

# ONTAP\_MIRROR\_VAULT\_FAN\_OUT

In this lab you will setup a fan-out snapmirror relationship with a DR and a Vault destination.

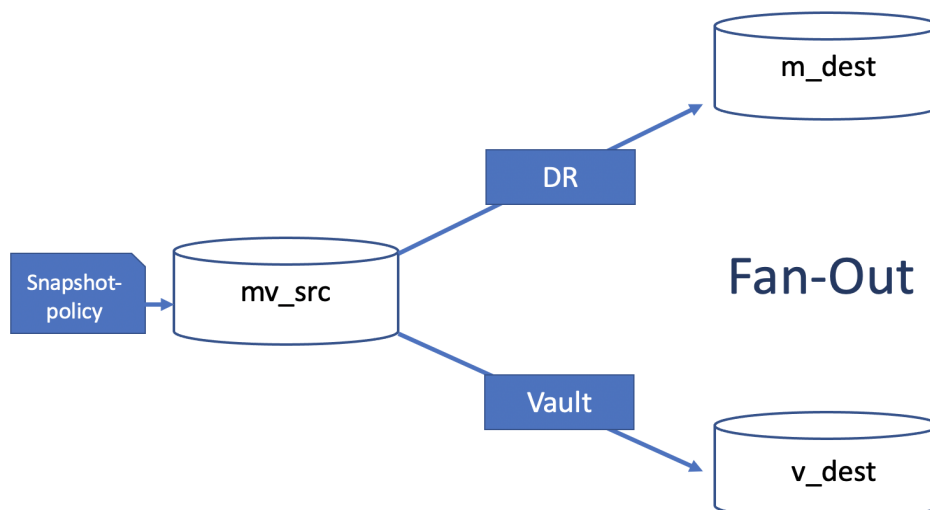
Prerequisites:

- Three clusters are peered
  - Three SVMs are peered
- (you may have to create c3\_nfs on cluster3 and peer it with c1\_nfs on cluster1)**

This is what you will do:

1. Create the source volume on cluster1
2. Create the destination volume for DR on cluster2
3. Create the destination volume for Vault on cluster3
4. On cluster1 create a snapshot policy with two rules  
Schedule1 5min, count1 1, snapmirror label fanout-mirror  
Schedule2 10min, count2 10, snapmirro label fanout-vault
5. On cluster1 connect the new snapshot policy to the source volume
6. On cluster2 create a snapmirror policy called 'mirror'
7. On cluster2 add a rule to the policy snapmirror label fanout-mirror and retention 1
8. On cluster3 create a snapmirror policy called 'vault'
9. On cluster3 add a rule to the new policy with snapmirror label fanout-vault and retention 10
10. On cluster2 create a snapmirror relation from the source on cluster1 to the destination on cluster2 with the policy mirror and a schedule of 5min
11. On cluster2 initialize the relationship
12. On cluster3 create a snapmirror relation from the source on cluster1 to the destination on cluster3 with the policy vault and a schedule of 10min
13. On cluster3 initialize the relationship
14. After some time check the snapshots on cluster2 and cluster3

(see next page for the commands)



## Commands

# 1. Create the source volume on cluster1

cluster1::>

**vol create -vserver c1\_nfs -volume mv\_src -size 1g -aggregate n1\_data**

# 2. Create the destination volume for DR on cluster2

cluster2::>

**vol create -vserver c2\_nfs -volume m\_dest -size 1g -aggregate n1\_data -type dp**

# 3. Create the destination volume for Vault on cluster3

cluster3::>

**vol create -vserver c3\_nfs -volume v\_dest -size 1g -aggregate n1\_data -type dp**

# 4. On cluster1 create a snapshot policy with two rules

Schedule1 5min, count1 1, snapmirror label fanout-mirror

Schedule2 10min, count2 10, snapmirror label fanout-vault

cluster1::>

**snapshot policy create -vserver c1\_nfs -policy fanout -enabled true -schedule1 5min  
-count1 1 -snapmirror-label1 fanout-mirror -schedule2 10min -count2 10  
-snapmirror-label2 fanout-vault**

# 5. On cluster1 connect the new snapshot policy to the source volume

**vol modify -vserver c1\_nfs -volume mv\_src -snapshot-policy fanout**

# 6. On cluster2 create a snapmirror policy called 'mirror'

cluster2::>

**snapmirror policy create -vserver c2\_nfs -policy mirror**

# 7. On cluster2 add a rule to the policy snapmirror label fanout-mirror and retention 1

**snapmirror policy add-rule -vserver c2\_nfs -policy mirror -snapmirror-label fanout-mirror  
-keep 1**

# 8. On cluster3 create a snapmirror policy called 'vault'

cluster3::>

**snapmirror policy create -vserver c3\_nfs -policy vault**

# 9. On cluster3 add a rule to the new policy with snapmirror label fanout-vault and retention 10

**snapmirror policy add-rule -vserver c3\_nfs -policy vault -snapmirror-label fanout-vault  
-keep 10**

# 10. On cluster2 create a snapmirror relation from the source on cluster1 to the destination on cluster2 with the policy mirror and a schedule of 5min

cluster2::>

```
snapmirror create -source-path c1_nfs:mv_src -destination-path c2_nfs:m_dest -policy mirror -schedule 5min
```

# 11. On cluster2 initialize the relationship

```
snapmirror initialize -destination-path c2_nfs:m_dest
```

# 12. On cluster3 create a snapmirror relation from the source on cluster1 to the destination on cluster3 with the policy vault and a schedule of 10min

cluster3::>

```
snapmirror create -source-path c1_nfs:mv_src -destination-path c3_nfs:v_dest -policy vault -schedule 10min
```

# 13. On cluster3 initialize the relationship

```
snapmirror initialize -destination-path c3_nfs:v_dest
```

# 14. After some time check the snapshots on cluster2 and cluster3

cluster2::>

```
snapshot show -vserver c2_nfs -volume m_dest -fields snapmirror-label
```

```
c2_nfs m_dest 5min.2022-07-26_0600 fanout-mirror
```

```
c2_nfs m_dest 5min.2022-07-26_0605 fanout-mirror
```

cluster3::>

```
snapshot show -vserver c3_nfs -volume v_dest -fields snapmirror-label
```

```
c3_nfs v_dest 10min.2022-07-26_0530 fanout-vault
```

```
c3_nfs v_dest 10min.2022-07-26_0540 fanout-vault
```

```
c3_nfs v_dest 10min.2022-07-26_0550 fanout-vault
```

```
c3_nfs v_dest 10min.2022-07-26_0600 fanout-vault
```