



# **Set up Cloud Volumes Service for Google Cloud**

## **Cloud Manager**

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# Table of Contents

- Set up Cloud Volumes Service for Google Cloud ..... 1
  - Quick start ..... 1
  - Enable the Cloud Volumes Service API ..... 1
  - Give Cloud Manager access to the Cloud Volumes Service for GCP account ..... 1
  - Create a Cloud Volumes Service for GCP working environment ..... 2

# Set up Cloud Volumes Service for Google Cloud

Create a Cloud Volumes Service for Google Cloud working environment in Cloud Manager to create and manage volumes and snapshots.

## Quick start

Get started quickly by following these steps, or go to the next section for full details.



### 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.



### Create a GCP service account and download credentials

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



### 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.

## 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
```

## Give Cloud Manager access to the Cloud Volumes Service for GCP account

You must 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, see the Google Cloud topics [Creating and managing service accounts](#), [Granting, changing, and revoking access to resources](#), and [Creating and managing service account keys](#).

## Create a Cloud Volumes Service for GCP working environment

Set up a Cloud Volumes Service for GCP working environment in Cloud Manager so you can start creating volumes.

Regardless of whether you have already created volumes from the Google Cloud Console, or if you just signed up for Cloud Volumes Service for GCP 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 GCP 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' step of the 'Add Working Environment Wizard'. It features two rows of options. The top row includes 'Microsoft Azure', 'Amazon Web Services', 'Google Cloud' (selected with a blue checkmark and a red box), and 'On-Premises ONTAP'. The bottom row, preceded by a 'Previous Step' arrow, shows 'Cloud Volumes ONTAP Single Node', 'Cloud Volumes ONTAP HA High Availability', and 'Cloud Volumes Service High Availability' (selected with a blue checkmark and a red box). Below these options, a message states 'You're about to set up Cloud Volumes Service for GCP.' At the bottom, a blue 'Continue' button 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 displays the 'Cloud Volumes Service Credentials' form. It contains three main sections: 'Working Environment Name' with a text input field; 'Service Account Credentials' with a large text area for pasting JSON and an 'Apply' button; and 'Project' with a dropdown menu currently 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 and managing volumes.](#)

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