



NetApp Cloud Volumes Service for AWS

AWS Account Setup

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Abstract

This document provides instructions to set up the initial environment for using NetApp® Cloud Volumes Service for Amazon Web Services (AWS).

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1 Overview

This document guides you through the required steps to (1) Set up your network connections from your AWS account to your Cloud Volumes Service account, (2) Subscribe to NetApp Cloud Volumes Service (CVS) on the AWS Marketplace, and (3) Set up a user account in Cloud Volumes Service.

2 Important Information

To activate your Cloud Volumes Service, you will need to follow these instructions carefully to ensure that your AWS account is set up to accept and connect to the CVS service through the Virtual interfaces that will be published to your account from NetApp, as part of this setup procedure.

Before proceeding with the subscription, you may need to first consult with your AWS administrator, and/or your network security and administration team to review these setup instructions and to provide guidance.

3 Prerequisites

This section details the requirements to access Cloud Volumes Service for AWS.

Administrative

The following administrative tasks are required to access Cloud Volumes Service for AWS:

- Willingness to accept the NetApp End-User License Agreement (EULA)
This EULA is presented as part of the AWS Marketplace subscription process.
- An active AWS account
You should have your 12-digit AWS account ID available as you will need it during the setup process.

Skills and Knowledge

The following skills and information are required to access Cloud Volumes Service for AWS:

- Access to and knowledge of the AWS Marketplace.
- You must be prepared with an IPv4 Classless Inter-Domain Routing (CIDR) block when configuring the new VPC.
- You must have a second unused IPv4 CIDR block where the network must be a /28. The network must also fall within the ranges reserved for private networks (RFC 1918).

Warning: Do not choose a network that overlaps your VPC CIDR allocations.

- Knowledge of your AWS network and connectivity settings and controls.
If necessary, consult with your AWS and network team prior to completing these setup instructions.

Compute Resources

The following compute resources are required to access Cloud Volumes Service for AWS:

- A valid AWS subscription (with permissions to subscribe to new Marketplace listings).
Important: All AWS compute and other resources used are the sole responsibility of the user.
- A Virtual Private Cloud (VPC) that has been configured and running prior to the setup of Cloud Volumes Service for AWS.
- When planning to create an SMB volume, you must have an existing Windows Active Directory server available to which you can connect.
See [AWS security group settings for Windows AD servers](#) for additional information.

4 Workflow Overview

The next two pages provide an overview of the setup steps you need to complete before you can create your first cloud volume. It is important that you understand the setup tasks. The actual steps begin in section 5.1 on page 7.

DO NOT click the **Subscribe** button from the AWS Marketplace until you have completed all the steps in section 5.

4.1 Virtual Private Gateways and Direct Connect Gateways

NetApp Cloud Volumes Service can be connected to either a Virtual Private Gateway or a Direct Connect Gateway. This provides options to best meet your needs. You need to decide which gateway you will use before completing the steps.

Virtual Private Gateways

Virtual Private Gateways allow only one VPC to be connected to the Cloud Volumes Service. This can be useful to further enhance security by isolating data access to a single VPC.

Direct Connect Gateways

Direct Connect Gateways provide additional flexibility, such as the ability to connect EC2 instances from up to 10 VPCs to a cloud volume and for the VPCs to be in different regions. It enables cloud volumes from multiple regions to be connected via the same Direct Connect Gateway.

Important:

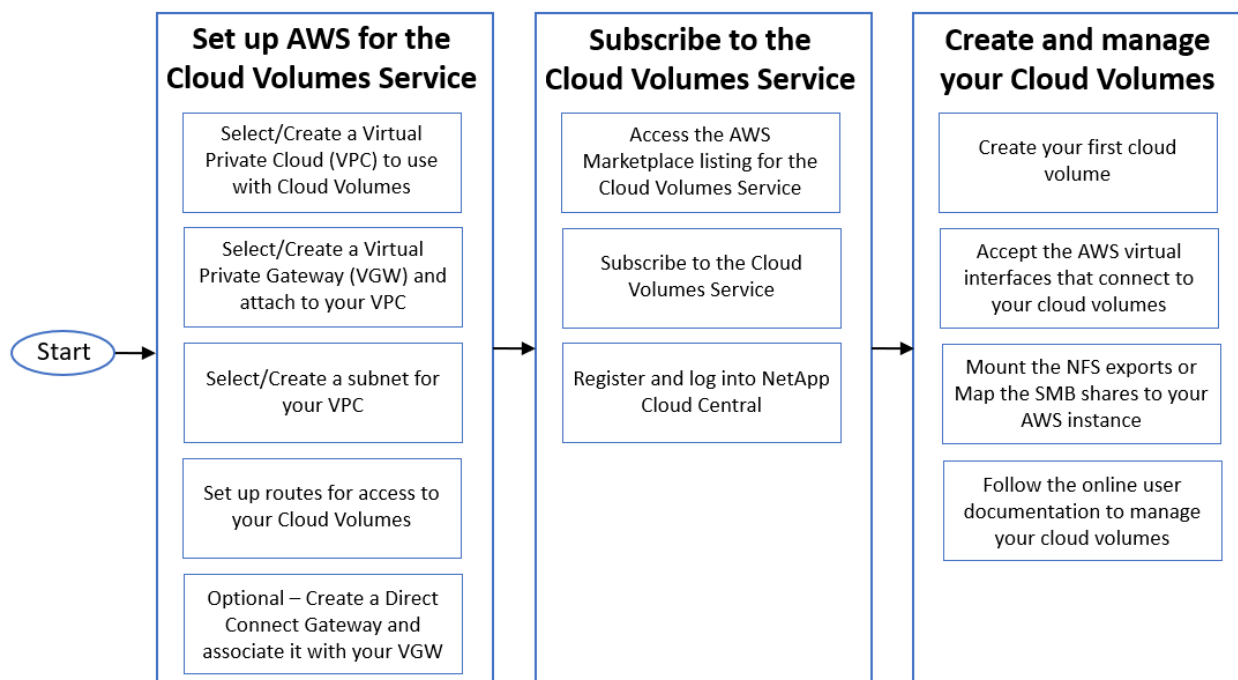
Direct Connect Gateways allow multiple VPCs to be added, however the CIDR ranges of the VPCs cannot overlap as the gateway effectively creates a single network. If you require VPCs that have the same CIDR range, then connect Virtual Private Gateways directly to your cloud volume Virtual Interfaces.

4.2 Cloud Volumes Service Setup Workflow

Figure 1 is a high-level workflow diagram illustrating how to set up your Cloud Volumes Service for AWS account, and how to subscribe to the Cloud Volumes Service for AWS.

For detailed steps for creating your Cloud Volumes Service for AWS account, see section 5 and section 6.

Figure 1) Workflow diagram: Cloud Volumes Service for AWS setup.



5 Set Up your AWS Account for the Cloud Volumes Service

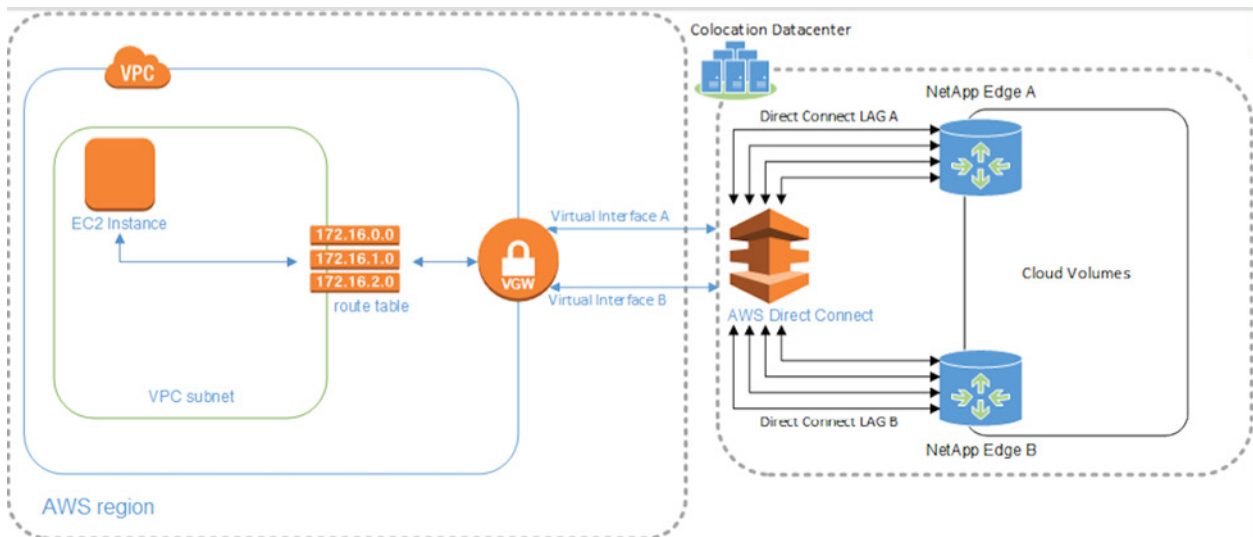
IMPORTANT: Before you subscribe to NetApp Cloud Volumes Service for AWS, you must complete or verify that your AWS account is correctly configured by completing these tasks:

- Select/create a VPC to use with Cloud Volumes (section 5.1)
- Select/create a Virtual Private Gateway (section 5.2)
- Select/create a subnet for the VPC (section 5.3)
- Set up routes to include the Cloud Volumes network (section 5.4)
- Optionally, select/create a Direct Connect Gateway (section 5.5)

If you already have a VPC and Virtual Private Gateway (and optionally a Direct Connect Gateway) configured, and you plan to use these components to connect to CVS, jump to section 5.6

Figure 2 illustrates the connectivity and setup for the Cloud Volumes Service for AWS.

Figure 2) Cloud Volumes Service Architecture for AWS.



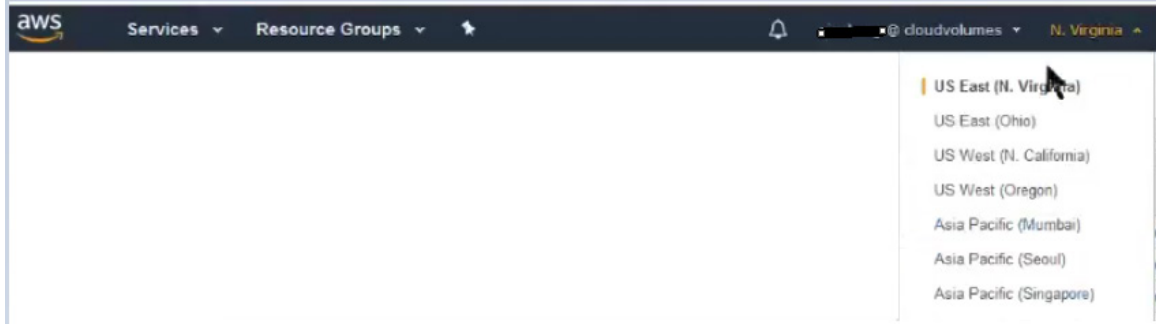
Note: The sample text shown in the screenshots in the steps that follow are provided just as an example. Use your own information when configuring these AWS components. For example, use your own information for the Virtual Private Cloud name and Virtual Private Gateway name.

5.1 Create a VPC to use with Cloud Volumes

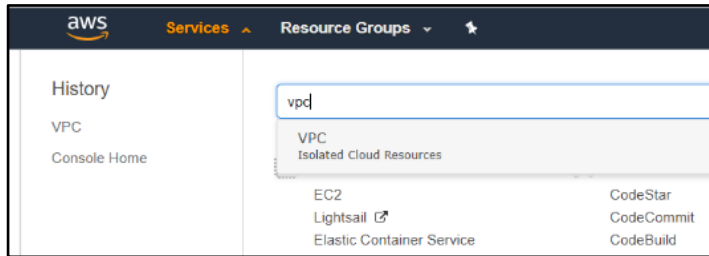
It is not mandatory that you create a new Amazon Virtual Private Cloud (VPC); however, you might need a new VPC to isolate instances associated with the Cloud Volumes project from work in other VPCs.

To create a VPC to use with Cloud Volumes you can use the VPC wizard, or you can follow the configuration steps shown below:

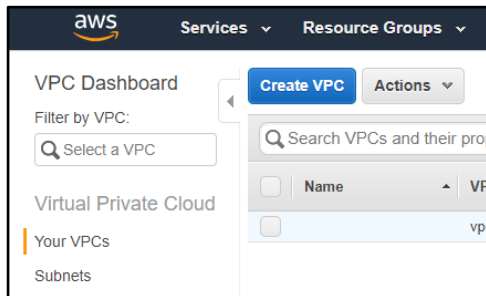
1. Log in to the AWS Management Console using your login credentials, and then select the AWS region in which you plan to deploy cloud volumes.



2. Click **Services** from the menu bar, type **vpc** in the search bar, and select **VPC (Isolated Cloud Resources)** to display the VPC dashboard.



3. Click **Your VPCs** on the navigation pane to the left. Then click **Create VPC** to display the Create VPC page.



4. On the Create VPC page, complete these tasks:
 - a. Enter a unique name to help you identify this VPC to use for Cloud Volumes.
 - b. Enter a private range Classless Inter-Domain Routing (CIDR) block that works for your environment. It doesn't matter what it is, you can select from any private class range. A /24 CIDR block is sufficient. In this example, the CIDR block name is 10.2.0.0/24. Check with your network administrator if you need assistance for selecting the CIDR range.

Note: The VPC CIDR range and the storage CIDR range, which you will enter when creating your first cloud volume, cannot overlap.

- c. Do not change the default values in the IPv6 CIDR block or Tenancy fields.
- d. Click **Yes, Create**. A new VPC is created.

Create VPC

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.

Name tag: MyCloudVolumesVPC

IPv4 CIDR block*: 10.2.0.0/24

IPv6 CIDR block*: ☒ No IPv6 CIDR Block ☐ Amazon provided IPv6 CIDR block

Tenancy: Default

Cancel Yes, Create

5. Click **Close** to close the window.

5.2 Create a Virtual Private Gateway and Attach it to Your VPC

The VGW is a network gateway that provides a route to NetApp Cloud Volumes.

To create a VGW and attach it to your VPC, complete the following steps:

1. On the VPC page of the AWS console, select **Virtual Private Gateway**.
2. At the top of the page, select **Create Virtual Private Gateway** and the Create Virtual Private Gateway page is displayed.

Virtual Private Gateways > Create Virtual Private Gateway

Create Virtual Private Gateway

A virtual private gateway is the router on the Amazon side of the VPN tunnel.

Name tag: MyCloudVolumesVGW

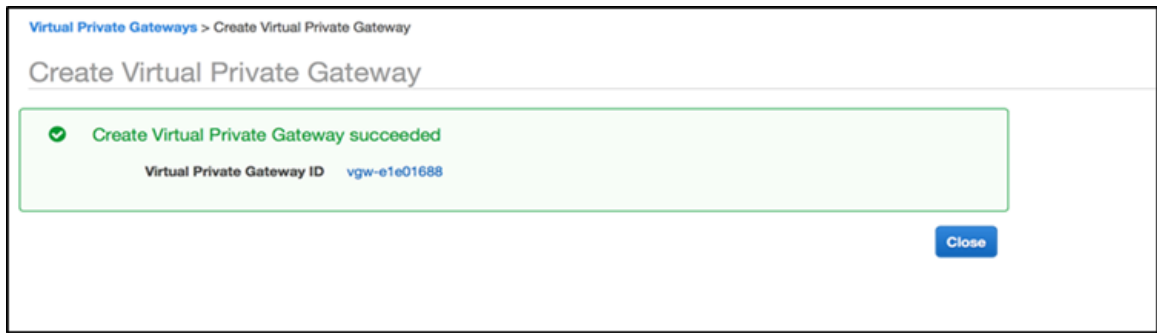
ASN: ☒ Amazon default ASN ☐ Custom ASN

Cancel Create Virtual Private Gateway

3. On the Create Virtual Private Gateway page, complete these tasks:
 - a. Provide an appropriate name tag for the VGW.
 - b. In the ASN field, NetApp recommends selecting **Amazon default ASN**, in which case your VGW will be assigned an ASN of **64512**. You can select the Custom ASN option and assign any valid private ASN.

Note: Make a note of the ASN as you will need to enter this information when setting up your first cloud volume in an AWS region.

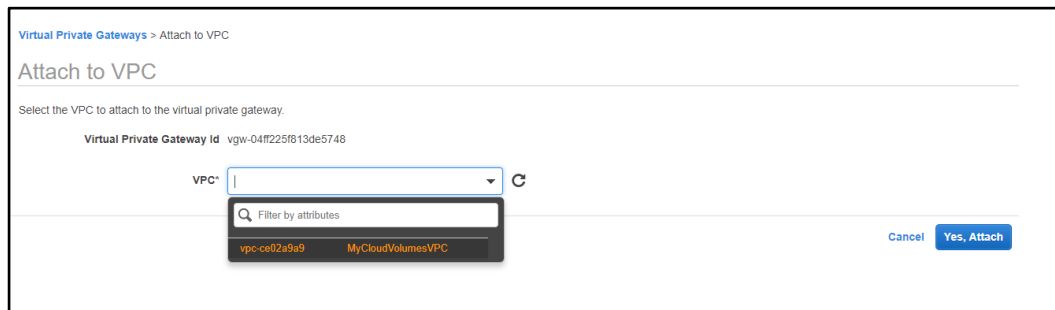
- c. Click **Create Virtual Private Gateway** and the VGW is created.



4. Make a note of the VGW ID and click **Close**. The new VGW is displayed in the `detached` state.
5. Select the box next to the new Virtual Private Gateway and press **Actions** (above the table).



6. Click **Attach to VPC** and the Attach to VPC page is displayed.



7. Click in the VPC field and select the newly created VPC to attach to the VGW, and then click **Yes, Attach**.

You are returned to the Virtual Private Gateway page.

Note: You may have to wait several minutes for the VGW to transition from the `attaching` state to the `attached` state.

Use the **Refresh** button in the upper-right corner of the page to refresh the status.

5.3 Create a Subnet for the VPC

To create a subnet for the VPC, complete the following steps:

1. On the VPC dashboard, select **Subnets** from the navigation pane on the left. A list of existing subnets is displayed.
2. Click **Create Subnet** and the Create Subnet page is displayed.

The 'Create Subnet' dialog box contains the following fields and controls:

- Name tag:** A text input field with the value 'MyCloudVolumesSubnet' and an information icon.
- VPC:** A dropdown menu showing 'vpc-dfc585a4 | MyCloudVolumesVPC' with an information icon.
- VPC CIDRs:** A table with columns 'CIDR', 'Status', and 'Status Reason'. It contains one row with '10.2.0.0/24', a green dot, and 'associated'.
- Availability Zone:** A dropdown menu with 'No Preference' and an information icon.
- IPv4 CIDR block:** A text input field with the value '10.2.0.0/24' and an information icon.
- Buttons:** 'Cancel' and 'Yes, Create' at the bottom right.

3. On the Create Subnet page, complete these steps:
 - a. Enter an appropriate name tag for your environment.
 - b. Select the newly created VPC.
 - c. Unless you want to select a specific availability zone, leave the No Preference default value and the system will select the availability zone for you.
 - d. Unless you need to divide the VPC into multiple subnets, use the CIDR block for the entire VPC.

In this example, the 10.2.0.0/24 CIDR block was used—it represents the entire VPC CIDR block.

- e. Click **Yes, Create**. The new subnet will reside in the VPC you selected.

Note: This process can take a several minutes.

4. Click **Close** to close the window.

5.4 Set Up Routes

To set up routes, complete the following steps:

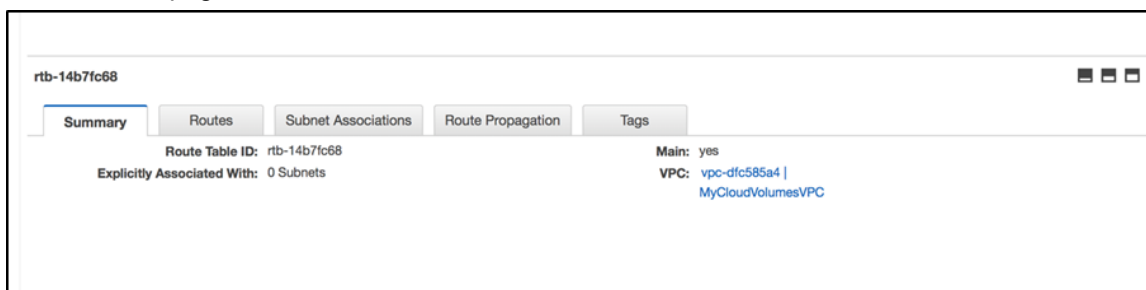
1. On the VPC dashboard, select **Route Tables** from the navigation pane on the left.

Note: A route table is automatically assigned as part of the VPC creation.

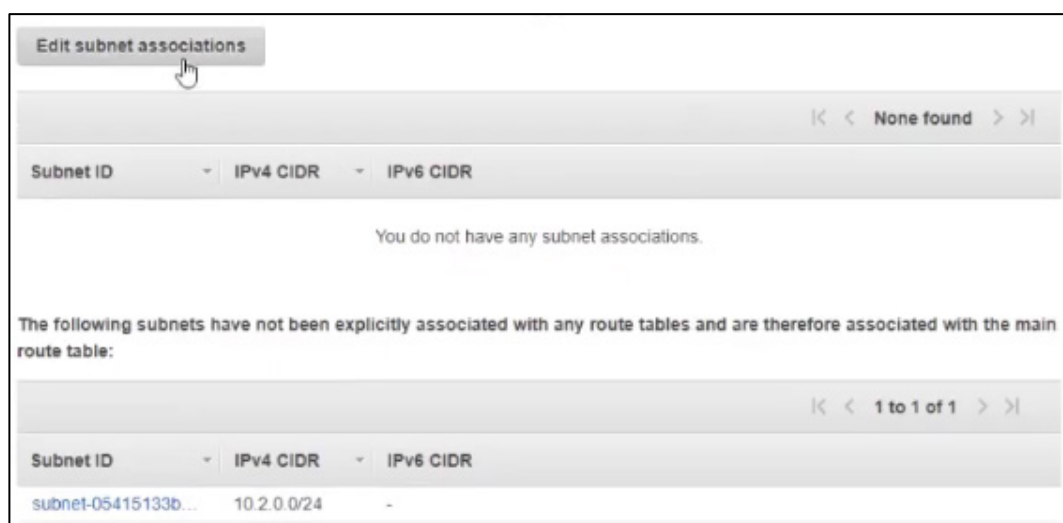
The 'Route Tables' page shows a table of route tables with the following data:

	Name	Route Table ID	Explicitly Associat	Main	VPC
<input type="checkbox"/>		rtb-14b7fc68	0 Subnets	Yes	vpc-dfc585a4 MyCloudVolumesVPC

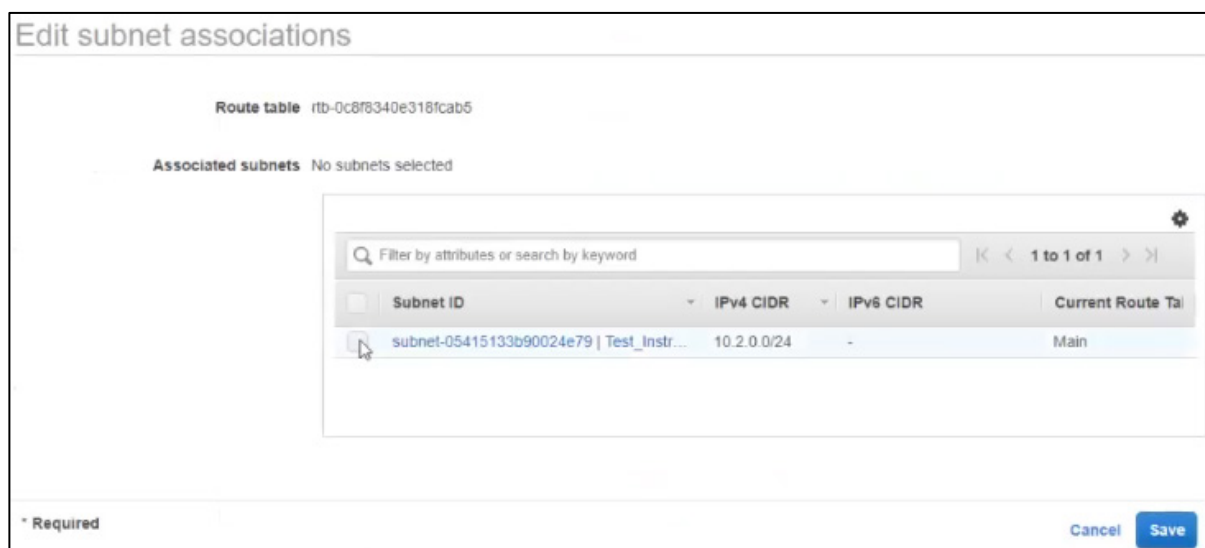
2. Select the route table that corresponds with the VPC you created, and the details are displayed at the bottom of the page.



3. Select the **Subnet Associations** tab.



4. Click the **Edit subnet associations** button to associate the newly created subnet with this route table and the Edit subnet associations page is displayed.



5. In the Edit subnet associations page, select the subnet and click **Save**.

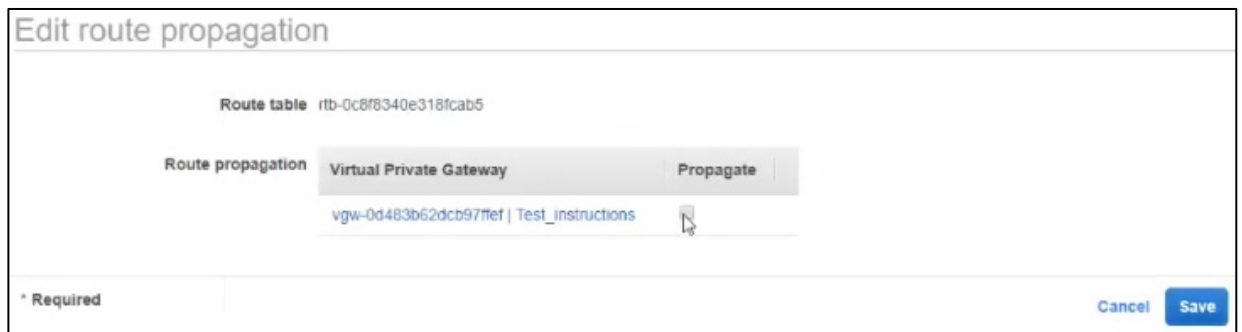
Important: You can choose to configure a static route **or** to propagate the routes. **Do not** propagate routes **and** create a static route. Check with your network administrator if you are not sure about the route configuration.

- Follow step 6 only to propagate routes.
- Follow step 7 only to configure a static route.

6. Select the **Route Propagation** tab to propagate the routes. If you want to create a static route, go to step 7.



- a. Click the **Edit route propagation** button to propagate the routes to the Virtual Private Gateway.



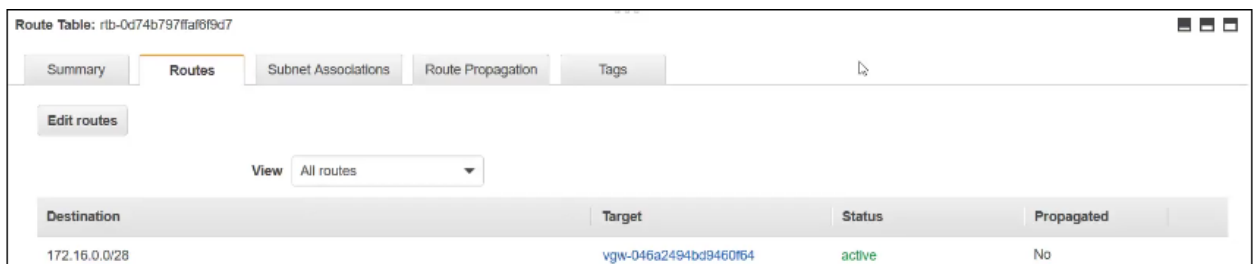
- b. In the Edit route propagation page, check the Propagate box to the right of the VGW name, and then click **Save**.

7. Select the **Routes** tab to configure a static route. If you want to propagate the routes, go to step 6.

- a. In the Routes tab, click **Edit routes**.
- b. Enter the destination CIDR block for Destination and select a target for Target, and **Save** the configuration.

The CIDR block must be an IPv4 range for the region in the /28 range. This CIDR must only contain RFC 1918 (private) addresses.

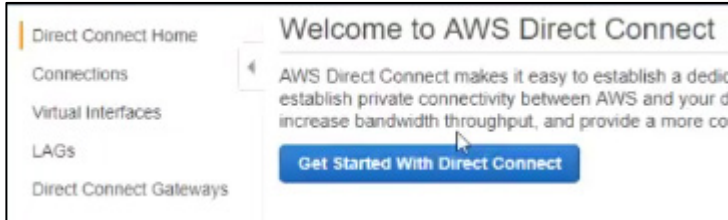
Note: The VPC CIDR range and this storage CIDR range cannot overlap.



5.5 Create a Direct Connect Gateway and associate it with the Virtual Private Gateway (optional)

If you have decided to use a Direct Connect Gateway (DCG) in your configuration, create the Direct Connect Gateway and associate it with the Virtual Private Gateway. See section 4.1 for an explanation why you may want to use a Direct Connect gateway:

1. From the AWS console for your account, navigate to **Services** and type **direct connect** in the search bar. The Direct Connect Home page appears.

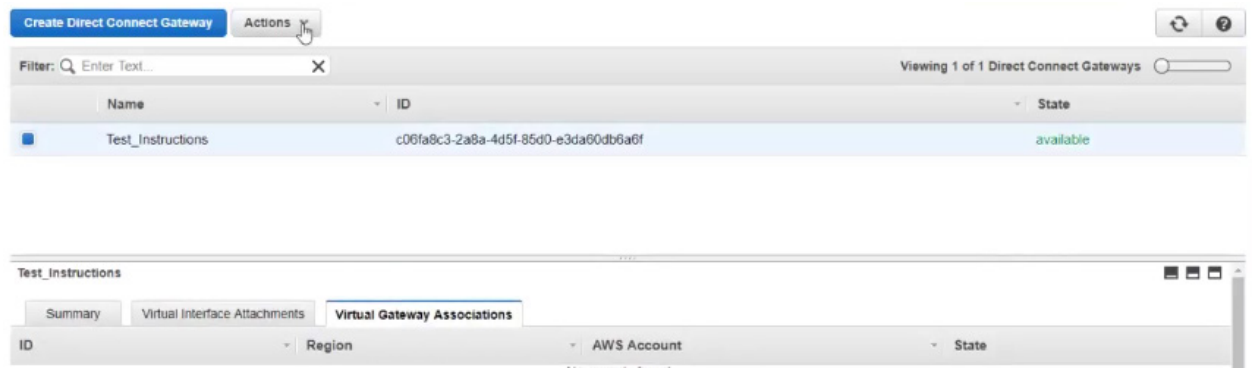


2. From the left navigation, click **Direct Connect Gateways**, then click the **Create Direct Connect Gateway** button from the next page, and the Create a Direct Connect Gateway page is displayed.

3. On the Create a Direct Connect Gateway page, complete these tasks:
 - a. Provide an appropriate name for the DCG.
 - b. In the ASN field, you can enter the same ASN as you used when creating your VGW or you can use a different ASN. Check with your networking team if you are not sure what number to use here.

Note: Make a note of the ASN as you will need to enter this information when setting up your first cloud volume in an AWS region.

- c. Click **Create** and the new DCG is displayed.



4. Select the Direct Connect Gateway and then click the **Actions** button.



5. Select **Associate Virtual Private Gateway** and the Associate Virtual Private Gateways page displays.
6. Select the Virtual Private Gateway and click **Associate**.



7. Click on the **Virtual Gateway Associations** tab in the lower pane to confirm the VGW is associated.



8. Wait until the gateway State transitions from the **associating** to **associated**. This can take several minutes.

5.6 Gather required AWS configuration information

You are now ready to subscribe to NetApp Cloud Volumes in the AWS Marketplace. When subscribing, be prepared to provide the following information that you have collected during the previous steps:

Required Information	Your Value
12-digit Amazon account identifier with no dashes	
AWS region that you selected in section 5.1	
Classless Inter-Domain Routing (CIDR) Block An unused IPv4 CIDR block. The network must be a /28, and it must also fall within the ranges reserved for private networks (RFC 1918). If you configured a static route, use this same CIDR block.	
Autonomous System Number (ASN) When using a Virtual Private Gateway only, use that ASN. When using a Direct Connect Gateway, use that ASN.	

6 Enable AWS Subscription and Cloud Volumes Service

6.1 Access AWS Marketplace Listing for Cloud Volumes Service

Locate the **NetApp Cloud Volumes Service** listing on the AWS Marketplace.

Complete the following steps:

1. Go to the [AWS marketplace page](#) and sign in to your AWS account.
2. Type “NetApp Cloud Volumes Service for AWS” in the search bar to view these NetApp products.
3. Select the **NetApp Cloud Volumes Service for AWS** product.
4. Review the content on that page to fully understand the solutions the product provides, and click on the documentation links to identify the prerequisites tasks you must perform before creating your first cloud volume.
5. Click **Continue to Subscribe**.
6. Select the quantity of TB of capacity you wish to subscribe to.
7. Select or unselect the Auto Renew option for the contract.
8. Review the quantity and price of your contract. The Contract Signup page is displayed.
9. Select the quantity of bundles and then click **Create Contract**.

Note: Only select the quantity that matches your total terabyte subscription. In this example, a 5TB is a quantity of 1 (1x 5TB).

[TEST ONLY] Cloud Volumes for AWS Trial Subscription 5TB

Configure your Software Contract

Choose the contract that suits your needs. You're charged for your purchase on your AWS bill. After you purchase a contract, you're directed to the vendor's site to complete setup and begin using this software. For any software use beyond your contract limit, you're charged consumption pricing.

Contract Duration

☒ 1 month

Renewal Settings

Auto Renew when this contract ends on - Thu Dec 27 2018?

☒ Yes
☐ No

I understand that when I renew, the seller's pricing terms and end user license agreement (EULA) might have changed. On the renewal date, I will be billed based on the price and EULA applicable on that date, which I can find on the Your Marketplace Software page.

Contract Options

Create Contract

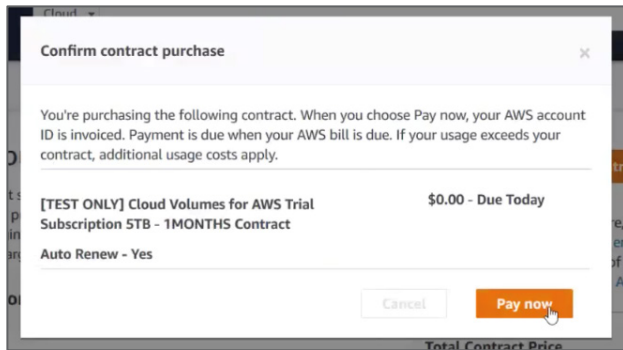
By subscribing to this software, you agree to the pricing terms and the seller's [end user license agreement \(EULA\)](#). Your use of AWS services is subject to the [AWS Customer Agreement](#).

Total Contract Price \$0.00

Due Today
Auto Renew - Yes

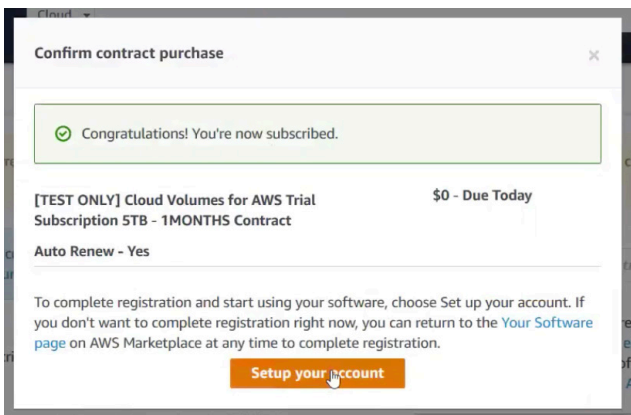
Trial Bundle 5TB X 1 Units \$0.00

10. The Pay Now pop up window displays. If all is OK, click **Pay now**.



11. When the congratulations message is displayed, click **Setup your account**.

Note: Ensure you turn off any ad blocker or pop up blocker on your browser before you select **Setup your account**.



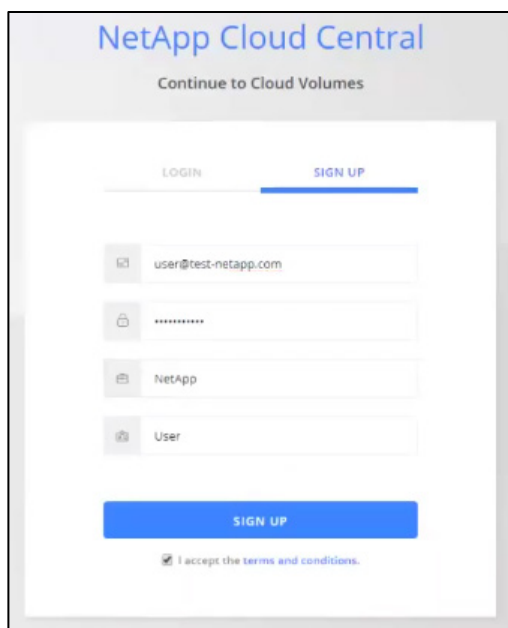
12. You will be redirected to the NetApp Cloud Central page. Complete the steps in the next section to register and log into NetApp Cloud Central.

6.2 Register and Log into NetApp Cloud Central

You may already have a NetApp Cloud Central account. If you do, and this is the account you want to use for CVS, select the “LOGIN” tab and enter your existing User ID and Password.

If this is your first time registering with NetApp Cloud Central, or if you wish to set up an additional account, you will need to register a new account. Select the “SIGN UP” tab.

1. Enter a valid email address.
2. Enter a Password.
3. Enter your company name.
4. Enter your full name.
5. Check the box to accept the terms and conditions and then click **Sign Up**.

The image shows the 'NetApp Cloud Central' login and sign-up interface. At the top, it says 'Continue to Cloud Volumes'. Below this, there are two tabs: 'LOGIN' and 'SIGN UP', with 'SIGN UP' being the active tab. The form contains four input fields: an email field with 'user@test-netapp.com', a password field with masked characters, a company field with 'NetApp', and a user field with 'User'. A blue 'SIGN UP' button is at the bottom, followed by a checkbox for 'I accept the terms and conditions.'.

You have completed the initial process for accessing Cloud Volumes Service for AWS. The Cloud Volumes user interface is displayed.

6.3 Create your first Cloud Volume

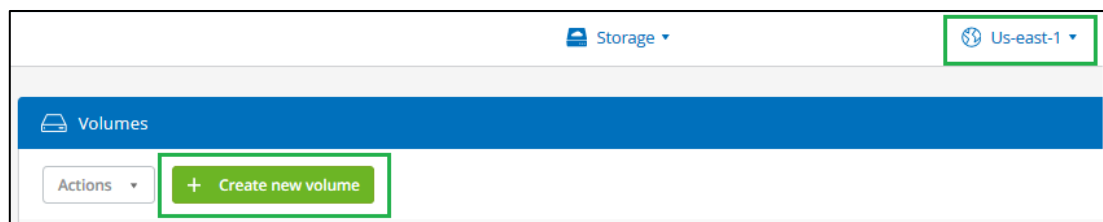
Create your first cloud volume using the Cloud Volumes user interface. You can create an NFS, SMB, or Dual-protocol volume.

Note: When planning to create an SMB volume, you must have an existing Windows Active Directory server available to which you can connect. You must have the details of this server available so you can enter it when creating the volume.

It is recommended that you [activate your NetApp support entitlement](#) so that you can access technical support in case you run into any issues.

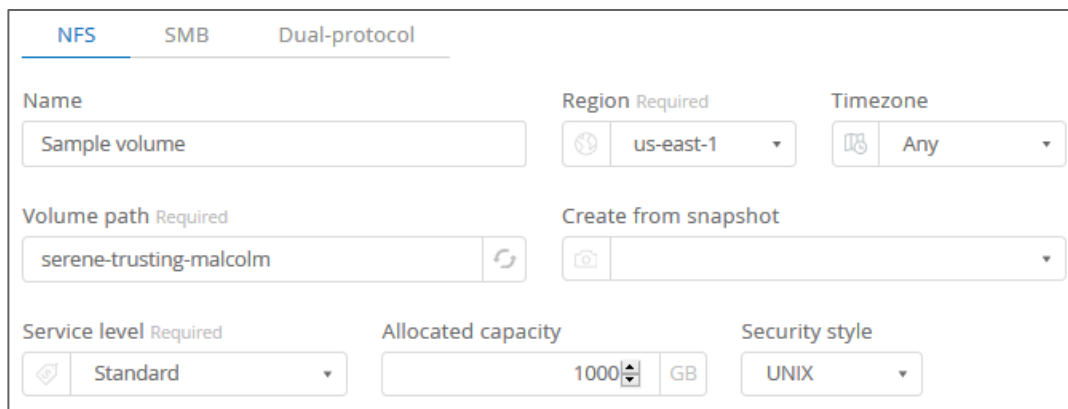
The steps below show how to populate the required fields to create a cloud volume. For information about the other optional sections and fields of the Create Volume page, go to the [Creating a cloud volume topic](#) in the NetApp Cloud Volumes Service for AWS documentation.

1. Select the same AWS region that you created on AWS from the top of the Cloud Volumes user interface, and then click the **Create new volume** button.



- In the top of the Create Volume page, select **NFS**, **SMB**, or **Dual-protocol**.
- Complete the following fields to define the volume name, size, service level, and more:

Field	Description
Name	The volume name
Region	The AWS region where you want to create the volume
Volume path	Specify the unique path you want to use, or accept the automatically generated path
Service level	Select Standard, Premium, or Extreme. See the description of available service levels for details
Allocated capacity	Set the initial size of the volume. See the description of allocated capacity for details
Security style	If you selected Dual-protocol, you can select NTFS or UNIX



The screenshot shows the 'Create Volume' form with the 'NFS' tab selected. The form contains the following fields and values:

- Name:** Sample volume
- Region:** Required, us-east-1
- Timezone:** Any
- Volume path:** Required, serene-trusting-malcolm
- Create from snapshot:** (empty)
- Service level:** Required, Standard
- Allocated capacity:** 1000 GB
- Security style:** UNIX

- If you selected SMB or Dual-protocol, you can enable SMB session encryption by checking the box for the **Enable data encryption** field.
- In the Network section, complete the following fields using the data you collected in section 5.6 to connect your Cloud Volumes account to your AWS account:

Field	Description
CIDR (IPv4)	Enter the desired IPv4 range for the region. The network must be a /28, and it must fall within the ranges reserved for private networks (RFC 1918)
Autonomous System Number (ASN)	When using a VGW in your AWS configuration, use that ASN. When using a Direct Connect Gateway, use that ASN
AWS account ID	Enter your 12-digit Amazon account identifier with no dashes

Network

You do not yet have your Cloud Volumes account connected to your AWS account. To connect these accounts we need your AWS network information. Please enter a valid Private network CIDR (RFC1918) with a /28 prefix that does not overlap with your existing networks. Also, ensure that the ASN you enter matches the ASN of the Direct Connect Gateway or Virtual Private Gateway to which the Virtual Interfaces will be attached. See the [Cloud Volumes Service for AWS Account Setup](#) document for details.

CIDR (IPv4) Required

172.30.0.0/28

Autonomous System Number (ASN) Required

64512

AWS account ID Required

122345567889

6. In the Export policy section, complete the following fields to identify the clients that can access the volume:

Field	Description
Allowed clients	Specify the allowed clients by using an IP address or Classless Inter-Domain Routing (CIDR)
Access	Select Read & Write or Read only
Protocol	If available, select the protocol

Export policy

+ Add export policy rule

Rule index

Allowed clients Required

Access

Protocol

Rule-1

0.0.0.0/0

Read & Write
Read only

NFSv3

"Allowed clients" will accept a comma separated list of IPs (v4) and/or cidrs. In most cases this is the private IP of your instance/VM. If using public IPs please be aware that they have to be reachable from the volume's network for the export policy to work correctly.

7. If you selected SMB or Dual-protocol, you can integrate the volume with an existing Windows Active Directory server by completing the fields in the Active directory section:

Field	Description
DNS server	Enter the IP address of the DNS server that you want to use
Domain	Enter the domain for the SMB share.
NetBIOS	Enter a NetBIOS name for the SMB server that will be created.
Username	Enter a username for your Active Directory server.
Password	Enter the password for the AD username that you specified in Username.

☐ Enable data encryption

Active directory

Available settings

\\cloudvol.NGS-AWS.io

DNS server Required

10.252.135.15

Domain Required

NGS-AWS.local

NetBIOS Required

cloudvol

Username Required

administrator

Password Required

.....

Note: You should follow the guidance on AWS security group settings to enable cloud volumes to integrate with Windows Active Directory servers correctly. See [AWS security group settings for Windows AD servers](#) for more information.

- In the Snapshot policy section, create a snapshot policy for this volume if required. You can create a snapshot policy after you have created the volume, so this step is not required at this time.
- Click the **Create Volume** button and a dialog prompts you to launch the AWS Management Console to accept the two virtual interface that will be used in this AWS region to connect all your cloud volumes.

Network and volume creation in progress...

Accepting virtual interfaces

1. Open the [AWS DirectConnect Management console](#).
2. Accept the virtual interfaces NetApp-CloudVolumes-1A and NetApp-CloudVolumes-2B, they should appear momentarily.
3. When accepting the virtual interfaces, make sure to attach them to the VirtualGateway/DirectConnect gateway with the ASN number you provided (64512).
4. Cloud Volumes will then attempt to establish a BGP session with your provided network configuration, this can take up to 10 minutes.
5. On successful completion, your new volume will be created.

Important:

You must accept the interfaces within 10 minutes after clicking the Create Volume button or the system may time out.

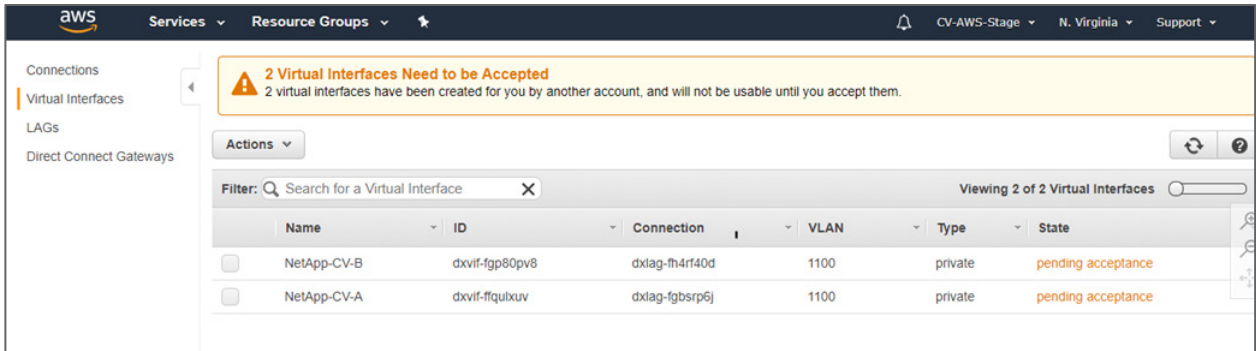
6.4 Accept the Direct Connect Virtual Interfaces

NetApp provides virtual interfaces for connectivity to the Cloud Volumes Service. These virtual interfaces must be accepted before they can be used.

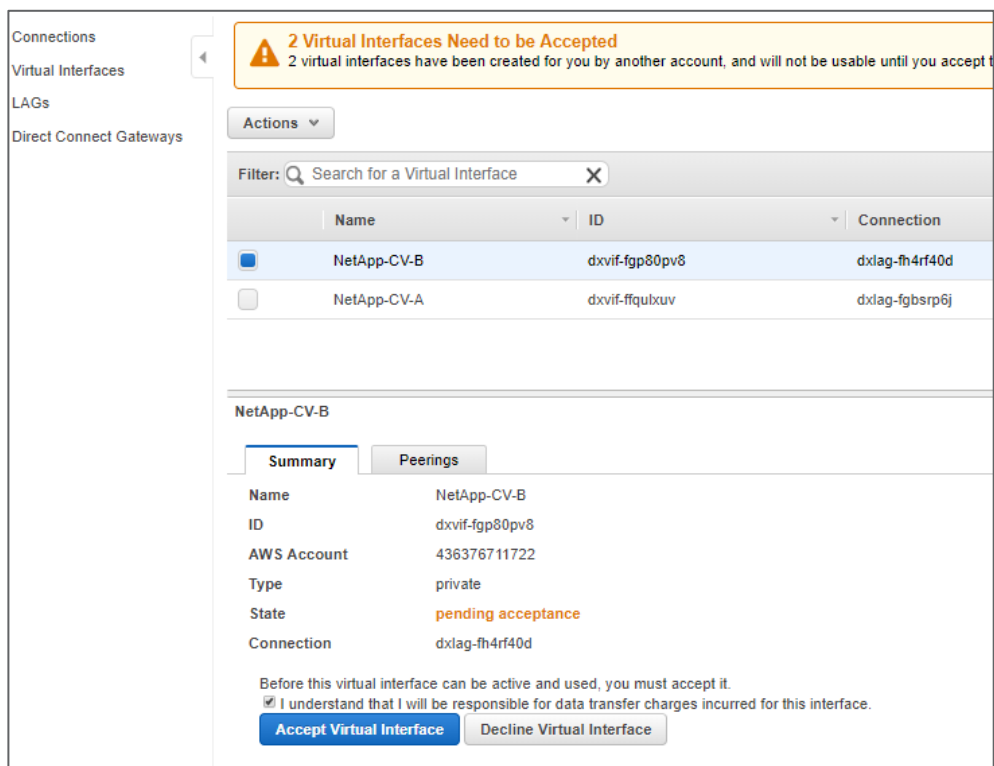
If the interfaces do not appear within 10 minutes there may be a configuration issue; in which case you should contact support.

To accept the virtual interfaces, complete the following steps:

1. From the AWS console for your account, navigate to the Direct Connect service and click **Virtual Interfaces**.



2. Select one of the virtual interfaces, check the box that you understand how you will be charged for this service, and click **Accept Virtual Interface**.



3. From the Accept Virtual Interface dialog, select whether you will connect the interfaces to the **Virtual Private Gateway** or **Direct Connect Gateway**, choose the gateway from the drop-down menu, and click **Accept**.

Note: If you created a Direct Connect Gateway, select **Direct Connect Gateway**.



4. Repeat steps 1 through 3 for each interface.
5. The state of the virtual interface initially goes to **down**, changes to **up**, and finally to **available**.
Note: It can take several minutes before the virtual interfaces become available.
6. Verify that the virtual interfaces are **available**.

Name	ID	Connection	VLAN	Type	State
NetAppCVS-PM-B	dxvif-fm4ubqv	dxlag-fguxo1ms	1022	private	available
NetAppCVS-PM-A	dxvif-fgbqfox3	dxlag-fg51xgdt	1022	private	available

7. After the interfaces become **available**, return to the Cloud Volumes Service user interface and verify that the new volume appears in the Volumes page and that the volume is listed as **Available**.
Note: It can take up to 10 minutes for routes to distribute through the AWS network before the volume becomes **Available**.

Name	Export path/s	Region	Allocated capacity	Created	Actions
Cloud_Volume_013	NFS: 172.16.80.36:/jolly-nostalgic-walsh	us-east	1 TB	2018-07-20 20:01:16	Available

8. Refer to the steps in the topic [Mounting a cloud volume](#) to mount the volume to your AWS instance.

7 Manage Cloud Volumes

To manage your volume, or to create additional cloud volumes, follow the instructions on [NetApp Cloud Volumes Service for AWS Documentation](#). For example, you can create a cloud volume, mount the volume, create a NetApp Snapshot™ copy of the volume, and more.

Support

For any questions about this document, about the initial AWS setup, or about the setup of your initial cloud volume, it is recommended that you send email to aws-bundles-support@netapp.com. Please provide a clear description of the question or problem you are experiencing. A NetApp engineer will assist and arrange a web conference as required.

Once you have successfully completed the steps in this document and provisioned your first volume, it is highly recommended that you perform the actions described in the topic [Activating support entitlement and accessing support](#) in order to further receive technical support for issues that may occur with future activities.

Where to Find Additional Information

To learn more about the information described in this document, refer to the following documents and/or websites:

- NetApp Cloud Volumes product page
<https://www.netapp.com/us/products/cloud-storage/cloud-volumes/index.aspx>

- NetApp Cloud Volumes Service for AWS documentation
https://docs.netapp.com/us-en/cloud_volumes/aws/
- NetApp Cloud Documentation
<https://docs.netapp.com/us-en/cloud/>

Version History

Version	Date	Document Version History
1.0	December 10, 2018	Initial release for self-subscription.
1.0.1	December 18	Update routing and Support content

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