



# **Set up a NetApp account**

## **Set up and administration**

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# Table of Contents

- Set up a NetApp account ..... 1
  - Learn about NetApp accounts ..... 1
  - Set up workspaces and users in your NetApp account ..... 5

# Set up a NetApp account

## Learn about NetApp accounts

A *NetApp account* provides multi-tenancy and enables you to organize users and resources in isolated workspaces from within Cloud Manager.

For example, multiple users can deploy and manage Cloud Volumes ONTAP systems in isolated environments called *workspaces*. These workspaces are invisible to other users, unless they are shared.

When you first access Cloud Manager, you're prompted to select or create a NetApp account:



Hi Ben,

Welcome to Cloud Manager

SET UP CLOUD MANAGER

Cloud Manager will be created in account: MyAccount 

 Cloud Manager Name

LET'S START

Account Admins can then modify the settings for this account by managing users (members), workspaces, Connectors, and subscriptions:



For step-by-step instructions, see [Setting up the NetApp account](#).

## Max Cloud Volumes ONTAP systems

The maximum number of Cloud Volumes ONTAP systems is limited to 50 per NetApp account, regardless of the licensing model in use.

A *system* is either an HA pair or a single node system. For example, if you have eight Cloud Volumes ONTAP HA pairs and four single node systems, you'd have a total of 12 systems, with room for 38 additional systems in your account.

If you have questions, reach out to your account rep or sales team.

## Account Settings

The Manage Account widget in Cloud Manager enables Account Admins to manage a NetApp account. If you just created your account, then you'll start from scratch. But if you've already set up an account, then you'll see *all* the users, workspaces, Connectors, and subscriptions that are associated with the account.

## Overview

The Overview page shows the Account Name and the Account ID. You may need to provide your Account ID when registering some services. This page also includes some Cloud Manager configuration options.

## Members

The members are NetApp Cloud Central users that you associate with your NetApp account. Associating a user with an account and one or more workspaces in that account enables those users to create and manage working environments in Cloud Manager.

When you associate a user, you assign them a role:

- *Account Admin*: Can perform any action in Cloud Manager.
- *Workspace Admin*: Can create and manage resources in the assigned workspace.
- *Compliance Viewer*: Can only view Cloud Data Sense compliance information and generate reports for systems that they have permission to access.
- *SnapCenter Admin*: Can use the SnapCenter Service to create application consistent backups and restore data using those backups. *This service is currently in Beta.*

[Learn more about these roles.](#)

## Workspaces

In Cloud Manager, a workspace isolates any number of *working environments* from other working environments. Workspace Admins can't access the working environments in a workspace unless the Account Admin associates the admin with that workspace.

A working environment represents a storage system:

- A single-node Cloud Volumes ONTAP system or an HA pair
- An on-premises ONTAP cluster in your network
- An ONTAP cluster in a NetApp Private Storage configuration

[Learn how to add a workspace.](#)

## Connectors

A Connector enables Cloud Manager to manage resources and processes within your public cloud environment. The Connector runs on a virtual machine instance that you deploy in your cloud provider, or on an on-prem host that you configured.

You can use a Connector with more than one NetApp cloud data service. For example, if you already have a Connector for Cloud Manager, you can select it when you set up the Cloud Tiering service.

[Learn more about Connectors.](#)

## Subscriptions

These are the NetApp subscriptions associated with the selected account.

When you subscribe to Cloud Manager from a cloud provider's marketplace, you're redirected to Cloud Central where you need to save your subscription and associate it with specific accounts.

After you've subscribed, each subscription is available from the Manage Account widget. You'll only see the subscriptions that are associated with the account that you're currently viewing.

You have the option to rename a subscription and to disassociate the subscription from one or more accounts.

For example, let's say that you have two accounts and each is billed through separate subscriptions. You might disassociate a subscription from one of the accounts so the users in that account don't accidentally choose the wrong subscription when creating a Cloud Volume ONTAP working environment.

[Learn how to manage subscriptions.](#)

## Examples

The following examples depict how you might set up your accounts.



In both example images that follow, the Connector and the Cloud Volumes ONTAP systems don't actually reside *in* the NetApp account—they're running in a cloud provider. This is a conceptual representation of the relationship between each component.

## Example 1

The following example shows an account that uses two workspaces to create isolated environments. The first workspace is for a production environment and the second is for a dev environment.

Account



## Example 2

Here's another example that shows the highest level of multi-tenancy by using two separate NetApp accounts. For example, a service provider might use Cloud Manager in one account to provide services for their customers, while using another account to provide disaster recovery for one of their business units.

Note that account 2 includes two separate Connectors. This might happen if you have systems in separate regions or in separate cloud providers.



## Set up workspaces and users in your NetApp account

When you log in to Cloud Manager for the first time, you're prompted to create a *NetApp account*. This account provides multi-tenancy and enables you to organize users and resources in isolated *workspaces*.

[Learn more about how NetApp accounts work.](#)

Set up your NetApp account so users can access Cloud Manager and access the working environments in a workspace. Just add a single user or add multiple users and workspaces.

### Add workspaces

In Cloud Manager, workspaces enable you to isolate a set of working environments from other working environments and from other users. For example, you can create two workspaces and associate separate users with each workspace.

#### Steps

1. From the top of [Cloud Manager](#), click the **Account** drop-down.



2. Click **Manage Account** next to the currently selected account.



3. Click **Workspaces**.
4. Click **Add New Workspace**.
5. Enter a name for the workspace and click **Add**.

### After you finish

If a Workspace Admin needs access to this workspace, then you'll need to associate the user. You'll also need to associate Connectors with the workspace so Workspace Admins can use those Connectors.

## Add users

Associate Cloud Central users with the NetApp account so those users can create and manage working environments in Cloud Manager.

### Steps

1. If the user hasn't already done so, ask the user to go to [NetApp Cloud Central](#) and sign up.
2. From the top of [Cloud Manager](#), click the **Account** drop-down and click **Manage Account**.





3. From the Members tab, click **Associate User**.
4. Enter the user's email address and select a role for the user:
  - **Account Admin**: Can perform any action in Cloud Manager.
  - **Workspace Admin**: Can create and manage resources in assigned workspaces.
  - **Compliance Viewer**: Can only view Cloud Data Sense governance and compliance information and generate reports for workspaces that they have permission to access.
  - **SnapCenter Admin**: Can use the SnapCenter Service to create application consistent backups and restore data using those backups. This service is currently in Beta.
5. If you selected an account other than Account Admin, select one or more workspaces to associate with that user.



The image shows a web-based dialog box titled "Associate User" with a user icon at the top. Below the title is a light blue instruction bar stating: "To add a user to your NetApp Cloud Account, that user must already have signed up at [NetApp Cloud Central](#). Enter the email address that they used when signing up with Cloud Central." The main form area contains three fields: "User's Email" with the text "test@netapp.com", "Role" with a dropdown menu showing "Workspace Admin", and "Associate User to Workspaces" with a dropdown menu showing "Workspace-1" and a close button (X). At the bottom are two buttons: a grey "Cancel" button and a blue "Associate User" button.



## Associate User

To add a user to your NetApp Cloud Account, that user must already have signed up at [NetApp Cloud Central](#). Enter the email address that they used when signing up with Cloud Central.

User's Email

test@netapp.com

Role

Workspace Admin

Associate User to Workspaces

Workspace-1 X

Cancel Associate User

6. Click **Associate**.

### Result

The user should receive an email from NetApp Cloud Central titled "Account Association." The email includes the information needed to access Cloud Manager.

## Associate Workspace Admins with workspaces

You can associate Workspace Admins with additional workspaces at any time. Associating the user enables them to create and view the working environments in that workspace.

### Steps

1. From the top of Cloud Manager, click the **Account** drop-down and click **Manage Account**.



- From the Members tab, click the action menu in the row that corresponds to the user.



- Click **Manage Workspaces**.
- Select one or more workspaces and click **Apply**.

## Result

The user can now access those workspaces from Cloud Manager, as long as the Connector was also associated with the workspaces.

## Associate Connectors with workspaces

You need to associate a Connector with workspaces so Workspace Admins can use those Connectors to create Cloud Volumes ONTAP systems.

If you only have Account Admins, then associating the Connector with workspaces isn't required. Account Admins have the ability to access all workspaces in Cloud Manager by default.

[Learn more about users, workspaces, and Connectors.](#)

## Steps

- From the top of Cloud Manager, click the **Account** drop-down and click **Manage Account**.



2. Click **Connector**.
3. Click **Manage Workspaces** for the Connector that you want to associate.
4. Select one or more workspaces and click **Apply**.

### Result

Workspace Admins can now use those Connectors to create Cloud Volumes ONTAP systems.

### What's next?

Now that you've set up your account, you can manage it any time by removing users, managing workspaces, Connectors, and subscriptions. [Learn how to manage your account.](#)

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