■ NetApp

GCP

Cloud Manager

NetApp March 04, 2022

This PDF was generated from https://docs.netapp.com/us-en/occm/concept_accounts_gcp.html on March 04, 2022. Always check docs.netapp.com for the latest.

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GCP

Google Cloud projects, permissions, and accounts

A service account provides Cloud Manager with permissions to deploy and manage Cloud Volumes ONTAP systems that are in the same project as the Connector, or in different projects.

Project and permissions for Cloud Manager

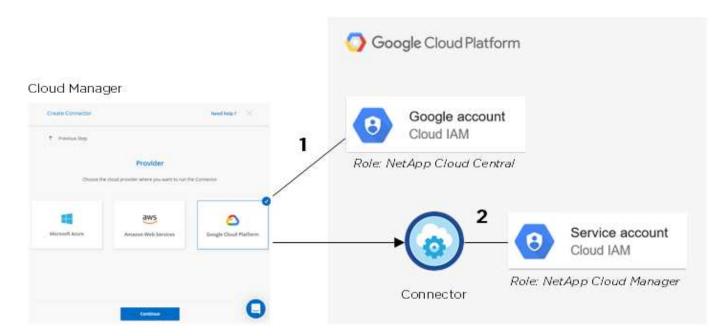
Before you can deploy Cloud Volumes ONTAP in Google Cloud, you must first deploy a Connector in a Google Cloud project. The Connector can't be running on your premises, or in a different cloud provider.

Two sets of permissions must be in place before you deploy a Connector directly from Cloud Manager:

- 1. You need to deploy a Connector using a Google account that has permissions to launch the Connector VM instance from Cloud Manager.
- 2. When deploying the Connector, you are prompted to select a service account for the VM instance. Cloud Manager gets permissions from the service account to create and manage Cloud Volumes ONTAP systems on your behalf. Permissions are provided by attaching a custom role to the service account.

We have set up two YAML files that include the required permissions for the user and the service account. Learn how to use the YAML files to set up permissions.

The following image depicts the permission requirements described in numbers 1 and 2 above:



Project for Cloud Volumes ONTAP

Cloud Volumes ONTAP can reside in the same project as the Connector, or in a different project. To deploy Cloud Volumes ONTAP in a different project, you need to first add the Connector service account and role to that project.

- Learn how to set up service account (see step 2).
- · Learn how to deploy Cloud Volumes ONTAP in GCP and select a project.

Account for data tiering



Cloud Manager requires a GCP account for Cloud Volumes ONTAP 9.6, but not for 9.7 and later. If you want to use data tiering with Cloud Volumes ONTAP 9.7 or later, then follow step 4 in Getting started with Cloud Volumes ONTAP in Google Cloud Platform.

Adding a Google Cloud account to Cloud Manager is required to enable data tiering on a Cloud Volumes ONTAP 9.6 system. Data tiering automatically tiers cold data to low-cost object storage, enabling you to reclaim space on your primary storage and shrink secondary storage.

When you add the account, you need to provide Cloud Manager with a storage access key for a service account that has Storage Admin permissions. Cloud Manager uses the access keys to set up and manage a Cloud Storage bucket for data tiering.

After you add a Google Cloud account, you can then enable data tiering on individual volumes when you create, modify, or replicate them.

- · Learn how to set up and add GCP accounts to Cloud Manager.
- Learn how to tier inactive data to low-cost object storage.

Managing GCP credentials and subscriptions for Cloud Manager

You can manage two types of Google Cloud Platform credentials from Cloud Manager: the credentials that are associated with the Connector VM instance and storage access keys used with a Cloud Volumes ONTAP 9.6 system for data tiering.

Associating a Marketplace subscription with GCP credentials

When you deploy a Connector in GCP, Cloud Manager creates a default set of credentials that are associated with the Connector VM instance. These are the credentials that Cloud Manager uses to deploy Cloud Volumes ONTAP.

At any time, you can change the Marketplace subscription that's associated with these credentials. The subscription enables you to create a pay-as-you-go Cloud Volumes ONTAP system, and to use other NetApp cloud services.

Steps

- 1. In the upper right of the Cloud Manager console, click the Settings icon, and select **Credentials**.
- 2. Click the action menu for a set of credentials and then select Associate Subscription.



3. Select a Google Cloud project and subscription from the down-down list.



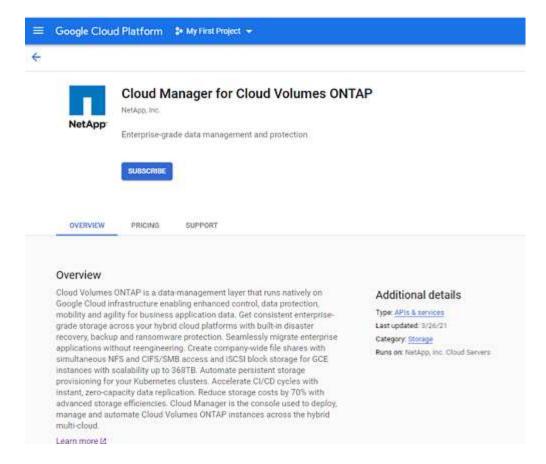
- 4. Click Associate.
- 5. If you don't already have a subscription, click **Add Subscription** and follow the steps to create a new subscription below.
 - (i)

Before you complete the following steps, ensure that you have both Billing Admin privileges in your Google Cloud account as well as a NetApp Cloud Central login.

6. Reivew the subscription steps and click Continue.



7. After you're redirected to the NetApp Cloud Manager page on the Google Cloud Marketplace, ensure that the correct project is selected at the top navigation menu.



- 8. Click Subscribe.
- 9. Select the appropriate billing account and agree to the terms and conditions.

2. Purchase details Select a billing account * Secondary_Billing_Account 3. Terms Cancellation and change policy · Usage fee is billed every month. . You can cancel the service at any time and it will take effect immediately. You will be billed by the amount you used for that month. I understand this subscription will be automatically renewed at the end of the current I authorize Google LLC and its affiliates ("Google") to share my purchase, usage, operational (e.g., project lifecycle events), support ticket, and account information with NetApp, Inc., its affiliates and subcontractors, for the purposes of providing the service, sales attribution, and technical support. I represent that I have the authority to bind my company. By deploying the software or accessing the service you are agreeing to comply with the End User License Agreement (2, GCP Marketplace Terms of Service, and the terms of applicable open source software licenses bundled with the software or service. Please review these terms and licenses carefully for details about any obligations you may have related to the software or service. To the limited extent an open source software license related to the software or service expressly supersedes the GCP Marketplace Terms of Service, that open source software license governs your use of that software or service. By using this product, you understand that certain account and usage information may be shared with NetApp, Inc. for the purposes of financial accounting, sales attribution, performance analysis, and support. Google is providing this software or service "as-is" and any support for this software or service will be provided by NetApp, Inc. under their terms of service. SUBSCRIBE

10. Click Subscribe.

This step sends your transfer request to NetApp.

11. On the pop-up dialog box, click **Register with NetApp**, **Inc.** to be redirected to NetApp Cloud Central.





This step must be completed to link the GCP subscription to your NetApp account. The process of linking a subscription isn't complete until you are redirected from this page and then sign in to NetApp Cloud Central.

12. After you're redirected to Cloud Central, log in to NetApp Cloud Central or sign up, and then click **Done** to proceed.

The GCP subscription will be linked to all NetApp accounts that your user login is associated with.





If someone from your organization has already subscribed to the NetApp Cloud Manager subscription from your billing account, then you will be redirected to the Cloud Volumes ONTAP page on NetApp Cloud Central instead. If this is unexpected, contact your NetApp sales team. Google enables only one subscription per Google billing account.

13. Once this process is complete, navigate back to the Credentials page in Cloud Manager and select this new subscription.



Troubleshooting the Marketplace subscription process

Sometimes subscribing to Cloud Volumes ONTAP through the Google Cloud Marketplace can become fragmented due to incorrect permissions or accidentally not following the redirection to NetApp Cloud Central. If this happens, use the following steps to complete the subscription process.

Steps

1. Navigate to the NetApp Cloud Manager page on the Google Cloud Marketplace to check on the state of the order. If the page states **Manage on Provider**, scroll down and click **Manage Orders**.



a. If the order shows a green check mark and this is unexpected, somebody else from the organization using the same billing account might already be subscribed. If this is unexpected or you require the details of this subscription, contact your NetApp sales team.



b. If the order shows a clock and **Pending** status, go back to the marketplace page and choose **Manage** on **Provider** to complete the process as documented above.



Setting up and adding GCP accounts for data tiering with Cloud Volumes ONTAP 9.6

If you want to enable a Cloud Volumes ONTAP 9.6 system for data tiering, you need to provide Cloud Manager with a storage access key for a service account that has Storage Admin permissions. Cloud Manager uses the access keys to set up and manage a Cloud Storage bucket for data tiering.



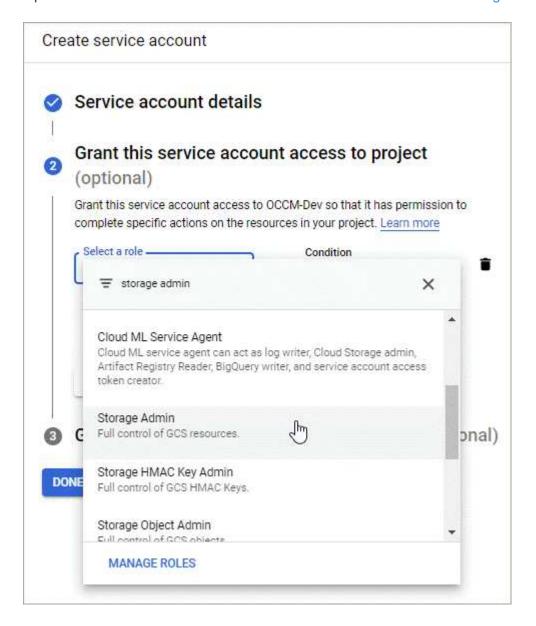
If you want to use data tiering with Cloud Volumes ONTAP 9.7 or later, then follow step 4 in Getting started with Cloud Volumes ONTAP in Google Cloud Platform.

Setting up a service account and access keys for Google Cloud Storage

A service account enables Cloud Manager to authenticate and access Cloud Storage buckets used for data tiering. The keys are required so that Google Cloud Storage knows who is making the request.

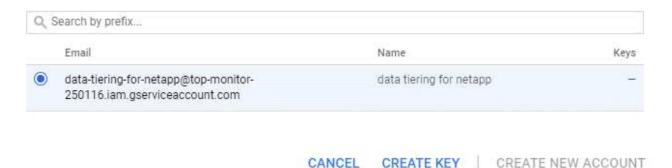
Steps

1. Open the GCP IAM console and create a service account that has the Storage Admin role.



- 2. Go to GCP Storage Settings.
- 3. If you're prompted, select a project.
- 4. Click the Interoperability tab.
- 5. If you haven't already done so, click **Enable interoperability access**.
- Under Access keys for service accounts, click Create a key for a service account.
- 7. Select the service account that you created in step 1.

Select a service account



- 8. Click Create Key.
- 9. Copy the access key and secret.

You'll need to enter this information in Cloud Manager when you add the GCP account for data tiering.

Adding a GCP account to Cloud Manager

Now that you have an access key for a service account, you can add it to Cloud Manager.

What you'll need

You need to create a Connector before you can change Cloud Manager settings. Learn how.

Steps

1. In the upper right of the Cloud Manager console, click the Settings icon, and select Credentials.



- Click Add Credentials and select Google Cloud.
- 3. Enter the access key and secret for the service account.

The keys enable Cloud Manager to set up a Cloud Storage bucket for data tiering.

Confirm that the policy requirements have been met and then click Create Account.

What's next?

You can now enable data tiering on individual volumes on a Cloud Volumes ONTAP 9.6 system when you create, modify, or replicate them. For details, see Tiering inactive data to low-cost object storage.

But before you do, be sure that the subnet in which Cloud Volumes ONTAP resides is configured for Private Google Access. For instructions, refer to Google Cloud Documentation: Configuring Private Google Access.

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