SnapVault backup configuration workflow

System Manager Classic

NetApp
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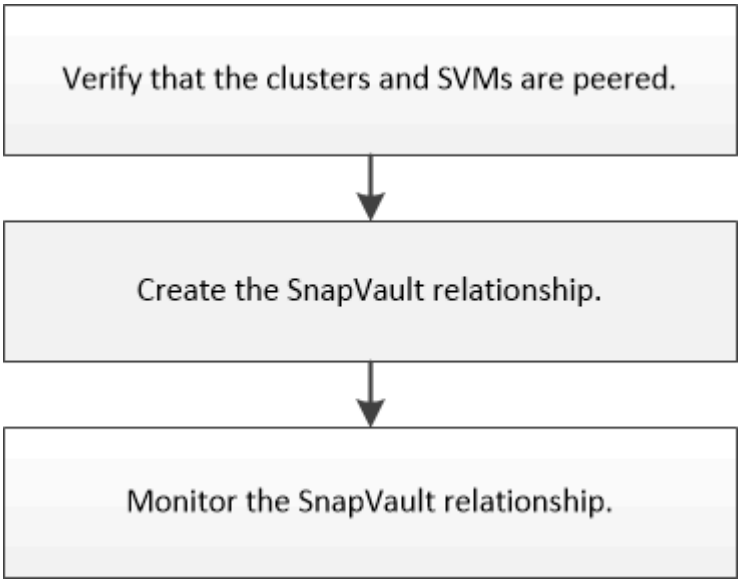
SnapVault backup configuration workflow

Configuring a SnapVault backup relationship includes verifying the cluster peer relationship, creating the SnapVault relationship between the source and the destination volumes, and monitoring the SnapVault relationship.



Additional documentation is available to help you restore data from a destination volume to test the backed-up data or when the source volume is lost.

- Volume restore management using SnapVault

  Describes how to quickly restore a volume from a SnapVault backup in ONTAP

Verify cluster peer relationship and SVM peer relationship

Before you set up a volume for data protection by using SnapVault technology, you must verify that the source cluster and destination cluster are peered and are communicating with each other through the peer relationship. You must also verify that the source SVM and destination SVM are peered and are communicating with each other through the peer relationship.

About this task

You must perform this task from the **source** cluster.

Procedure

- If you are running ONTAP 9.3 or later, perform the following steps to verify the cluster peer relationship and SVM peer relationship:
  a. Click **Configuration** > **Cluster Peers**.
  b. Verify that the peered cluster is authenticated and is available.

c. Click **Configuration** > **SVM Peers**.

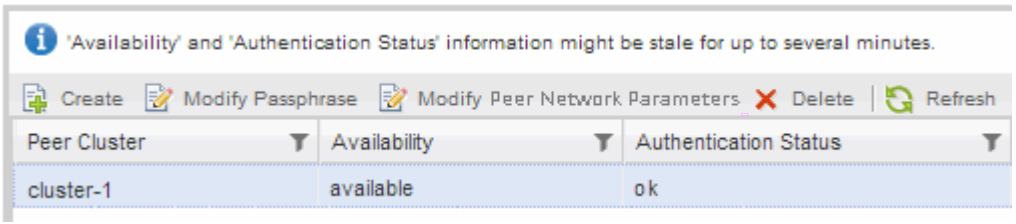
d. Verify that the destination SVM is peered with the source SVM.

- If you are running ONTAP 9.2 or earlier, perform the following steps to verify the cluster peer relationship and SVM peer relationship:

a. Click the **Configurations** tab.

b. In the **Cluster Details** pane, click **Cluster Peers**.

c. Verify that the peered cluster is authenticated and available.



d. Click the **SVMs** tab and select the source SVM.

e. In the **Peer Storage Virtual Machines** area, verify the destination SVM is peered with the source SVM.

If you do not see any peered SVM in this area, you can create the SVM peer relationship when creating the SnapVault relationship.

Creating the SnapVault relationship (ONTAP 9.2 or earlier)

Create a SnapVault relationship (Beginning with ONTAP 9.3)

You must create a SnapVault relationship between the source volume on one cluster and the destination volume on the peered cluster to create a SnapVault backup.

Before you begin

- You must have the cluster administrator user name and password for the destination cluster.
- The destination aggregate must have available space.

About this task

You must perform this task from the **source** cluster.

Steps

1. Click **Storage** > **Volumes**.
2. Select the volume that you want to back up, and then click **Actions** > **Protect**.

   You can also select multiple source volumes, and then create SnapVault relationships with a single destination volume.

3. In the **Volumes: Protect Volumes** page, provide the following information:
   a. Select **Vault** from the **Relationship Type** drop-down list.
   b. Select the destination cluster, destination SVM, and the suffix for the destination volume.

      Only peered SVMs and permitted SVMs are listed under destination SVMs.

      The destination volume is automatically created. The name of the destination volume is the source volume name appended with the suffix.

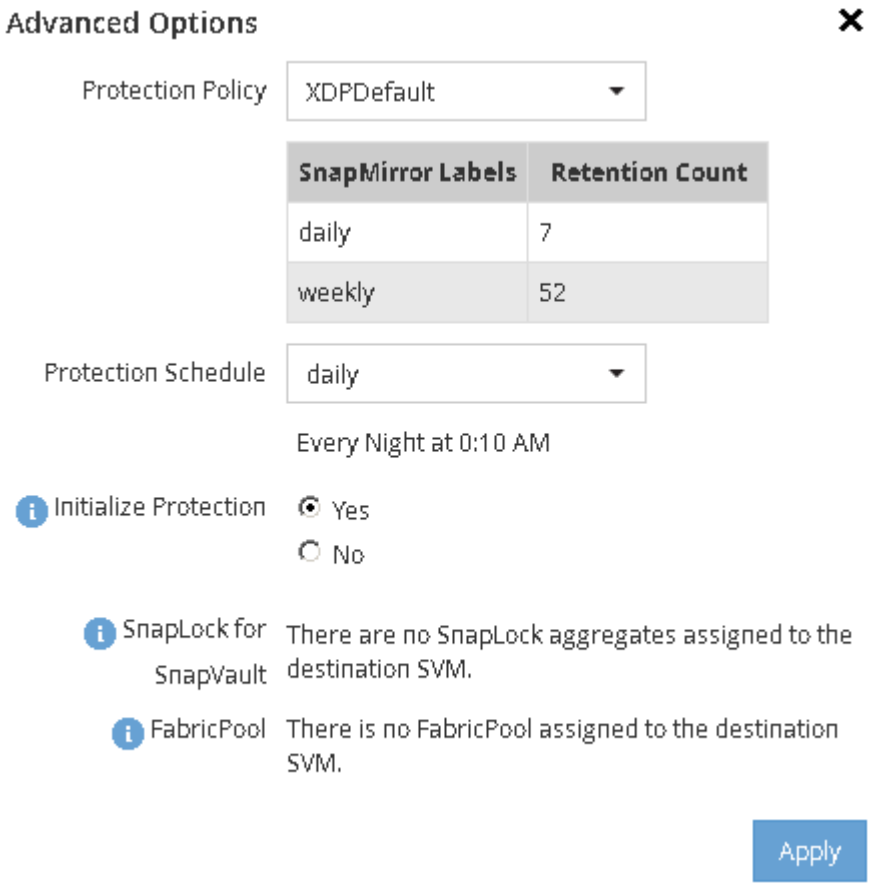
   c. Click .
   d. In the **Advanced Options** dialog box, verify that the **Protection Policy** is set as `XDPDefault`.
   e. Select the **Protection Schedule**.

      By default, the `daily` schedule is selected.

   f. Verify that **Yes** is selected for initializing the SnapVault relationship.

      All data protection relationships are initialized by default.

   g. Click **Apply** to save the changes.

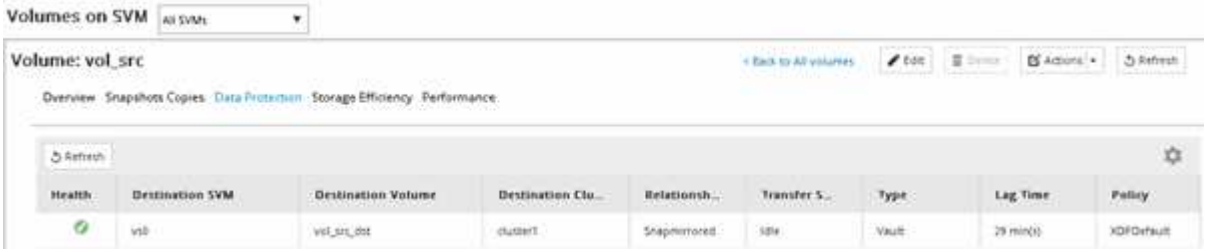


4. In the **Volumes: Protect Volumes** page, click **Validate** to verify whether the volumes have matching SnapMirror labels.
5. Click **Save** to create the SnapVault relationship.

6. Verify that the status of the SnapVault relationship is in the `Snapmirrored` state.

   a. Navigate to the **Volumes** window, and then select the volume that is backed up.

   b. Expand the volume and click **PROTECTION** to view the data protection status of the volume.



Create the SnapVault relationship (ONTAP 9.2 or earlier)

You must create a SnapVault relationship between the source volume on one cluster and the destination volume on the peered cluster to create a SnapVault backup.

Before you begin

- You must have the cluster administrator user name and password for the destination cluster.
- The destination aggregate must have available space.

About this task

You must perform this task from the **source** cluster.

Steps

1. Click **Storage** > **SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. Click the **Volumes** tab.
4. Select the volume that you want to back up, and then click **Protect**.
5. In the **Create Protection Relationship** dialog box, select **Vault** from the **Relationship Type** drop-down list.
6. In the **Destination Volume** section, select the peered cluster.
7. Specify the SVM for the destination volume:

If the SVM is…	Then…
Peered	Select the peered SVM from the list.
Not peered	a. Select the SVM. b. Click **Authenticate**. c. Enter the cluster administrator's credentials of the peered cluster, and then click **Create**.

8. Create a new destination volume:

a. Select the **New Volume** option.

b. Use the default volume name or enter a new volume name.

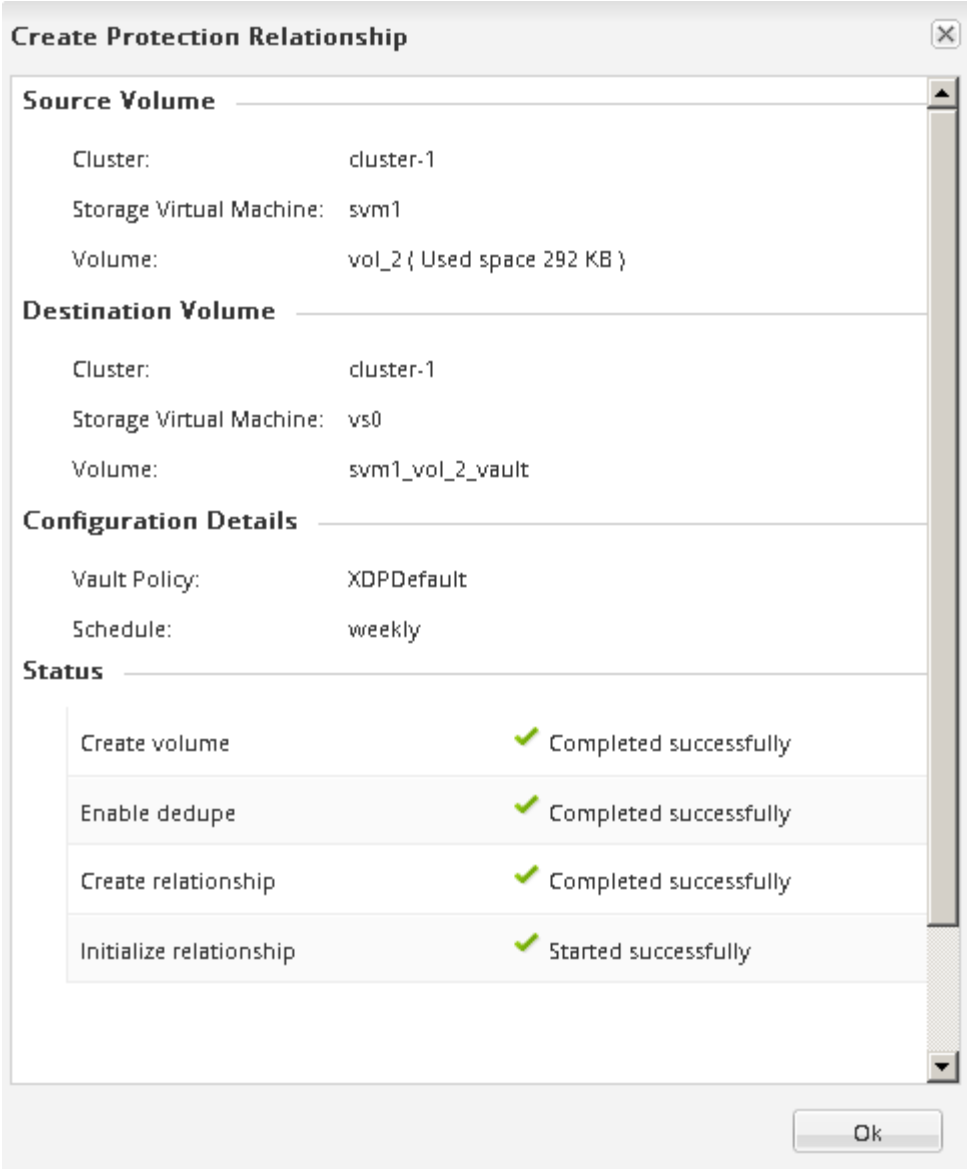
c. Select the destination aggregate.

d. Ensure that the **Enable dedupe** check box is selected.

9. In the **Configuration Details** section, select `XDPDefault` as the protection policy.
10. Select a protection schedule from the list of schedules.
11. Ensure that the **Initialize Relationship** check box is selected to transfer the base Snapshot copy, and then click **Create**

The wizard creates the relationship with the specified vault policy and schedule. The relationship is initialized by starting a baseline transfer of data from the source volume to the destination volume.

The Status section shows the status of each job.



12. Verify that the relationship status of the SnapVault relationship is in the `Snapmirrored` state.
    a. Select the volume from the Volumes list, and then click **Data Protection**.
    b. In the **Data Protection** bottom tab, verify that the SnapMirror relationship you created is listed and the relationship state is `Snapmirrored` and type is `Vault`.

Monitor the SnapVault relationship

You should periodically monitor the status of the SnapVault relationships to ensure that the data is backed up on the destination volume per the specified schedule.

About this task

You must perform this task from the **destination** cluster.

Steps

1. Depending on the System Manager version that you are running, perform one of the following steps:

- ONTAP 9.4 or earlier: Click **Protection** > **Relationships**.
- Beginning with ONTAP 9.5: Click **Protection** > **Volume Relationships**.

2. Select the SnapVault relationship between the source and the destination volumes, and then verify the status in the **Details** bottom tab.

   The health status of the SnapVault relationship, any transfer errors, and the lag time are displayed:

   - The Is Healthy field must display `Yes`.

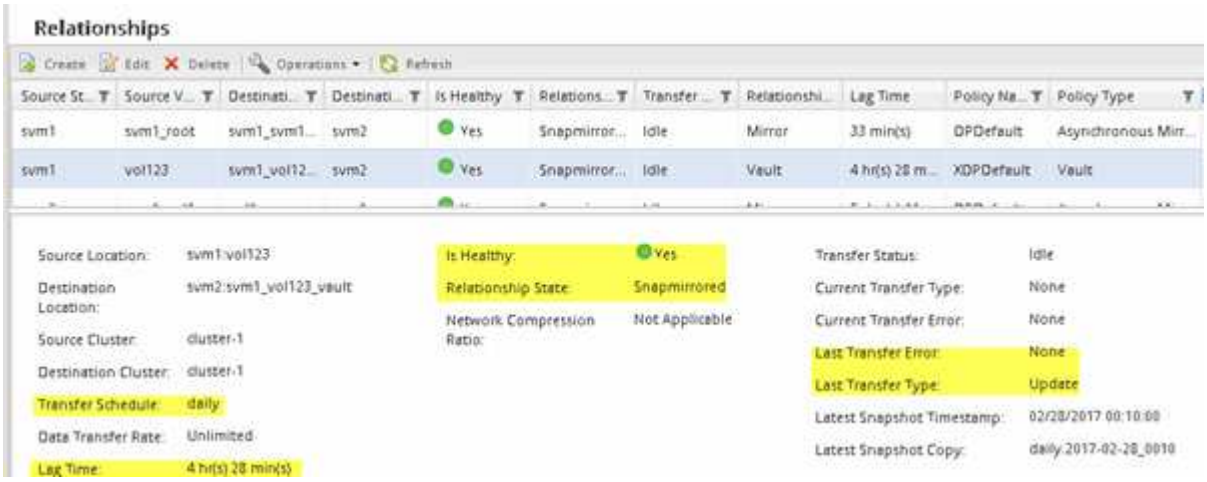
     For most data transfer failures, the field displays `No`. In some failure cases, however, the field continues to display `Yes`. You must check the transfer errors in the Details section to ensure that no data transfer failure occurred.

   - The Relationship State field must display `Snapmirrored`.
   - The Lag Time must be not more than the transfer schedule interval.

     For example, if the transfer schedule is daily, then the lag time must not be more than a day.

     You should troubleshoot any issues in the SnapVault relationships. The troubleshooting procedures for SnapMirror relationships are also applicable to SnapVault relationships.

     NetApp Technical Report 4015: SnapMirror Configuration and Best Practices for ONTAP 9.1, 9.2



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