connector service account.
d. Enable outbound internet access from the target VPC so the Connector and Cloud Volumes ONTAP can contact several endpoints.

   This step is important because the Connector can't manage Cloud Volumes ONTAP without outbound internet access. If you need to limit outbound connectivity, refer to the list of endpoints for the Connector and Cloud Volumes ONTAP.

Learn more about networking requirements.

Set up GCP for data tiering and Backup to Cloud

Two requirements must be met to tier cold data from Cloud Volumes ONTAP to low-cost object storage (a Google Cloud Storage bucket). Option b. is a requirement to backup up volumes from Cloud Volumes

ONTAP to low-cost object storage:

a. Configure the Cloud Volumes ONTAP subnet for Private Google Access.

b. Set up a service account for data tiering:

   - Assign the predefined *Storage Admin* role to the tiering service account.
   - Add the Connector service account as a *Service Account User* to the tiering service account.

     You can provide the user role in step 3 of the wizard when you create the tiering service account, or grant the role after the service account was created.

     You'll need to select the tiering service account later when you create a Cloud Volumes ONTAP working environment.

     If you don't enable data tiering and select a service account when you create the Cloud Volumes ONTAP system, then you'll need to turn off the system and add the service account to Cloud Volumes ONTAP from the GCP console.

Enable Google Cloud APIs

Enable the following Google Cloud APIs in your project. These APIs are required to deploy the Connector and Cloud Volumes ONTAP.

- Cloud Deployment Manager V2 API
- Cloud Logging API
- Cloud Resource Manager API
- Compute Engine API
- Identity and Access Management (IAM) API

Launch Cloud Volumes ONTAP using Cloud Manager

Click **Add Working Environment**, select the type of system that you would like to deploy, and complete the steps in the wizard. Read step-by-step instructions.

Related links

- Evaluating
- Creating a Connector from Cloud Manager
- Installing the Connector software on a Linux host
- What Cloud Manager does with GCP permissions

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