Backing up data to Google Cloud storage

Cloud Manager

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Backing up data to Google Cloud storage

Complete a few steps to get started backing up data from Cloud Volumes ONTAP to Google Cloud storage.

Quick start

Get started quickly by following these steps or scroll down to the remaining sections for full details.



Verify support for your configuration

- You're running Cloud Volumes ONTAP 9.7P5 or later in GCP.
- You have a valid GCP subscription for the storage space where your backups will be located.
- You have a Service Account in your Google Cloud Project that has the predefined Storage Admin role.
- You have subscribed to the Cloud Manager Marketplace Backup offering, or you have purchased and activated a Backup to Cloud BYOL license from NetApp.



Enable Backup to Cloud on your new or existing system

- New systems: Backup to Cloud can be enabled when you complete the new working environment wizard.
- Existing systems: Select the working environment and click **Activate** next to the Backup to Cloud service in the right-panel, and then follow the setup wizard.





Enter the provider details

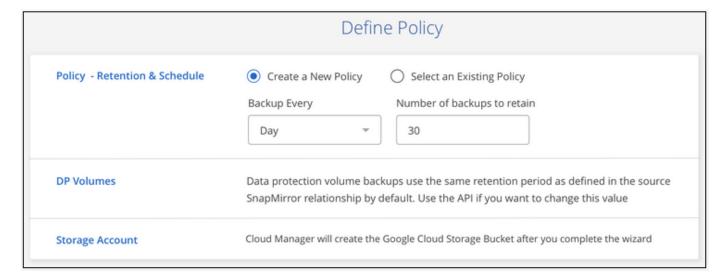
Select the Google Cloud Project where you want the Google Cloud Storage bucket to be created for backups.





Define the backup policy

The default policy backs up volumes every day and retains the most recent 30 backup copies of each volume. Change to weekly or monthly backups, or select one of the system-defined policies that provide more options.





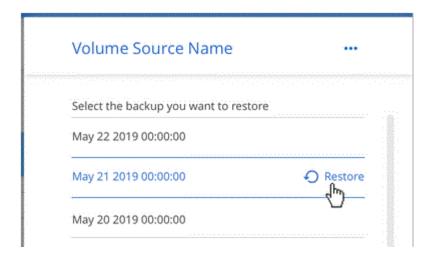
Select the volumes that you want to back up

Identify which volumes you want to back up in the Select Volumes page.



Restore your data, as needed

From the Backup List, select a volume, select a backup, and then restore data from the backup to a new volume. A Service Account is required on the Cloud Volumes ONTAP system where you are performing the restore.



Requirements

Read the following requirements to make sure that you have a supported configuration before you start backing up volumes to Google Cloud storage.

Supported ONTAP versions

Cloud Volumes ONTAP 9.7P5 and later.

Note: Only single-node Cloud Volumes ONTAP systems are currently supported.

Supported GCP regions

Backup to Cloud is supported in all GCP regions where Cloud Volumes ONTAP is supported.

License requirements

For Backup to Cloud PAYGO licensing, a subscription through the GCP Marketplace is required before you enable Backup to Cloud. Billing for Backup to Cloud is done through this subscription. You can subscribe from the Details & Credentials page of the working environment wizard.

For Backup to Cloud BYOL licensing, you need the serial number from NetApp that enables you to use the service for the duration and capacity of the license. See Adding and updating your Backup BYOL license.

And you need to have a Google subscription for the storage space where your backups will be located.

GCP Service Account

You need to have a Service Account in your Google Cloud Project that has the predefined Storage Admin role. See creating a service account that has the Storage Admin role.

Enabling Backup to Cloud on a new system

Backup to Cloud can be enabled when you complete the working environment wizard to create a new

Cloud Volumes ONTAP system.

You must have a Service Account already configured. If you don't 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.

See Launching Cloud Volumes ONTAP in GCP for requirements and details for creating your Cloud Volumes ONTAP system.

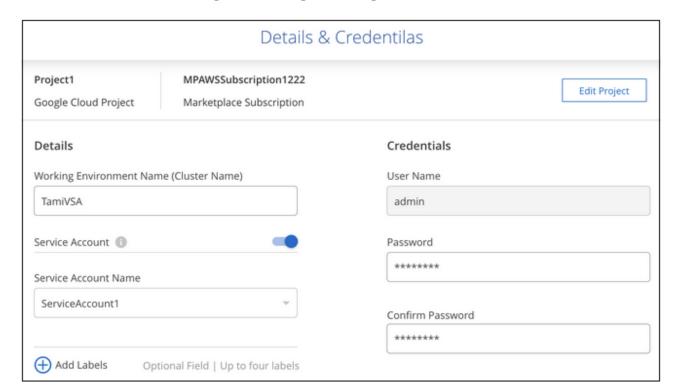
Steps

- 1. On the Working Environments page, click **Add Working Environment** and follow the prompts.
- 2. Choose a Location: Select Google Cloud Platform.
- 3. Choose Type: Select Cloud Volumes ONTAP.

Select a single node system at this time. HA systems are not currently supported.

- 4. **Details & Credentials**: Enter the following information:
 - a. Click **Edit Project** and select a new project if the one you want to use is different than the default Project (where Cloud Manager resides).
 - b. Specify the cluster name.
 - c. Enable the **Service Account** switch and select the Service Account that has the predefined Storage Admin role. This is required to enable backups and tiering.
 - d. Specify the credentials.

Make sure that a GCP Marketplace subscription is in place.



5. **Services**: Leave the Backup to Cloud service enabled and click **Continue**.



6. Complete the pages in the wizard to deploy the system as described in Launching Cloud Volumes ONTAP in GCP.

Result

Backup to Cloud is enabled on the system and backs up the volume you created every day and retains the most recent 30 backup copies.

You can start and stop backups for additional volumes or change the backup schedule and you can restore entire volumes or individual files from a backup file.

Enabling Backup to Cloud on an existing system

You can enable Backup to Cloud at any time directly from the working environment.

Steps

1. Select the working environment and click **Activate** next to the Backup to Cloud service in the right-panel.

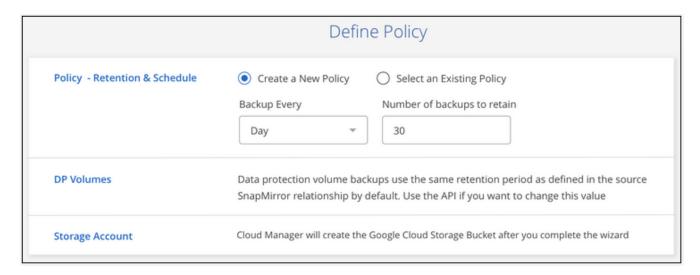


2. Select the Google Cloud Project where you want the Google Cloud Storage bucket to be created for backups, and click **Continue**. This can be a different Project than where the Cloud Volumes ONTAP system resides.



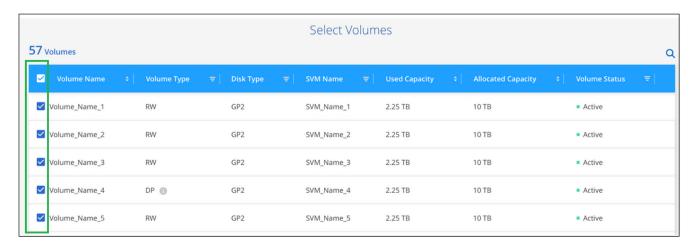
Note that the Project must have a Service Account that has the predefined Storage Admin role, and that you cannot change the Project after the service has started.

3. In the *Define Policy* page, select the backup schedule and retention value and click **Continue**.



See the list of existing policies.

4. Select the volumes that you want to back up and click **Activate**.



- To back up all volumes, check the box in the title row (✓ Volume Name).
- To back up individual volumes, check the box for each volume (
 ✓ Volume_1).

Result

Backup to Cloud starts taking the initial backups of each selected volume.

What's next?

You can start and stop backups for volumes or change the backup schedule and you can restore entire volumes or individual files from a backup file.

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