



## **Manage snapshots**

### **Amazon FSx for NetApp ONTAP**

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# Manage snapshots

## Create a manual snapshot of an FSx for ONTAP volume

Create a manual snapshot of an FSx for ONTAP volume. Snapshots are point-in-time versions of your volume's content.

Snapshots are resources of volumes and are instant captures of your data that consume space only for modified data. Because data changes over time, snapshots usually consume more space as they get older.

FSx for ONTAP volumes use just-in-time copy-on-write so that any unmodified files in snapshots don't consume any of the volume's capacity.



Snapshots aren't copies of your data. If you want to make copies of your data, consider using the FSx for ONTAP backups or volume replication features.

### Before you begin

You must [associate a link](#) to create a snapshot. If you don't have an existing link, [create a link](#). To associate a link in the file system, click **Associate link** under **Account name**. Once the link associates, return to this operation.

### Steps

1. Log in to the [Workload Factory console](#)
2. In **Storage**, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system with the volume and then select **Manage**.
4. In the file system overview, select the **Volumes** tab.
5. From the **Volumes** tab, select the three dots menu for the volume to protect.
6. Select **Data protection actions**, **Snapshots**, then **Create volume from a snapshot**.
7. In the Create volume from a snapshot dialog, in the **Snapshot name** field, enter a snapshot name.
8. Click **Create**.

## Create a snapshot policy for FSx for ONTAP volumes

Create a custom snapshot policy for FSx for ONTAP volumes. A snapshot policy defines how the system creates snapshots for a volume.

### About this task

You can create a custom snapshot policy that differs from the three built-in snapshot policies for FSx for ONTAP:

- default
- default-1weekly
- none

By default, every volume is associated with the file system's `default` snapshot policy. We recommend using

this policy for most workloads.

Customizing a policy lets you specify when to create snapshots, how many copies to retain, and how to name them.

### Before you begin

- Consider the following about snapshot capacity before you use snapshots:
  - For most datasets, an additional capacity of 20% is enough to keep snapshots for up to four weeks. As data gets older, its use for restorations becomes less likely.
  - Overwriting all the data in a snapshot consumes significant volume capacity, which factors into provisioning volume capacity.
- To create a custom snapshot policy, you must [associate a link](#). If you don't have an existing link, [create a link](#). To associate a link in the file system, click **Associate link** under **Account name**. Once the link associates, return to this operation.

### Steps

1. Log in to the [Workload Factory console](#)
2. In **Storage**, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system with the volume and then select **Manage**.
4. In the file system overview, select the **Volumes** tab.
5. From the **Volumes** tab, select the three dots menu for the volume to protect with scheduled snapshots.
6. Select **Data protection actions**, **Snapshots**, then **Manage snapshot policies**.
7. On the Snapshot policy management page, select **Create a new snapshot policy**.
8. In the **Snapshot policy name** field, enter a name for the snapshot policy.
9. Optional: in the **Description** field, enter a description for the snapshot policy.
10. Under **Schedule**, select when to create snapshots. For example, every minute or hourly.

You can select more than one frequency.

11. Under **Number of copies**, enter the number of copies to retain.

The maximum number of copies is 1,023.

12. Optional: Under **Naming convention**, enter a **Prefix** for the policy.

13. **Retention label** is automatically populated.

This label refers to the SnapMirror, or replication label, used to select only specified snapshots for replication from the source to the target file system.

14. Click **Apply**.

## Restore a volume from a snapshot

Restore an FSx for ONTAP volume from a snapshot when the volume contains deleted or corrupted files.

### About this task

This operation restores data from a snapshot to a new volume.

### Before you begin

You can only restore a volume from a snapshot if you have an existing snapshot copy of the volume.

Make sure you have enough capacity to complete this operation.

### Steps

1. Log in to the [Workload Factory console](#)
2. In **Storage**, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system with the volume and then select **Manage**.
4. In the file system overview, select the **Volumes** tab.
5. From the **Volumes** tab, select the three dots menu for the volume to restore from a snapshot.
6. Select **Data protection actions**, **Snapshots**, then **Restore volume from a snapshot**.
7. In the Restore volume from a snapshot dialog, in the **Snapshot name** field, select the snapshot to restore from the dropdown menu.
8. In the **Restored volume name** field, enter a unique name for the volume to restore.
9. Click **Restore**.

## Create a new FSx for ONTAP volume from a snapshot

Create a new FSx for ONTAP volume from a snapshot to enable point-in-time recovery.

### About this task

A snapshot is a read-only image of an FSx for ONTAP volume taken at a point in time. The creation of a new volume from a snapshot makes a copy of an entire volume within a few seconds independent of volume size. The newly created copy represents a new volume.

### Before you begin

Consider the following limitations before you create a volume from a snapshot:

- Changes to permission models: If you use this operation to switch the network-attached storage (NAS) protocol type, it might also switch the permission model that the security style provides. You might experience file access permission issues, which you can only fix manually with administrator access using the NAS client tools for permissions setting.
- Increased volume consumption: After you create a volume from a snapshot, you have two independent volumes, and both consume capacity from the host file system.

### Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system with the volume snapshot and then select **Manage**.
4. In the file system overview, select the **Volumes** tab.
5. In the Volumes tab, click the three dots menu for the volume that has the snapshot you want to create a volume of.

6. Select **Data protection actions, Snapshots**, and then **Create a volume from a snapshot**.
7. In the Create volume from a snapshot dialog, enter the snapshot name.
8. Click **Create**.

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