



# **AWS administration**

## **Cloud Volumes ONTAP**

NetApp  
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# Table of Contents

- AWS administration ..... 1
  - Change the EC2 instance type for Cloud Volumes ONTAP..... 1
  - Change route tables for HA pairs in multiple AZs..... 1
  - Monitoring AWS resource costs ..... 2

# AWS administration

## Change the EC2 instance type for Cloud Volumes ONTAP

You can choose from several instance or types when you launch Cloud Volumes ONTAP in AWS. You can change the instance type at any time if you determine that it is undersized or oversized for your needs.

### About this task

- Automatic giveback must be enabled on a Cloud Volumes ONTAP HA pair (this is the default setting). If it isn't, then the operation will fail.

[ONTAP 9 Documentation: Commands for configuring automatic giveback](#)

- Changing the instance type can affect AWS service charges.
- The operation restarts Cloud Volumes ONTAP.

For single node systems, I/O is interrupted.

For HA pairs, the change is nondisruptive. HA pairs continue to serve data.



Cloud Manager gracefully changes one node at a time by initiating takeover and waiting for give back. NetApp's QA team tested both writing and reading files during this process and didn't see any issues on the client side. As connections changed, we did see retries on the I/O level, but the application layer overcame these short "re-wire" of NFS/CIFS connections.

### Steps

1. From the working environment, click the menu icon, and then select **Change instance**.
2. If you are using a node-based PAYGO license, you can optionally choose a different license.
3. Choose an instance type, select the check box to confirm that you understand the implications of the change, and then click **OK**.

### Result

Cloud Volumes ONTAP reboots with the new configuration.

## Change route tables for HA pairs in multiple AZs

You can modify the AWS route tables that include routes to the floating IP addresses for an HA pair that's deployed in multiple AWS Availability Zones (AZs). You might do this if new NFS or CIFS clients need to access an HA pair in AWS.

### Steps

1. From the working environment, click the menu icon and then click **Information**.
2. Click **Route Tables**.
3. Modify the list of selected route tables and then click **Save**.

### Result

Cloud Manager sends an AWS request to modify the route tables.

## Monitoring AWS resource costs

Cloud Manager enables you to view the resource costs associated with running Cloud Volumes ONTAP in AWS. You can also see how much money you saved by using NetApp features that can reduce storage costs.

### About this task

Cloud Manager updates the costs when you refresh the page. You should refer to AWS for final cost details.

### Step

1. Verify that Cloud Manager can obtain cost information from AWS:
  - a. Ensure that the IAM policy that provides Cloud Manager with permissions includes the following actions:

```
"ce:GetReservationUtilization",  
"ce:GetDimensionValues",  
"ce:GetCostAndUsage",  
"ce:GetTags"
```

These actions are included in the latest [Cloud Manager policy](#). New systems deployed from NetApp Cloud Central automatically include these permissions.

- b. [Activate the \*\*WorkingEnvironmentId\*\* tag](#).

To track your AWS costs, Cloud Manager assigns a cost allocation tag to Cloud Volumes ONTAP instances. After you create your first working environment, activate the **WorkingEnvironmentId** tag. User-defined tags don't appear on AWS billing reports until you activate them in the Billing and Cost Management console.

2. On the Canvas page, select a Cloud Volumes ONTAP working environment and then click **Cost**.

The Cost page displays costs for the current and previous months and shows your annual NetApp savings, if you enabled NetApp's cost-saving features on volumes.

The following image shows a sample Cost page:

# AWS Resource Costs

Learn how we calculate the costs and savings

Cloud Manager obtains AWS resource costs by using the AWS Cost Explorer service



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