



# **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..... 3
  - Monitoring AWS resource costs ..... 4

# 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.



BlueXP 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. On the Canvas page, select the working environment.
2. On the Overview tab, click the Features panel and then click the pencil icon next to **Instance type**.

Information	Features
Working Environment Tags	Tags 
Scheduled Downtime	Off 
S3 Storage Classes	Standard-Infrequent Access 
Instance Type	m5.xlarge 
Write Speed	Normal 
Ransomware Protection	Off 
Support Registration	Not Registered 
CIFs Setup	

- a. If you are using a node-based PAYGO license, you can optionally choose a different license and instance type by clicking the pencil icon next to **License type**.
3. Choose an instance type, select the check box to confirm that you understand the implications of the change, and then click **Change**.

## Result

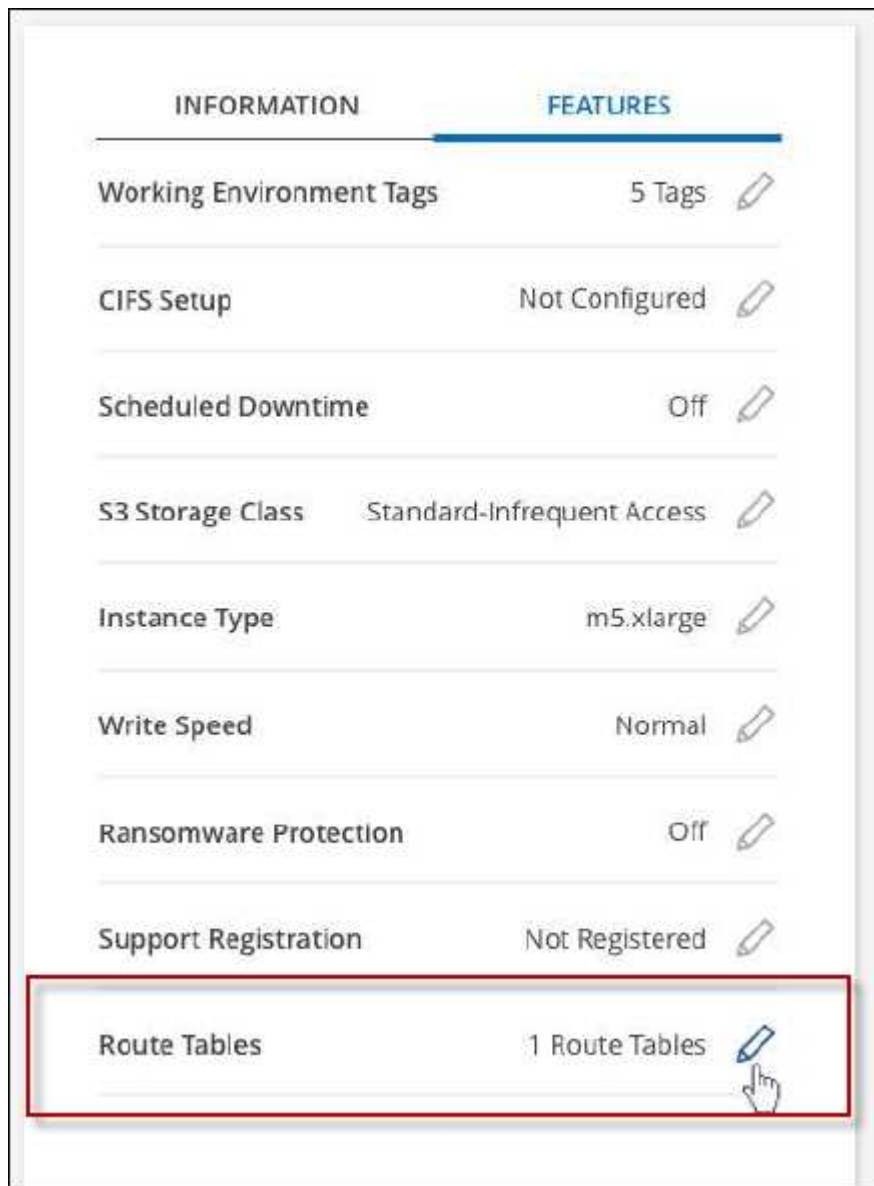
Cloud Volumes ONTAP reboots with the new configuration.

# 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. On the Canvas page, select the working environment.
2. On the Overview tab, click the Features panel and then click the pencil icon next to **Route tables**.



3. Modify the list of selected route tables and then click **Save**.

## Result

BlueXP sends an AWS request to modify the route tables.

# Monitoring AWS resource costs

BlueXP 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

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

## Step

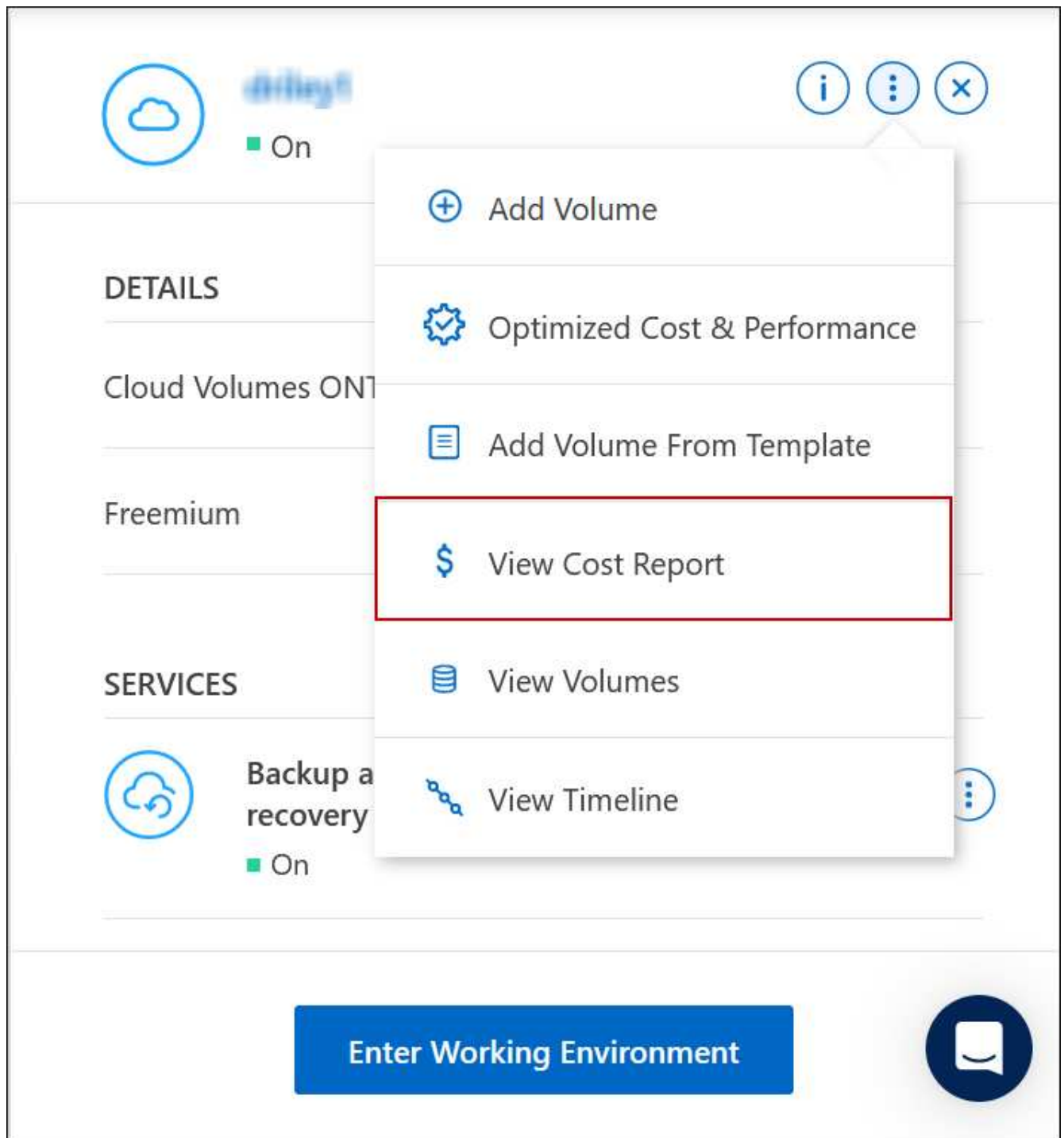
1. Verify that BlueXP can obtain cost information from AWS:
  - a. Ensure that the IAM policy that provides BlueXP with permissions includes the required permissions.

[View the required permissions](#)

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

To track your AWS costs, BlueXP 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.

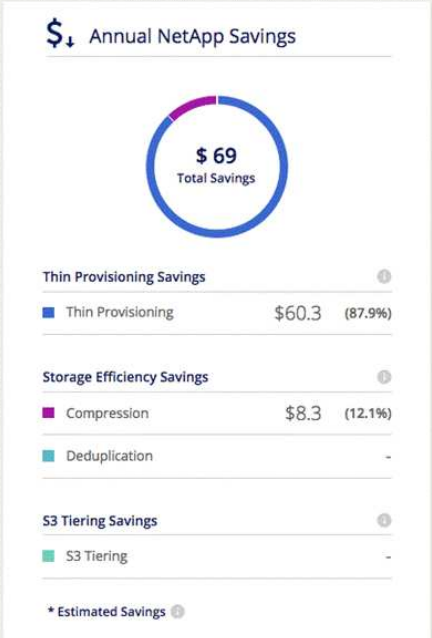
2. From the left navigation menu, select **Storage > Canvas**.
3. On the Canvas page, select a Cloud Volumes ONTAP working environment,
4. Click the menu icon, and then click **View Cost Report**.



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:

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





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