



Snapshots

Amazon FSx for NetApp ONTAP

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Snapshots

Manage snapshot policies

Manage snapshot policies for FSx for ONTAP volumes in Workload Factory. A snapshot policy defines how the system creates snapshots for a volume.

About this task

Snapshot management operations like assigning, changing, and deleting snapshot policies for volumes in an FSx for ONTAP file system are managed at the storage VM level. Snapshot policies can be shared with a single storage VM or with all storage VMs.

Some management tasks require you to associate a link with the FSx for ONTAP file system. [Learn about Workload Factory links](#).

By default, every volume is associated with the file system's default snapshot policy. We recommend using this policy for most workloads.

Change a snapshot policy

You can change the snapshot policy name, schedule, and number of copies to retain, and enable or disable immutable snapshots. It isn't possible to enable or disable policy sharing across storage VMs. This option is available only during snapshot policy creation.

Before you begin

To display existing snapshot policies, you must associate a link. [Learn how to associate an existing link or to create and associate a new link](#). After the link associates, return to this operation.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. In the **FSx for ONTAP** tab, select the actions menu of the file system and then select **Manage**.
4. In the file system overview, select the **Storage VMs** tab.
5. From the **Storage VMs** tab, select the actions menu for the storage VM containing the volume to protect with scheduled snapshots, then **Advanced actions**, and then **Manage snapshot policies**.
6. On the Snapshot policy management page, select the actions menu for the snapshot policy to change and then select **Edit**.
7. In the Edit snapshot policy dialog, make the necessary changes to the snapshot policy.
8. Select **Apply**.

Result

The snapshot policy is updated.

Enable immutable snapshots

Lock snapshots to prevent them from being deleted during the retention period.

Before you begin

You must associate a link to enable immutable snapshots. [Learn how to associate an existing link or to create and associate a new link](#). After the link associates, return to this operation.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. In the **FSx for ONTAP** tab, select the actions menu of the file system that contains the volume to lock snapshots for and then select **Manage**.
4. In the file system overview, select the **Volumes** tab.
5. From the **Volumes** tab, select the actions menu for the volume to protect.
6. Select **Data protection actions**, **Snapshots**, then **Make a snapshot immutable**.
7. In the Make a snapshot immutable dialog, do the following:
 - a. **Snapshot name**: Select the snapshot to lock.
 - b. Set the **Retention period** in number of hours, days, months, or years.
 - c. Accept the statement.
8. Select **Apply**.

Result

The volume snapshot is now locked.

Assign a snapshot policy to a volume

You can assign a snapshot policy to a single volume to create scheduled snapshots for the volume.

Before you begin

You must associate a link to assign a snapshot policy. [Learn how to associate an existing link or to create and associate a new link](#). After the link associates, return to this operation.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. In the **FSx for ONTAP** tab, select the actions menu of the file system that contains the volume to assign a snapshot policy to and then select **Manage**.
4. In the file system overview, select the **Storage VMs** tab.
5. From the **Storage VMs** tab, select the actions menu for the storage VM containing the volume to protect with scheduled snapshots, then **Advanced actions**, and then **Manage snapshot policies**.
6. On the Snapshot policy management page, select the actions menu of the snapshot policy and then select **Assign policy to volume**.
7. In the Assign snapshot policy dialog, select a snapshot policy to assign to the volume and review the policy schedule.
If the policy contains immutable snapshots, and you want use it, accept the statement.
8. Select **Assign**.

Result

The snapshot policy is assigned to the volume.

Remove a snapshot policy from a volume

Remove a snapshot policy from a volume because you no longer want snapshots of the volume or because you want to delete a snapshot policy that is assigned to multiple volumes. To [delete a snapshot policy](#) that is assigned to more than one volume, you must manually remove it from all volumes.

Before you begin

You must associate a link to remove a snapshot policy. [Learn how to associate an existing link or to create and associate a new link](#). After the link associates, return to this operation.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. In the **FSx for ONTAP** tab, select the actions menu of the file system that contains the volume to assign a snapshot policy to and then select **Manage**.
4. In the file system overview, select the **Storage VMs** tab.
5. From the **Storage VMs** tab, select the actions menu for the storage VM containing the volume to protect with scheduled snapshots, then **Advanced actions**, and then **Manage snapshot policies**.
6. On the Snapshot policy management page, select the actions menu of the snapshot policy and then select **Assign policy to volume**.
7. In the Assign snapshot policy dialog, select **None** to remove the snapshot policy.
8. Select **Assign**.

Result

The snapshot policy is removed from the volume.

Delete a snapshot policy

Delete a snapshot policy when you no longer need it.

When a snapshot policy is assigned to more than one volume, you must manually [remove it](#) from all volumes to delete the snapshot policy. Alternatively, you can [assign a different snapshot policy](#) to the volumes.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, select the actions menu of the file system with the volume and then select **Manage**.
5. In the file system overview, select the **Storage VMs** tab.
6. From the **Storage VMs** tab, select the actions menu of the storage VM with the snapshot policy to delete, then **Advanced actions**, and then **Manage snapshot policies**.
7. On the Snapshot policy management page, select the actions menu for the snapshot policy to delete and then select **Delete**.
8. In the Delete dialog, select **Delete** to delete the policy.

Enable and edit snapshots for long-term retention

In NetApp Workload Factory, you can enable snapshots for long-term retention, which lets you replicate specific snapshots for long-term disaster recovery.

Long-term retention enables business services to continue operating even in the event of a complete site failure, supporting transparent failover of applications using a secondary copy.

The same steps apply for enabling and editing snapshots for long-term retention.

When an on-premises ONTAP cluster is the target for the replication relationship, changing snapshots for long-term retention isn't supported.



Editing long-term retention isn't available when replicating storage VM data and configuration settings.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, select the actions menu of the file system to update and then select **Manage**.
5. From the file system overview, select the **Replication relationships** tab.
6. In the Replication relationships tab, select the actions menu of the replication relationship schedule to change.
7. Select **Edit long-term retention**.
8. In the Edit long-term retention dialog, enable or disable snapshots for long-term retention.
9. If you select to disable snapshots for long-term retention, select **Apply** to complete this operation.
10. If you select to enable snapshots for long-term retention, choose between selecting an existing policy or creating a new policy.
 - a. To use an existing policy, select it from the dropdown menu.
 - b. To create a new policy, provide the following:
 - i. **Policy name:** Enter a policy name.
 - ii. **Snapshot policies:** Select one or more snapshot policies.
 - iii. **Copies to retain:** Enter the number of snapshot copies to retain on the target file system.
11. Select **Apply**.

Manage snapshots of an FSx for ONTAP volume

Edit snapshot settings, enable directory access, and delete snapshots to manage your snapshots and data protection in Workload Factory.

Edit a snapshot

Edit the name, label, and retention period of a snapshot. If the snapshot isn't already immutable, you can make the snapshot immutable.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, select the actions menu of the file system with the volume and then select **Manage**.
5. In the file system overview, select the **Volumes** tab.
6. From the **Volumes** tab, select the actions menu for the volume with the snapshot to edit.
7. Select **Data protection actions** and then **Manage snapshots**.
8. From the Manage snapshots page, select the actions menu for the snapshot to edit, and then select **Edit**.
9. In the Edit a snapshot dialog, you may edit the following:
 - a. Change the name.
 - b. Change the label.
 - c. Change the retention period.
 - d. Optional: **Make this snapshot immutable** to prevent the snapshot from being deleted during the retention period.

If the snapshot is already immutable, you can't edit this setting.

Accept the statement regarding immutable snapshots.

10. Select **Apply**.

Access a snapshot

Enable snapshot directory access to give users the ability access snapshots autonomously.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, select the actions menu of the file system with the volume and then select **Manage**.
5. In the file system overview, select the **Volumes** tab.
6. From the **Volumes** tab, select the actions menu for the volume with the snapshot to access.
7. Select **Data protection actions** and then **Manage snapshots**.
8. From the Manage snapshots page, select the actions menu for the snapshot to access, and then select **Access**.
9. In the Access snapshot dialog, select to **Enable snapshot directory access** to access this volume snapshot and all snapshots of the volume.
 - For NFS volumes: Select **NFS access path** to view the NFS path for the snapshot.
 - For SMB/CIFS volumes: Select **SMB access path** to view the SMB path for the snapshot.
10. Copy the access path.
11. Select **Apply**.

Restore data from a snapshot

You have the option to restore data from a snapshot to an existing volume or to a new volume.

[Restore a volume from a snapshot](#)

Delete a snapshot

Delete a snapshot to free up space.

Immutable snapshots cannot be deleted until the retention period ends.

Steps

1. Log in using one of the [console experiences](#).
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, select the actions menu of the file system with the volume and then select **Manage**.
5. In the file system overview, select the **Volumes** tab.
6. From the **Volumes** tab, select the actions menu for the volume with the snapshot to delete.
7. Select **Data protection actions** and then **Manage snapshots**.
8. From the Manage snapshots page, select the actions menu for the snapshot to delete, and then select **Delete**.
9. In the Delete snapshot dialog, type "delete".
10. Select **Delete** to confirm deletion.

Related information

- [Create a snapshot](#)
- [Create a snapshot policy](#)
- [Restore a volume from a snapshot](#)

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