



## **Reactivate the source volume**

System Manager Classic

NetApp

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# Reactivate the source volume

When the source volume becomes available, you must resynchronize the data from the destination volume to the source volume, update any modifications after the resynchronization operation, and activate the source volume.

## Resynchronize the source volume

When the source volume is online, you must resynchronize the data between the destination volume and the source volume to replicate the latest data from the destination volume.

### Before you begin

The source volume must be online.

### About this task

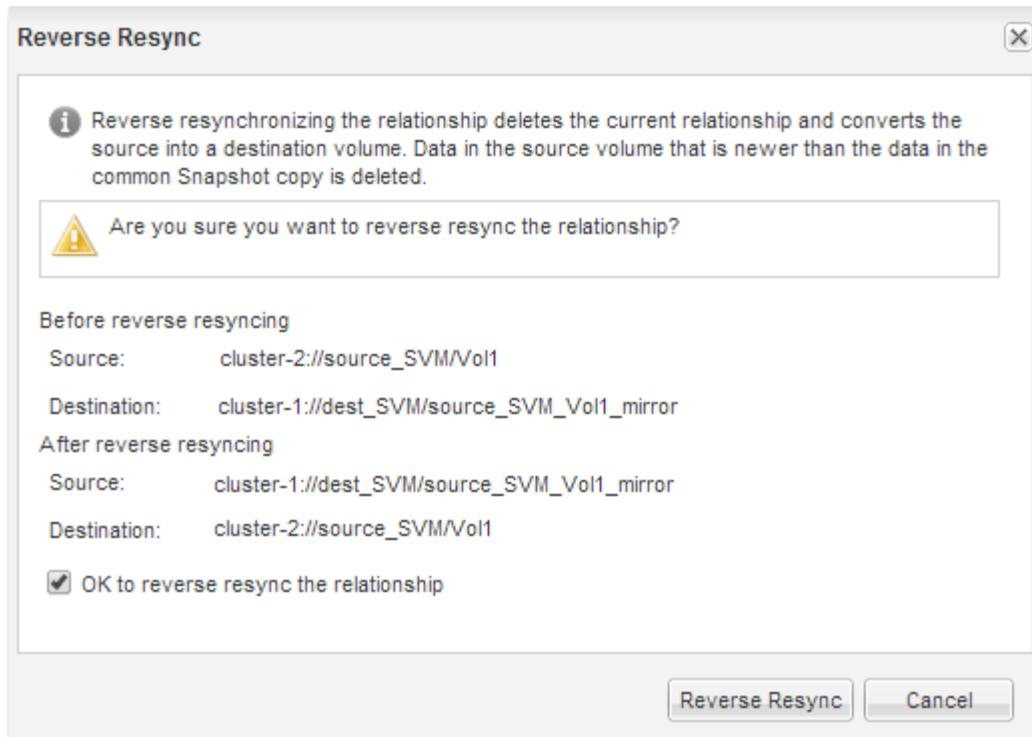
You must perform the task from the **destination** cluster.

The following image shows that the data is replicated from the active destination volume to the read-only source volume:



### 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 SnapMirror relationship between the source and destination volumes.
3. Make a note of the transfer schedule and the policy configured for the SnapMirror relationship.
4. Click **Operations > Reverse Resync**.
5. Select the confirmation check box, and then click **Reverse Resync**.



Beginning with ONTAP 9.3, the SnapMirror policy of the relationship is set to `MirrorAllSnapshots` and the mirror schedule is set to `None`.

If you are running ONTAP 9.2 or earlier, the SnapMirror policy of the relationship is set to `DPDefault` and the mirror schedule is set to `None`.

6. On the source cluster, specify a SnapMirror policy and schedule that match the protection configuration of the original SnapMirror relationship:
  - a. 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**.
  - b. Select the SnapMirror relationship between the resynchronized source volume and the destination volume, and then click **Edit**.
  - c. Select the SnapMirror policy and schedule, and then click **OK**.

## Update the source volume

After resynchronizing the source volume, you might want to ensure that all the latest changes are updated on the source volume before activating the source volume.

### About this task

You must perform this task from the **source** 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 SnapMirror relationship between the source and the destination volumes, and then click **Operations > Update**.
3. Perform an incremental transfer from the recent common Snapshot copy between the source and destination volumes.
  - Beginning with ONTAP 9.3: Select the **As per policy** option.
  - ONTAP 9.2 or earlier: Select the **On demand** option.
4. **Optional:** Select **Limit transfer bandwidth to** in order to limit the network bandwidth used for transfers, and then specify the maximum transfer speed.
5. Click **Update**.
6. Verify that the transfer status is **Idle** and last transfer type is **Update** in the **Details** tab.

The screenshot shows the ONTAP Management UI. The top part is a table titled 'Relationships' with columns for Source Sto, Destination, Is Healthy, Relationship, Transfer St, Lag Time, Policy Name, and Policy Type. It lists three relationships: 'svm1' to 'svm2' (Snapmirrored, Idle, Mirror, 44 min(s), DPDefault, Asynchronous), 'svm1' to 'vol123' (Snapmirrored, Idle, Vault, 4 hr(s) 56 min(s), XDPDefault, Vault), and 'svm2' to 'svm1' (Snapmirrored, Idle, Mirror, 2 min(s), DPDefault, Asynchronous). The bottom part is the 'Details' tab for the 'svm2' to 'svm1' relationship. It shows the following details:

Source Location:	svm2:svm1_volt_mirr	Is Healthy:	Yes	Transfer Status:	Idle
Destination Location:	svm1:vol1	Relationship State:	Snapmirrored	Current Transfer Type:	None
Source Cluster:	cluster-1	Network Compression Ratio:	Not Applicable	Current Transfer Error:	None
Destination Cluster:	cluster-1			Last Transfer Error:	None
Transfer Schedule:	None			Last Transfer Type:	Update
Data Transfer Rate:	Unlimited			Latest Snapshot Timestamp:	02/23/2017 16:47:18
Lat Time:	2 min(s)			Latest Snapshot Copy:	snapmirror.20c58fe5-e6d9-11e9-b44e-0a0931a1bda_2149622807.2017-1

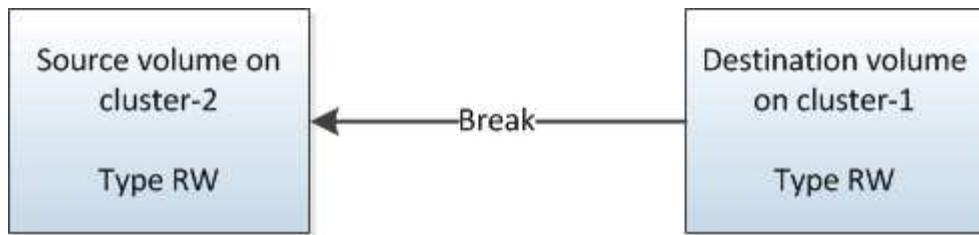
## Reactivate the source volume

After resynchronizing the data from the destination volume to the source volume, you must activate the source volume by breaking the SnapMirror relationship. You should then resynchronize the destination volume to protect the reactivated source volume.

### About this task

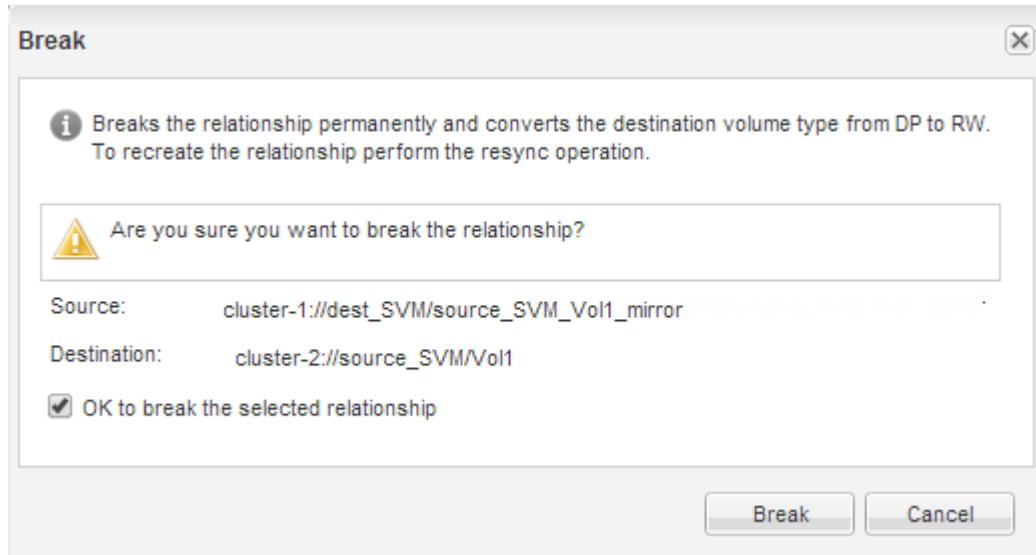
Both the break and reverse resync operations are performed from the **source** cluster.

The following image shows that the source and destination volumes are read/write when you break the SnapMirror relationship. After the reverse resync operation, the data is replicated from the active source volume to the read-only destination volume.

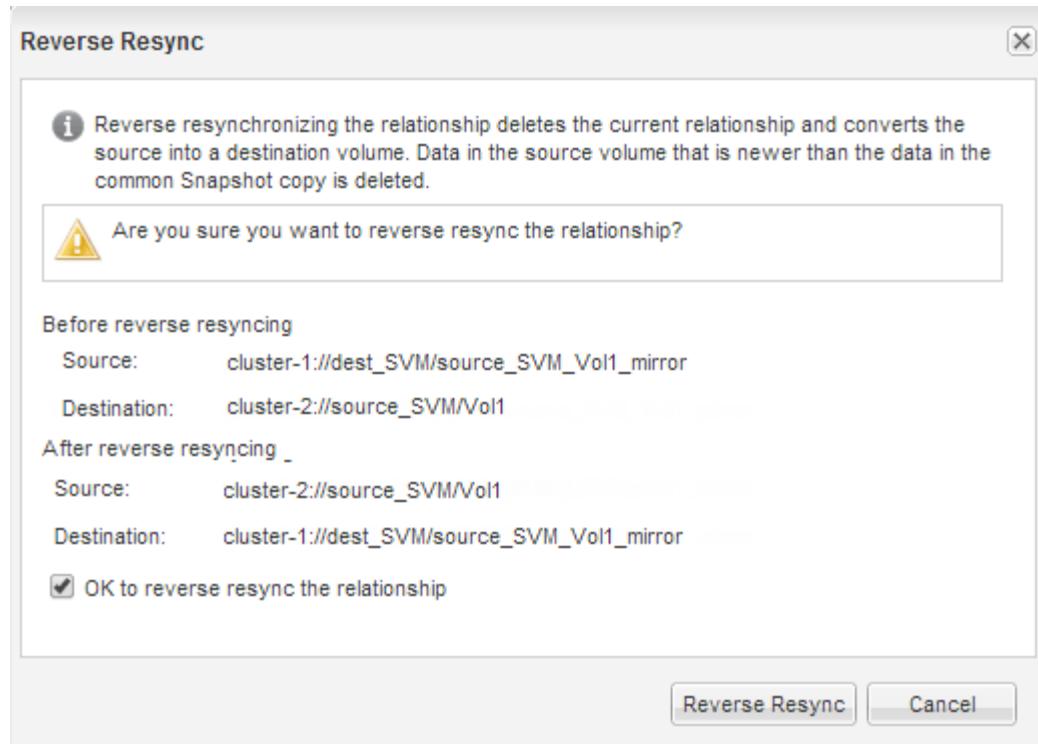


## Steps

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 SnapMirror relationship between the source and the destination volumes.
3. Click **Operations > Quiesce**.
4. Select the confirmation check box, and then click **Quiesce**.
5. Click **Operations > Break**.
6. Select the confirmation check box, and then click **Break**.



7. Click **Operations > Reverse Resync**.
8. Select the confirmation check box, and then click **Reverse Resync**.



Beginning with ONTAP 9.3, the SnapMirror policy of the relationship is set to `MirrorAllSnapshots` and the SnapMirror schedule is set to `None`.

If you are running ONTAP 9.2 or earlier, the SnapMirror policy of the relationship is set to `DPDefault` and the SnapMirror schedule is set to `None`.

9. Navigate to the source volume in the volumes page, and verify that the SnapMirror relationship you created is listed and the relationship state is `Snapmirrored`.
10. On the destination cluster, specify a SnapMirror policy and schedule that match the protection configuration of the original SnapMirror relationship for the new SnapMirror relationship:
  - a. 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**.
  - b. Select the SnapMirror relationship between the reactivated source and the destination volumes, and then click **Edit**.
  - c. Select the SnapMirror policy and schedule, and then click **OK**.

## Results

The source volume has read/write access and is protected by the destination volume.

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