



# Storage VM administration

## Amazon FSx for NetApp ONTAP

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# Storage VM administration

## Replicate a storage VM to another FSx for ONTAP file system

Replicating a storage VM to another FSx for ONTAP file system provides a protective layer of data access in case of data loss. This operation replicates all volumes in one storage VM to another FSx for ONTAP file system.

### Before you begin

To replicate a storage VM to another FSx for ONTAP file system, 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, select the three dots menu of the file system with the storage VM to replicate and then select **Manage**.
4. From the file system overview, select the **Storage VMs** tab.
5. From the Storage VMs tab, select the three dots menu of the storage VM to replicate an SVM for.
6. Select **Replicate storage VM**.
7. On the Create replication page, under Replication target, provide the following:
  - a. **FSx for ONTAP file system**: Select credentials, region, and FSx for ONTAP file system name for the target FSx for ONTAP file system.
  - b. **Storage VM name**: Select the storage VM from the dropdown menu.
  - c. **Volume name**: The target volume name is generated automatically with the following format `{OriginalVolumeName}_copy`.
  - d. **Tiering policy**: Select the tiering policy for the data stored in the target volume.  
  
*Auto* is the default tiering policy when creating a volume using the Workload Factory FSx for ONTAP user interface. For more information about volume tiering policies, refer to [Volume storage capacity](#) in AWS FSx for NetApp ONTAP documentation.
  - e. **Max transfer rate**: Select **Limited** and enter the max transfer limit in MB/s. Alternatively, select **Unlimited**.  
  
Without a limit, network and application performance may decline. Alternatively, we recommend an unlimited transfer rate for FSx for ONTAP file systems for critical workloads, for example, those that are used primarily for disaster recovery.
8. Under Replication settings, provide the following:
  - a. **Replication interval**: Select the frequency that snapshots are transferred from the source volume to the target volume.
  - b. **Long-term retention**: Optionally, enable snapshots for long-term retention.

If you enable long-term retention, then select an existing policy or create a new policy to define the snapshots to replicate and the number to retain.

- i. For **Choose an existing policy**, select an existing policy from the dropdown menu.
- ii. For **Create a new policy**, provide the following:
  - A. **Policy name**: Enter a policy name.
  - B. **Snapshot policies**: In the table, select the snapshot policy frequency and the number of copies to retain. You can select more than one snapshot policy.

9. Click **Create**.

## Result

All volumes within the storage VM are replicated to the target file system.

# Configure and update Active Directory for a storage VM

Configure and update Active Directory for a storage VM in an FSx for ONTAP file system.

## About this task

The same steps apply for configuring and updating Active Directory for a storage VM.

## Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, select the three dots menu of the file system with the storage VM to update and then select **Manage**.
4. From the file system overview, select the **Storage VMs** tab.
5. From the Storage VMs tab, select the three dots menu of the storage VM to configure Active Directory for.
6. Select **Manage AD configuration**.
7. On the Manage AD configuration page, provide the following:
  - a. **Active Directory domain to join**: Enter the fully qualified domain name (FQDN) of your Active Directory.
  - b. **DNS IP addresses**: Enter up to three IP addresses separated by commas.
  - c. **SMB server NetBIOS name**: Enter the SMB server NetBIOS name of the Active Directory computer object to create for your storage VM. This is the name of this SVM in Active Directory.
  - d. **User name**: Enter the user name of the service account in your existing Active Directory.

Do not include a domain prefix or suffix. For `EXAMPLE\ADMIN`, use `ADMIN`.

- e. **Password**: Enter the password for the service account.
- f. **Organization unit (OU)**: Enter the organization unit.

The OU is the distinguished path name of the organizational unit to which you want to join your file system.

- g. **Delegated administrators group**: Optionally, enter the delegated file system administrators group.

The deleted administrators group is the name of the group in your Active Directory that can administer your file system.

If you are using AWS Managed Microsoft AD, you must specify a group such as AWS Delegated FSx Administrators, AWS Delegated Administrators, or a custom group with delegated permissions to the OU.

If you are joining to a self-managed AD, use the name of the group in your AD. The default group is `Domain Admins`.

8. Click **Apply**.

## Edit storage VM tags

Tags can help you categorize your resources. You can add, edit, and remove tags for a storage VM at any time.

### Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, select the three dots menu of the file system with the storage VM to update and then select **Manage**.
4. From the file system overview, select the **Storage VMs** tab.
5. From the Storage VMs tab, select the three dots menu of the storage VM to edit tags for.
6. Select **Edit storage VM tags**.
7. On the Edit storage VM tags page, add, edit, or remove tags.

The maximum number of tags you can apply to a storage VM is 50.

8. Click **Apply**.

## Delete a storage VM

Delete a storage VM (SVM) that you no longer require from an FSx for ONTAP file system configuration.

### Before you begin

Review the following before you delete a storage VM:

- Make sure that no applications are accessing the data in the SVM.
- Delete all non-root volumes attached to the SVM.

### 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 to update and then select **Manage**.
4. From the file system overview, select the **Storage VMs** tab.

5. In the Storage VMs tab, select the three dots menu of the storage VM to configure Active Directory for.
6. Select **Delete storage VM**.
7. In the Delete storage VM dialog, type “delete” to delete the storage VM.
8. Click **Delete**.

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