



## **Get started**

### Cloud Volumes Service for Google Cloud

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# Get started

## Learn about Cloud Volumes Service for Google Cloud

NetApp Cloud Volumes Service for Google Cloud enables you to quickly add multi-protocol workloads as well as build and deploy both Windows-based and UNIX-based apps.

### Key features

- Migrate data between on-premises and Google Cloud.
- Provision volumes from 1 to 100 TiB in seconds.
- Multiprotocol support (you can create an NFS or SMB volume).
- Protect data with automated, efficient snapshots.
- Accelerate app development with rapid cloning.

### Cost

Volumes created by the Cloud Volumes Service for Google Cloud are charged to your subscription to the service, not through Cloud Manager.

There are no charges to discover a Cloud Volumes Service for Google Cloud region or volume from Cloud Manager.

[View pricing in the Google Cloud Marketplace](#)

### Supported regions

[View supported Google Cloud regions](#)

### Before you get started

Cloud Manager can discover existing Cloud Volumes Service for GCP subscriptions and volumes. See the [NetApp Cloud Volumes Service for Google Cloud documentation](#) if you haven't set up your subscription yet.

### Getting help

Use the Cloud Manager chat for general questions about Cloud Volumes Service operation in Cloud Manager.

For general questions about Cloud Volumes Service for Google Cloud, email NetApp's Google Cloud Team at [gcinfo@netapp.com](mailto:gcinfo@netapp.com).

For technical issues associated with your cloud volumes, you can create a technical support case from the Google Cloud Console. See [obtaining support](#) for details.

### Related links

- [NetApp Cloud Central: Cloud Volumes Service for Google Cloud](#)
- [NetApp Cloud Volumes Service for Google Cloud documentation](#)

# Quick start for Cloud Volumes Service for Google Cloud

Get started quickly by following these steps or follow the links for full details.

1

## Enable the Cloud Volumes Service API

From Google, enable the Cloud Volumes Service for GCP API so that Cloud Manager can manage the subscription and cloud volumes.

[Learn how to enable the API.](#)

2

## Create a GCP service account and download credentials

From Google, create a service account and role so that Cloud Manager can access your Cloud Volumes Service for Google Cloud account.

[Learn how to set up a service account.](#)

3

## Create a Cloud Volumes Service for GCP working environment

In Cloud Manager, click **Add Working Environment > Google Cloud > Cloud Volumes Service** and then provide details about the service account and Google Cloud project.

[Learn how to create a working environment.](#)

## Set up Google Cloud

Cloud Manager needs access to the Cloud Volumes Service API and the right permissions through a Google Cloud service account.

### Enable the Cloud Volumes Service API

In Google Cloud Shell, run the following command to enable the Cloud Volumes Service API:

```
gcloud --project=<my-cvs-project> services enable cloudvolumesgcp-api.netapp.com
```

### Set up a service account

Complete the following tasks so that Cloud Manager can access your Google Cloud project:

- Create a new service account
- Add the new service account member to your project and assign it specific roles (permissions)
- Create and download a key pair for the service account that is used to authenticate to Google

#### Steps

1. In the Google Cloud console, [go to the Service accounts page](#).
2. Click **Select a project**, choose your project, and click **Open**.

3. Click **Create service account**.
4. Enter the service account name (friendly display name) and description.

The Cloud Console generates a service account ID based on this name. Edit the ID if necessary - you cannot change the ID later.

5. To set access controls now, click **Create** and then **DONE** from the bottom of the page, and continue to the next step.
6. From the *IAM page* click **Add** and fill out the fields in the *Add Members* page:
  - a. In the New Members field, enter the full service account ID, for example, [user1-service-account-cvs@project1.iam.gserviceaccount.com](#).
  - b. Add these roles:
    - *NetApp Cloud Volumes Admin*
    - *Compute Network Viewer*
  - c. Click **Save**.
7. Click the Service Account name, and then from the *Service account details* page, click **Add key > Create new key**.
8. Select **JSON** as the key type and click **Create**.

By clicking **Create** your new public/private key pair is generated and downloaded to your system. It serves as the only copy of the private key. Store this file securely because it can be used to authenticate as your service account.

For detailed steps, refer to Google Cloud documentation:

- [Creating and managing service accounts](#)
- [Granting, changing, and revoking access to resources](#)
- [Creating and managing service account keys](#)

## Create a Cloud Volumes Service for Google Cloud working environment

Create a Cloud Volumes Service for Google Cloud working environment in Cloud Manager so that you can create and manage volumes and snapshots.

Regardless of whether you have already created volumes from the Google Cloud Console, or if you just signed up for Cloud Volumes Service for Google Cloud and have no volumes yet, the first step is to create a working environment for the volumes based on your GCP subscription.

If cloud volumes already exist for this subscription, then the volumes will appear in the new working environment. If you haven't added any cloud volumes yet for the GCP subscription, then you do that after you create the new working environment.



If you have subscriptions and volumes in multiple Google Cloud projects, you need to perform this task for each project.

### Before you begin

You must have the following information available when adding a subscription for each project:

- Service account credentials (JSON private key you downloaded)
- Project name

### Steps

1. In Cloud Manager, add a new Working Environment, select the location **Google Cloud**, and click **Continue**.
2. Select **Cloud Volumes Service** and click **Continue**.

The screenshot shows the 'Define Your Working Environment' wizard. At the top, it says 'Add Working Environment Wizard' and 'Define Your Working Environment'. Below this, there are four options for the working environment: Microsoft Azure, Amazon Web Services, Google Cloud, and On-Premises ONTAP. The Google Cloud option is selected, indicated by a blue checkmark in a red box. Below these options, there are three options for the service: Cloud Volumes ONTAP (Single Node), Cloud Volumes ONTAP HA (High Availability), and Cloud Volumes Service (High Availability). The Cloud Volumes Service option is selected, also indicated by a blue checkmark in a red box. Below these options, there is a message: 'You're about to set up Cloud Volumes Service for GCP.' At the bottom, there is a blue 'Continue' button, which is highlighted with a red box.

3. Provide information about your Cloud Volumes Service subscription:
  - a. Enter the Working Environment Name you want to use.
  - b. Copy/paste the JSON private key you downloaded in the previous steps.
  - c. Select the name of your Google Cloud project.
  - d. Click **Continue**.

The screenshot shows the 'Cloud Volumes Service Credentials' form. It has three main sections: 'Working Environment Name' with a text input field, 'Service Account Credentials' with a text area for pasting the contents of the JSON file and an 'Apply' button, and 'Project' with a dropdown menu showing 'Select project...'.

## Result

Cloud Manager displays your Cloud Volumes Service for Google Cloud working environment.



If cloud volumes already exist for this subscription, then the volumes appear in the new working environment. You can add additional cloud volumes from Cloud Manager.

If no cloud volumes exist for this subscription, create them now.

## What's next?

[Start creating volumes.](#)

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