



# **Back up data using the Cloud Backup Service**

## **ONTAP 9**

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# Back up data using the Cloud Backup Service

Starting with ONTAP 9.9.1, you can use System Manager to back up data in the cloud using Cloud Backup Service.



Cloud Backup Service supports FlexVol read-write volumes and data-protection (DP) volumes. FlexGroup volumes and SnapLock volumes are not supported.

## Before you begin

You should perform the following procedures to establish an account in Cloud Manager.

1. [Create an account in Cloud Manager](#).
2. [Create a connector in Cloud Manager](#) with one of the following cloud providers:
  - Microsoft Azure
  - Amazon Web Services (AWS)
  - Google Cloud Platform (GCP)
3. [Subscribe to Cloud Backup Service in Cloud Manager](#) (requires the appropriate license).
4. [Generate an access key and a secret key using Cloud Manager](#).

## Register the cluster with Cloud Manager

You can register the cluster with Cloud Manager by using either Cloud Manager or System Manager.

### Steps

1. In System Manager, go to **Protection Overview**.
2. Under **Cloud Backup Service**, provide the following details:
  - Client ID
  - Client secret key
3. Select **Register and Continue**.

## Enable the Cloud Backup Service

After the cluster is registered with Cloud Manager, you can enable the Cloud Backup Service and initiate the first backup to the cloud.

### Steps

1. On the **Enable Cloud Backup Service** page, provide the following details:
  - Protection policy (an existing or new policy)
  - Cluster IP space
2. Select the checkbox if you want to back up all volumes in the cluster.
3. Select **Enable**.
4. Depending on which Cloud provider you specified, you need to provide specific information, as follows:

| For this cloud provider... | Enter the following data...  |
|----------------------------|--|
| Azure                      | <ul style="list-style-type: none"> <li>• Azure Subscription ID</li> <li>• Resource group name (existing or new)</li> <li>• Region</li> <li>• IPspace</li> </ul>                          |
| AWS                        | <ul style="list-style-type: none"> <li>• AWS Account ID</li> <li>• Access key</li> <li>• Secret key</li> <li>• Region</li> <li>• IPspace</li> </ul>                                      |
| Google Cloud Project (GCP) | <ul style="list-style-type: none"> <li>• Google Cloud Project name</li> <li>• Google Cloud Access key</li> <li>• Google Cloud Secret key</li> <li>• Region</li> <li>• IPspace</li> </ul> |

## Protect new volumes or LUNs on the cloud

When you create a new volume or LUN, you can establish a SnapMirror protection relationship that enables backing up to the cloud for the volume or LUN.

### Before you begin

- You should have a SnapMirror license.
- The WORM feature should be disabled.
- Intercluster LIFs should be configured.
- NTP should be configured.
- Cluster must be running ONTAP 9.9.1.
- You cannot use the feature for the following cluster configurations:
  - The cluster cannot be in a MetroCluster environment.
  - SVM-DR is not supported.
  - FlexGroups cannot be backed up using the Cloud Backup Service.

### Steps

1. When provisioning a volume or LUN, on the **Protection** page, select the checkbox labeled **Enable SnapMirror (Local or Remote)**.
2. Select **Enable Cloud Backup Service**.

# Protect existing volumes or LUNs on the cloud

You can establish a SnapMirror protection relationship for existing volumes and LUNs.

## Steps

1. Select an existing volume or LUN, and click **Protect**.
2. On the **Protect Volumes** page, specify "Backup using Cloud Backup Service" for the protection policy.
3. Click **Protect**.
4. On the **Protection** page, select the checkbox labeled **Enable SnapMirror (Local or Remote)**.
5. Select **Enable Cloud Backup Service**.

## Restore data from backup files

You can perform backup management operations, such as restoring data, updating relationships, and deleting relationships, only with Cloud Manager. Refer to [Restoring data from backup files](#) for more information.

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