



Backing up data to Amazon S3

Cloud Manager

Ben Cammett, Tom Onacki

August 25, 2020

This PDF was generated from https://docs.netapp.com/us-en/occm/task_backup_to_s3.html on November 10, 2020.
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Backing up data to Amazon S3

Complete a few steps to get started backing up data from Cloud Volumes ONTAP to Amazon S3.

Quick start

Get started quickly by following these steps or scroll down to the remaining sections for full details.

1 Verify support for your configuration

- You're running Cloud Volumes ONTAP 9.6 or later in AWS.
- You have subscribed to the [Cloud Manager Marketplace Backup offering](#), or you have purchased [and activated](#) a Backup to Cloud BYOL license from NetApp.
- The IAM role that provides Cloud Manager with permissions includes S3 permissions from the latest [Cloud Manager policy](#).

2 Enable Backup to Cloud on your new or existing system

- New systems: Backup to Cloud is enabled by default in the working environment wizard. Be sure to keep the option enabled.
- Existing systems: Select the working environment and click **Activate** next to the Backup to Cloud service in the right-panel, and then follow the setup wizard.



3 Define the backup policy

The default policy backs up volumes every day and retains the most recent 30 backup copies of each volume. Change to weekly or monthly backups, or select one of the system-defined policies that provide more options. You can also change the number of backup copies to retain.

Define Policy

Policy - Retention & Schedule

☒ Create a New Policy
 ☐ Select an Existing Policy

Backup Every

Day

Number of backups to retain

30

DP Volumes

Data protection volume backups use the same retention period as defined in the source SnapMirror relationship by default. Use the API if you want to change this value

Information

Backup_Bucket_Name

Bucket Name

4 Select the volumes that you want to back up

Identify which volumes you want to back up in the Select Volumes page.

5 Restore your data, as needed

From the Backup List, select a volume, select a backup, and then restore data from the backup to a new volume.

Volume Source Name

Select the backup you want to restore

May 22 2019 00:00:00

May 21 2019 00:00:00

May 20 2019 00:00:00

Restore

Requirements

Read the following requirements to make sure that you have a supported configuration before you start backing up volumes to S3.

Supported ONTAP versions

Cloud Volumes ONTAP 9.6 and later.

Supported AWS regions

Backup to Cloud is supported in all AWS regions [where Cloud Volumes ONTAP is supported](#).

License requirements

For Backup to Cloud PAYGO licensing, a Cloud Manager subscription is available in the AWS Marketplace that enables deployments of Cloud Volumes ONTAP 9.6 and later (PAYGO) and Backup to Cloud. You need to [subscribe to this Cloud Manager subscription](#) before you enable Backup to Cloud. Billing for Backup to Cloud is done through this subscription.

For Backup to Cloud BYOL licensing, you do not need an AWS Backup to Cloud subscription. You need the serial number from NetApp that enables you to use the service for the duration and capacity of the license. See [Adding and updating your Backup BYOL license](#).

And you need to have a AWS subscription for the storage space where your backups will be located.

AWS permissions required

The IAM role that provides Cloud Manager with permissions must include S3 permissions from the latest [Cloud Manager policy](#).

Here are the specific permissions from the policy:

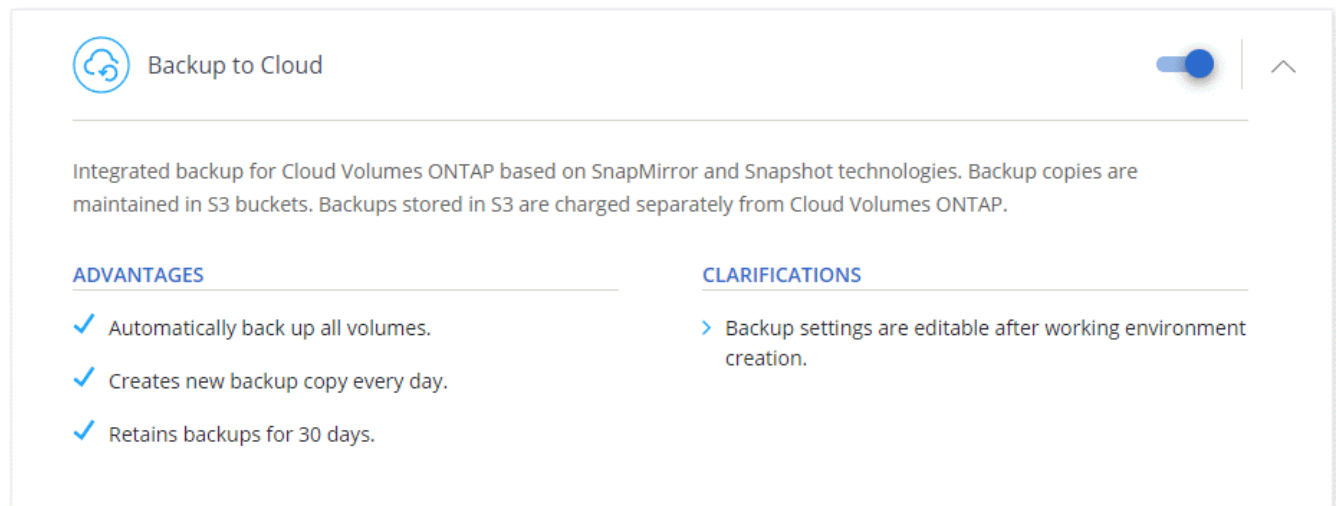
```
{
  "Sid": "backupPolicy",
  "Effect": "Allow",
  "Action": [
    "s3:DeleteBucket",
    "s3:GetLifecycleConfiguration",
    "s3:PutLifecycleConfiguration",
    "s3:PutBucketTagging",
    "s3:ListBucketVersions",
    "s3:GetObject",
    "s3:ListBucket",
    "s3:ListAllMyBuckets",
    "s3:GetBucketTagging",
    "s3:GetBucketLocation",
    "s3:GetBucketPolicyStatus",
    "s3:GetBucketPublicAccessBlock",
    "s3:GetBucketAcl",
    "s3:GetBucketPolicy",
    "s3:PutBucketPublicAccessBlock"
  ],
  "Resource": [
    "arn:aws:s3:::netapp-backup-*"
  ]
}
```

Enabling Backup to Cloud on a new system

Backup to Cloud is enabled by default in the working environment wizard. Be sure to keep the option enabled.

Steps

1. Click **Create Cloud Volumes ONTAP**.
2. Select Amazon Web Services as the cloud provider and then choose a single node or HA system.
3. Fill out the Details & Credentials page.
4. On the Services page, leave the service enabled and click **Continue**.



5. Complete the pages in the wizard to deploy the system.

Result

Backup to Cloud is enabled on the system and backs up volumes every day and retains the most recent 30 backup copies.

What's next?

[You can manage backups by changing the backup schedule, restoring volumes, and more.](#)

Enabling Backup to Cloud on an existing system

Enable Backup to Cloud at any time directly from the working environment.

Steps

1. Select the working environment and click **Activate** next to the Backup to Cloud service in the right-panel.



2. Define the backup schedule and retention value and click **Continue**.

Define Policy

Policy - Retention & Schedule
☒ Create a New Policy
 ☐ Select an Existing Policy

Backup Every: Day
 Number of backups to retain: 30

DP Volumes

Data protection volume backups use the same retention period as defined in the source SnapMirror relationship by default. Use the API if you want to change this value

Information

Backup_Bucket_Name
Bucket Name

See [the list of existing policies](#).

3. Select the volumes that you want to back up and click **Activate**.

Select Volumes

57 Volumes

<input checked="" type="checkbox"/>	Volume Name	Volume Type	Disk Type	SVM Name	Used Capacity	Allocated Capacity	Volume Status
<input checked="" type="checkbox"/>	Volume_Name_1	RW	GP2	SVM_Name_1	2.25 TB	10 TB	Active
<input checked="" type="checkbox"/>	Volume_Name_2	RW	GP2	SVM_Name_2	2.25 TB	10 TB	Active
<input checked="" type="checkbox"/>	Volume_Name_3	RW	GP2	SVM_Name_3	2.25 TB	10 TB	Active
<input checked="" type="checkbox"/>	Volume_Name_4	DP ⓘ	GP2	SVM_Name_4	2.25 TB	10 TB	Active
<input checked="" type="checkbox"/>	Volume_Name_5	RW	GP2	SVM_Name_5	2.25 TB	10 TB	Active

Result

Backup to Cloud starts taking the initial backups of each selected volume.

What's next?

You can manage backups by changing the backup schedule, restoring volumes, and more.

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