



Manage SnapMirror SVM replication

ONTAP 9

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Manage SnapMirror SVM replication

Replicate SVM configurations

SnapMirror SVM replication workflow

SnapMirror SVM replication involves creating the destination SVM, creating a replication job schedule, and creating and initializing a SnapMirror relationship.



This workflow assumes that you are already using a default policy or a custom replication policy.



Replicate an entire SVM configuration

You can use the `-identity-preserve true` option of the `snapmirror create` command to replicate an entire SVM configuration.

What you'll need

The source and destination clusters and SVMs must be peered.

For complete command syntax, see the man page.

About this task

This workflow assumes that you are already using a default policy or a custom replication policy.

Starting with ONTAP 9.9.1, when you use the mirror-vault policy, you can create different Snapshot policies on the source and destination SVM, and the Snapshot copies on the destination are not overwritten by Snapshot copies on the source. For more information, see [Understanding SnapMirror SVM replication](#).

Steps

1. Create a destination SVM:

```
vserver create -vserver SVM_name -subtype dp-destination
```

The SVM name must be unique across the source and destination clusters.

The following example creates a destination SVM named `svm_backup`:

```
cluster_dst:> vserver create -vserver svm_backup -subtype dp-destination
```

2. Create a replication job schedule:

```
job schedule cron create -name job_name -month month -dayofweek day_of_week  
-day day_of_month -hour hour -minute minute
```

For `-month`, `-dayofweek`, and `-hour`, you can specify `all` to run the job every month, day of the week, and hour, respectively.

The following example creates a job schedule named `my_weekly` that runs on Saturdays at 3:00 a.m.:

```
cluster_dst::> job schedule cron create -name my_weekly -dayofweek  
"Saturday" -hour 3 -minute 0
```

3. From the destination SVM or the destination cluster, create a replication relationship:

```
snapmirror create -source-path SVM_name: -destination-path SVM_name: -type  
DP|XDP -schedule schedule -policy policy -identity-preserve true
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options.

The following example creates a SnapMirror DR relationship using the default `MirrorAllSnapshots` policy:

```
cluster_dst::> snapmirror create -source-path svm1: -destination-path  
svm_backup: -type XDP -schedule my_daily -policy MirrorAllSnapshots  
-identity-preserve true
```

The following example creates a unified replication relationship using the default `MirrorAndVault` policy:

```
cluster_dst:> snapmirror create -source-path svm1: -destination-path  
svm_backup: -type XDP -schedule my_daily -policy MirrorAndVault  
-identity-preserve true
```

Assuming you have created a custom policy with the policy type `async-mirror`, the following example creates a SnapMirror DR relationship:

```
cluster_dst:> snapmirror create -source-path svm1: -destination-path  
svm_backup: -type XDP -schedule my_daily -policy my_mirrored -identity  
-preserve true
```

Assuming you have created a custom policy with the policy type `mirror-vault`, the following example creates a unified replication relationship:

```
cluster_dst:> snapmirror create -source-path svm1: -destination-path  
svm_backup: -type XDP -schedule my_daily -policy my_unified -identity  
-preserve true
```

4. Stop the destination SVM:

```
vserver stop
```

SVM name

The following example stops a destination SVM named `dvs1`:

```
cluster_dst:> vserver stop -vserver dvs1
```

5. From the destination SVM or the destination cluster, initialize the SVM replication relationship:

```
snapmirror initialize -source-path SVM_name: -destination-path SVM_name:
```

The following example initializes the relationship between the source SVM, `svm1`, and the destination SVM, `svm_backup`:

```
cluster_dst:> snapmirror initialize -source-path svm1: -destination  
-path svm_backup:
```

Exclude LIFs and related network settings from SVM replication

If the source and destination SVMs are in different subnets, you can use the `-discard -configs network` option of the `snapmirror policy create` command to exclude

LIFs and related network settings from SVM replication.

What you'll need

The source and destination clusters and SVMs must be peered.

About this task

The `-identity-preserve` option of the `snapmirror create` command must be set to `true` when you create the SVM replication relationship.

For complete command syntax, see the man page.

Steps

1. Create a destination SVM:

```
vserver create -vserver SVM -subtype dp-destination
```

The SVM name must be unique across the source and destination clusters.

The following example creates a destination SVM named `svm_backup`:

```
cluster_dst:> vserver create -vserver svm_backup -subtype dp-destination
```

2. Create a job schedule:

```
job schedule cron create -name job_name -month month -dayofweek day_of_week  
-day day_of_month -hour hour -minute minute
```

For `-month`, `-dayofweek`, and `-hour`, you can specify `all` to run the job every month, day of the week, and hour, respectively.

The following example creates a job schedule named `my_weekly` that runs on Saturdays at 3:00 a.m.:

```
cluster_dst:> job schedule cron create -name my_weekly -dayofweek  
"Saturday" -hour 3 -minute 0
```

3. Create a custom replication policy:

```
snapmirror policy create -vserver SVM -policy policy -type async-  
mirror|vault|mirror-vault -comment comment -tries transfer_tries -transfer  
-priority low|normal -is-network-compression-enabled true|false -discard  
-configs network
```

For complete command syntax, see the man page.

The following example creates a custom replication policy for SnapMirror DR that excludes LIFs:

```
cluster_dst:> snapmirror policy create -vserver svm1 -policy  
DR_exclude_LIFs -type async-mirror -discard-configs network
```

The following example creates a custom replication policy for unified replication that excludes LIFs:

```
cluster_dst::> snapmirror policy create -vserver svm1 -policy
unified_exclude_LIFs -type mirror-vault -discard-configs network
```

4. From the destination SVM or the destination cluster, run the following command to create a replication relationship:

```
snapmirror create -source-path SVM: -destination-path SVM: -type DP|XDP
-schedule schedule -policy policy -identity-preserve true|false
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the examples below.

The following example creates a SnapMirror DR relationship that excludes LIFs:

```
cluster_dst::> snapmirror create -source-path svm1: -destination-path
svm_backup: -type XDP -schedule my_daily -policy DR_exclude_LIFs
-identity-preserve true
```

The following example creates a SnapMirror unified replication relationship that excludes LIFs:

```
cluster_dst::> snapmirror create -source-path svm1: -destination-path
svm_backup: -type XDP -schedule my_daily -policy unified_exclude_LIFs
-identity-preserve true
```

5. Stop the destination SVM:

```
vserver stop
```

SVM name

The following example stops a destination SVM named `dvs1`:

```
cluster_dst::> vserver stop -vserver dvs1
```

6. From the destination SVM or the destination cluster, initialize a replication relationship:

```
snapmirror initialize -source-path SVM: -destination-path SVM:
```

For complete command syntax, see the man page.

The following example initializes the relationship between the source, `svm1` and the destination, `svm_backup`:

```
cluster_dst:> snapmirror initialize -source-path svm1: -destination  
-path svm_backup:
```

After you finish

You must configure the network and protocols on the destination SVM for data access in the event a disaster occurs.

Exclude network, name service, and other settings from SVM replication

You can use the `-identity-preserve false` option of the `snapmirror create` command to replicate only the volumes and security configurations of an SVM. Some protocol and name service settings are also preserved.

What you'll need

The source and destination clusters and SVMs must be peered.

About this task

For a list of preserved protocol and name service settings, see [Configurations replicated in SVM DR relationships](#).

For complete command syntax, see the man page.

Steps

1. Create a destination SVM:

```
vserver create -vserver SVM -subtype dp-destination
```

The SVM name must be unique across the source and destination clusters.

The following example creates a destination SVM named `svm_backup`:

```
cluster_dst:> vserver create -vserver svm_backup -subtype dp-destination
```

2. Create a replication job schedule:

```
job schedule cron create -name job_name -month month -dayofweek day_of_week  
-day day_of_month -hour hour -minute minute
```

For `-month`, `-dayofweek`, and `-hour`, you can specify `all` to run the job every month, day of the week, and hour, respectively.

The following example creates a job schedule named `my_weekly` that runs on Saturdays at 3:00 a.m.:

```
cluster_dst:> job schedule cron create -name my_weekly -dayofweek  
"Saturday" -hour 3 -minute 0
```


3. Create a replication relationship that excludes network, name service, and other configuration settings:

```
snapmirror create -source-path SVM: -destination-path SVM: -type DP|XDP  
-schedule schedule -policy policy -identity-preserve false
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the examples below. You must run this command from the destination SVM or the destination cluster.

The following example creates a SnapMirror DR relationship using the default `MirrorAllSnapshots` policy. The relationship excludes network, name service, and other configuration settings from SVM replication:

```
cluster_dst:> snapmirror create -source-path svm1: -destination-path  
svm_backup: -type XDP -schedule my_daily -policy MirrorAllSnapshots  
-identity-preserve false
```

The following example creates a unified replication relationship using the default `MirrorAndVault` policy. The relationship excludes network, name service, and other configuration settings:

```
cluster_dst:> snapmirror create svm1: -destination-path svm_backup:  
-type XDP -schedule my_daily -policy MirrorAndVault -identity-preserve  
false
```

Assuming you have created a custom policy with the policy type `async-mirror`, the following example creates a SnapMirror DR relationship. The relationship excludes network, name service, and other configuration settings from SVM replication:

```
cluster_dst:> snapmirror create -source-path svm1: -destination-path  
svm_backup: -type XDP -schedule my_daily -policy my_mirrored -identity  
-preserve false
```

Assuming you have created a custom policy with the policy type `mirror-vault`, the following example creates a unified replication relationship. The relationship excludes network, name service, and other configuration settings from SVM replication:

```
cluster_dst:> snapmirror create -source-path svm1: -destination-path  
svm_backup: -type XDP -schedule my_daily -policy my_unified -identity  
-preserve false
```

4. Stop the destination SVM:

```
vserver stop
```

SVM name

The following example stops a destination SVM named dvs1:

```
destination_cluster::> vserver stop -vserver dvs1
```

5. If you are using SMB, you must also configure a CIFS server.

See [CIFS only: Creating a CIFS server](#).

6. From the destination SVM or the destination cluster, initialize the SVM replication relationship:

```
snapmirror initialize -source-path SVM_name: -destination-path SVM_name:
```

After you finish

You must configure the network and protocols on the destination SVM for data access in the event a disaster occurs.

CIFS only: Create a CIFS server

If the source SVM has CIFS configuration, and you chose to set `identity-preserve` to `false`, you must create a CIFS server for the destination SVM. CIFS server is required for some CIFS configurations, such as shares during initialization of the SnapMirror relationship.

Steps

1. Start the destination SVM by using the `vserver start` command.

```
destination_cluster::> vserver start -vserver dvs1
[Job 30] Job succeeded: DONE
```

2. Verify that the destination SVM is in the running state and subtype is `dp-destination` by using the `vserver show` command.

```
destination_cluster::> vserver show
```

Vserver	Type	Subtype	Admin State	Operational State	Root Volume
Aggregate					

dvs1	data	dp-destination	running	running	-

3. Create a LIF by using the `network interface create` command.

```
destination_cluster::>network interface create -vserver dvs1 -lif NAS1  
-role data -data-protocol cifs -home-node destination_cluster-01 -home  
-port a0a-101 -address 192.0.2.128 -netmask 255.255.255.128
```

4. Create a route by using the `network route create` command.

```
destination_cluster::>network route create -vserver dvs1 -destination  
0.0.0.0/0  
-gateway 192.0.2.1
```

Network management

5. Configure DNS by using the `vserver services dns create` command.

```
destination_cluster::>vserver services dns create -domains  
mydomain.example.com -vserver  
dvs1 -name-servers 192.0.2.128 -state enabled
```

6. Add the preferred domain controller by using the `vserver cifs domain preferred-dc add` command.

```
destination_cluster::>vserver cifs domain preferred-dc add -vserver dvs1  
-preferred-dc  
192.0.2.128 -domain mydomain.example.com
```

7. Create the CIFS server by using the `vserver cifs create` command.

```
destination_cluster::>vserver cifs create -vserver dvs1 -domain  
mydomain.example.com  
-cifs-server CIFS1
```

8. Stop the destination SVM by using the `vserver stop` command.

```
destination_cluster::> vserver stop -vserver dvs1  
[Job 46] Job succeeded: DONE
```

Exclude volumes from SVM replication

By default, all RW data volumes of the source SVM are replicated. If you do not want to protect all the volumes on the source SVM, you can use the `-vserver-dr`

`-protection unprotected` option of the `volume modify` command to exclude volumes from SVM replication.

Steps

1. Exclude a volume from SVM replication:

```
volume modify -vserver SVM -volume volume -vserver-dr-protection unprotected
```

For complete command syntax, see the man page.

The following example excludes the volume `volA_src` from SVM replication:

```
cluster_src::> volume modify -vserver SVM1 -volume volA_src -vserver-dr  
-protection unprotected
```

If you later want to include a volume in the SVM replication that you originally excluded, run the following command:

```
volume modify -vserver SVM -volume volume -vserver-dr-protection protected
```

The following example includes the volume `volA_src` in the SVM replication:

```
cluster_src::> volume modify -vserver SVM1 -volume volA_src -vserver-dr  
-protection protected
```

2. Create and initialize the SVM replication relationship as described in [Replicating an entire SVM configuration](#),

Serve data from an SVM DR destination

SVM disaster recovery workflow

To recover from a disaster and serve data from the destination SVM, you must activate the destination SVM. Activating the destination SVM involves stopping scheduled SnapMirror transfers, aborting ongoing SnapMirror transfers, breaking the replication relationship, stopping the source SVM, and starting the destination SVM.



Make SVM destination volumes writeable

You need to make SVM destination volumes writeable before you can serve data to clients. The procedure is largely identical to the procedure for volume replication, with one exception. If you set `-identity-preserve true` when you created the SVM replication relationship, you must stop the source SVM before activating the destination SVM.

About this task

For complete command syntax, see the man page.



In a disaster recovery scenario, you cannot perform a SnapMirror update from the source SVM to the disaster recovery destination SVM because your source SVM and its data will be inaccessible, and because updates since the last resync might be bad or corrupt.

Steps

1. From the destination SVM or the destination cluster, stop scheduled transfers to the destination:

```
snapmirror quiesce -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example stops scheduled transfers between the source SVM `svm1` and the destination SVM `svm_backup`:

```
cluster_dst::> snapmirror quiesce -source-path svm1: -destination-path  
svm_backup:
```

2. From the destination SVM or the destination cluster, stop ongoing transfers to the destination:

```
snapmirror abort -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example stops ongoing transfers between the source SVM `svm1` and the destination SVM `svm_backup`:

```
cluster_dst::> snapmirror abort -source-path svm1: -destination-path  
svm_backup:
```

3. From the destination SVM or the destination cluster, break the replication relationship:

```
snapmirror break -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example breaks the relationship between the source SVM `svm1` and the destination SVM `svm_backup`:

```
cluster_dst::> snapmirror break -source-path svm1: -destination-path  
svm_backup:
```

4. If you set `-identity-preserve true` when you created the SVM replication relationship, stop the

source SVM:

```
vserver stop -vserver SVM
```

The following example stops the source SVM `svm1`:

```
cluster_src::> vserver stop svm1
```

5. Start the destination SVM:

```
vserver start -vserver SVM
```

The following example starts the destination SVM `svm_backup`:

```
cluster_dst::> vserver start svm_backup
```

After you finish

Configure SVM destination volumes for data access, as described in [Configuring the destination volume for data access](#).

Reactivate the source SVM

Source SVM reactivation workflow

If the source SVM exists after a disaster, you can reactivate it and protect it by recreating the SVM disaster recovery relationship.



Reactivate the original source SVM

You can reestablish the original data protection relationship between the source and destination SVM when you no longer need to serve data from the destination. The procedure is largely identical to the procedure for volume replication, with one exception. You must stop the destination SVM before reactivating the source SVM.

What you'll need

If you have increased the size of destination volume while serving data from it, before you reactivate the source volume, you should manually increase max-autosize on the original source volume to ensure it can grow sufficiently.

[When a destination volume grows automatically](#)

About this task

This procedure assumes that the baseline in the original source volume is intact. If the baseline is not intact, you must create and initialize the relationship between the volume you are serving data from and the original source volume before performing the procedure.

For complete command syntax on commands, see the man page.

Steps

1. From the original source SVM or the original source cluster, create a reverse SVM DR relationship using the same configuration, policy, and identity-preserve setting as the original SVM DR relationship:


```
snapmirror create -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example creates a relationship between the SVM from which you are serving data, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src::> snapmirror create -source-path svm_backup: -destination  
-path svm1:
```

2. From the original source SVM or the original source cluster, run the following command to reverse the data protection relationship:

```
snapmirror resync -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

Although `resync` does not require a baseline transfer, it can be time-consuming. You might want to run the `resync` in off-peak hours.



The command fails if a common Snapshot copy does not exist on the source and destination. Use `snapmirror initialize` to reinitialize the relationship.

The following example reverses the relationship between the original source SVM, `svm1`, and the SVM from which you are serving data, `svm_backup`:

```
cluster_src::> snapmirror resync -source-path svm_backup: -destination  
-path svm1:
```

3. When you are ready to reestablish data access to the original source SVM, stop the original destination SVM to disconnect any clients currently connected to the original destination SVM.

```
vserver stop -vserver SVM
```

The following example stops the original destination SVM which is currently serving data:

```
cluster_dst::> vserver stop svm_backup
```

4. Verify that the original destination SVM is in the stopped state by using the `vserver show` command.

```
cluster_dst:> vserver show
```

Vserver	Type	Subtype	Admin State	Operational State	Root Volume
Aggregate					
-----	-----	-----	-----	-----	-----
svm_backup	data	default	stopped	stopped	rv
aggr1					

5. From the original source SVM or the original source cluster, run the following command to perform the final update of the reversed relationship to transfer all changes from the original destination SVM to the original source SVM:

```
snapmirror update -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example updates the relationship between the original destination SVM from which you are serving data, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src:> snapmirror update -source-path svm_backup: -destination  
-path svm1:
```

6. From the original source SVM or the original source cluster, run the following command to stop scheduled transfers for the reversed relationship:

```
snapmirror quiesce -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example stops scheduled transfers between the SVM you are serving data from, `svm_backup`, and the original SVM, `svm1`:

```
cluster_src:> snapmirror quiesce -source-path svm_backup: -destination  
-path svm1:
```

7. When the final update is complete and the relationship indicates "Quiesced" for the relationship status, run the following command from the original source SVM or the original source cluster to break the reversed relationship:

```
snapmirror break -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example breaks the relationship between the original destination SVM from which you were serving data, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src::> snapmirror break -source-path svm_backup: -destination  
-path svm1:
```

8. If the original source SVM was previously stopped, from the original source cluster, start the original source SVM:

```
vserver start -vserver SVM
```

The following example starts the original source SVM:

```
cluster_src::> vserver start svm1
```

9. From the original destination SVM or the original destination cluster, reestablish the original data protection relationship:

```
snapmirror resync -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example reestablishes the relationship between the original source SVM, `svm1`, and the original destination SVM, `svm_backup`:

```
cluster_dst::> snapmirror resync -source-path svm1: -destination-path  
svm_backup:
```

10. From the original source SVM or the original source cluster, run the following command to delete the reversed data protection relationship:

```
snapmirror delete -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example deletes the reversed relationship between the original destination SVM, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src::> snapmirror delete -source-path svm_backup: -destination  
-path svm1:
```

11. From the original destination SVM or the original destination cluster, release the reversed data protection relationship:

```
snapmirror release -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example releases the reversed relationship between the original destination SVM, `svm_backup`, and the original source SVM, `svm1`

```
cluster_dst::> snapmirror release -source-path svm_backup: -destination  
-path svm1:
```

After you finish

Use the `snapmirror show` command to verify that the SnapMirror relationship was created. For complete command syntax, see the man page.

Reactivate the original source SVM (FlexGroup volumes only)

You can reestablish the original data protection relationship between the source and destination SVM when you no longer need to serve data from the destination. To reactivate the original source SVM when you are using FlexGroup volumes, you need to perform some additional steps, including deleting the original SVM DR relationship and releasing the original relationship before you reverse the relationship. You also need to release the reversed relationship and recreate the original relationship before stopping scheduled transfers.

Steps

1. From the original destination SVM or the original destination cluster, delete the original SVM DR relationship:

```
snapmirror delete -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example deletes the original relationship between the original source SVM, `svm1`, and the original destination SVM, `svm_backup`:

```
cluster_dst:> snapmirror delete -source-path svm1: -destination-path  
svm_backup:
```

2. From the original source SVM or the original source cluster, release the original relationship while keeping the Snapshot copies intact:

```
snapmirror release -source-path SVM: -destination-path SVM: -relationship-info  
-only true
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example releases the original relationship between the original source SVM, `svm1`, and the original destination SVM, `svm_backup`.

```
cluster_src:> snapmirror release -source-path svm1: -destination-path  
svm_backup: -relationship-info-only true
```

3. From the original source SVM or the original source cluster, create a reverse SVM DR relationship using the same configuration, policy, and identity-preserve setting as the original SVM DR relationship:

```
snapmirror create -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example creates a relationship between the SVM from which you are serving data, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src:> snapmirror create -source-path svm_backup: -destination  
-path svm1:
```

4. From the original source SVM or the original source cluster, run the following command to reverse the data protection relationship:

```
snapmirror resync -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

Although `resync` does not require a baseline transfer, it can be time-consuming. You might want to run the `resync` in off-peak hours.



The command fails if a common Snapshot copy does not exist on the source and destination. Use `snapmirror initialize` to reinitialize the relationship.

The following example reverses the relationship between the original source SVM, `svm1`, and the SVM from which you are serving data, `svm_backup`:

```
cluster_src::> snapmirror resync -source-path svm_backup: -destination
-path svm1:
```

5. When you are ready to reestablish data access to the original source SVM, stop the original destination SVM to disconnect any clients currently connected to the original destination SVM.

```
vserver stop -vserver SVM
```

The following example stops the original destination SVM which is currently serving data:

```
cluster_dst::> vserver stop svm_backup
```

6. Verify that the original destination SVM is in the stopped state by using the `vserver show` command.

```
cluster_dst::> vserver show
```

Vserver	Type	Subtype	Admin State	Operational State	Root Volume
Aggregate					
-----	-----	-----	-----	-----	-----

svm_backup	data	default	stopped	stopped	rv
aggr1					

7. From the original source SVM or the original source cluster, run the following command to perform the final update of the reversed relationship to transfer all changes from the original destination SVM to the original source SVM:

```
snapmirror update -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example updates the relationship between the original destination SVM from which you are serving data, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src::> snapmirror update -source-path svm_backup: -destination
-path svm1:
```

8. From the original source SVM or the original source cluster, run the following command to stop scheduled transfers for the reversed relationship:

```
snapmirror quiesce -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example stops scheduled transfers between the SVM you are serving data from, `svm_backup`, and the original SVM, `svm1`:

```
cluster_src::> snapmirror quiesce -source-path svm_backup: -destination  
-path svm1:
```

9. When the final update is complete and the relationship indicates "Quiesced" for the relationship status, run the following command from the original source SVM or the original source cluster to break the reversed relationship:

```
snapmirror break -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example breaks the relationship between the original destination SVM from which you were serving data, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src::> snapmirror break -source-path svm_backup: -destination  
-path svm1:
```

10. If the original source SVM was previously stopped, from the original source cluster, start the original source SVM:

```
vserver start -vserver SVM
```

The following example starts the original source SVM:

```
cluster_src::> vserver start svm1
```

11. From the original source SVM or the original source cluster, delete the reversed SVM DR relationship:

```
snapmirror delete -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example deletes the reversed relationship between the original destination SVM, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_src:> snapmirror delete -source-path svm_backup: -destination  
-path svm1:
```

12. From the original destination SVM or the original destination cluster, release the reversed relationship while keeping the Snapshot copies intact:

```
snapmirror release -source-path SVM: -destination-path SVM: -relationship-info  
-only true
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example releases the reversed relationship between the original destination SVM, `svm_backup`, and the original source SVM, `svm1`:

```
cluster_dst:> snapmirror release -source-path svm_backup: -destination  
-path svm1: -relationship-info-only true
```

13. From the original destination SVM or the original destination cluster, recreate the original relationship. Use the same configuration, policy, and identity-preserve setting as the original SVM DR relationship:

```
snapmirror create -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example creates a relationship between the original source SVM, `svm1`, and the original destination SVM, `svm_backup`:

```
cluster_dst:> snapmirror create -source-path svm1: -destination-path  
svm_backup:
```

14. From the original destination SVM or the original destination cluster, reestablish the original data protection relationship:

```
snapmirror resync -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example reestablishes the relationship between the original source SVM, `svm1`, and the original destination SVM, `svm_backup`:


```
cluster_dst:> snapmirror resync -source-path svm1: -destination-path  
svm_backup:
```

Convert volume replication relationships to an SVM replication relationship

You can convert replication relationships between volumes to a replication relationship between the storage virtual machines (SVMs) that own the volumes, provided that each volume on the source (except the root volume) is being replicated, and each volume on the source (including the root volume) has the same name as the volume on the destination.

About this task

Use the `volume rename` command when the SnapMirror relationship is idle to rename destination volumes if necessary.

Steps

1. From the destination SVM or the destination cluster, run the following command to resync the source and destination volumes:

```
snapmirror resync -source-path SVM:volume -destination-path SVM:volume -type  
DP|XDP -schedule schedule -policy policy
```

For complete command syntax, see the man page.



Although resync does not require a baseline transfer, it can be time-consuming. You might want to run the resync in off-peak hours.

The following example resyncs the relationship between the source volume `volA` on `svm1` and the destination volume `volA` on `svm_backup`:

```
cluster_dst:> snapmirror resync -source-path svm1:volA -destination  
-path svm_backup:volA
```

2. Create an SVM replication relationship between the source and destination SVMs, as described in [Replicating SVM configurations](#).

You must use the `-identity-preserve true` option of the `snapmirror create` command when you create your replication relationship.

3. Stop the destination SVM:

```
vserver stop -vserver SVM
```

For complete command syntax, see the man page.

The following example stops the destination SVM `svm_backup`:

```
cluster_dst:> vserver stop svm_backup
```

4. From the destination SVM or the destination cluster, run the following command to resync the source and destination SVMs:

```
snapmirror resync -source-path SVM: -destination-path SVM: -type DP|XDP  
-schedule schedule -policy policy
```

For complete command syntax, see the man page.



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

Although resync does not require a baseline transfer, it can be time-consuming. You might want to run the resync in off-peak hours.

The following example resyncs the relationship between the source SVM `svm1` and the destination SVM `svm_backup`:

```
cluster_dst:> snapmirror resync -source-path svm1: -destination-path  
svm_backup:
```

Delete an SVM replication relationship

You can use the `snapmirror delete` and `snapmirror release` commands to delete an SVM replication relationship. You can then delete unneeded destination volumes manually.

About this task

The `snapmirror release` command deletes any SnapMirror-created Snapshot copies from the source. You can use the `-relationship-info-only` option to preserve the Snapshot copies.

For complete command syntax on commands, see the man page.

Steps

1. Run the following command from the destination SVM or the destination cluster to break the replication relationship:

```
snapmirror break -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example breaks the relationship between the source SVM `svm1` and the destination SVM

svm_backup:

```
cluster_dst:> snapmirror break -source-path svm1: -destination-path  
svm_backup:
```

2. Run the following command from the destination SVM or the destination cluster to delete the replication relationship:

```
snapmirror delete -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example deletes the relationship between the source SVM `svm1` and the destination SVM `svm_backup`:

```
cluster_dst:> snapmirror delete -source-path svm1: -destination-path  
svm_backup:
```

3. Run the following command from the source cluster or source SVM to release the replication relationship information from the source SVM:

```
snapmirror release -source-path SVM: -destination-path SVM:
```



You must enter a colon (:) after the SVM name in the `-source-path` and `-destination-path` options. See the example below.

The following example releases information for the specified replication relationship from the source SVM `svm1`:

```
cluster_src:> snapmirror release -source-path svm1: -destination-path  
svm_backup:
```

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