

ONTAP_Cascade_DR_VAULT

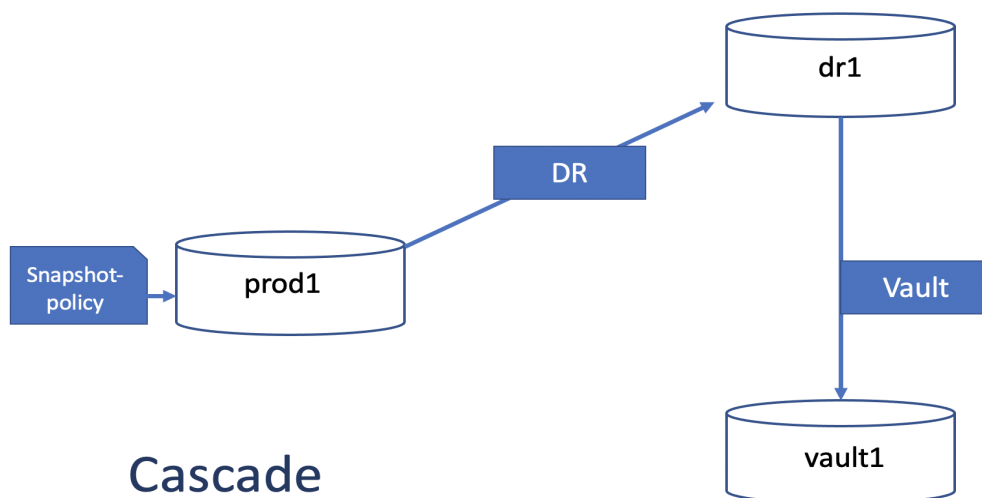
In this lab you will setup a cascaded configuration where a production volume is mirrored to a disaster recovery volume and the disaster recovery volume is backed up to a third site.

Prerequisites:

- Three clusters are peered
- Two SVMs (c1_nfs and c2_nfs) are peered

This what you will do:

1. Check the peering of c1_nfs and c2_nfs on cluster1
2. Check the peering of c2_nfs and c1_nfs on cluster2
3. Create an SVM c3_nfs on cluster3
4. Peer SVM c3_nfs with c2_nfs for snapmirror
5. Accept the peering relation with c2_nfs
6. Create the source volume prod1 in c1_nfs on cluster1
7. Create a snapshotpolicy that will create snapshots with the label "tovault"
8. Connect the snapshot policy to prod1
9. On cluster2 create the DR volume dr1 with the type DP
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11. On cluster2 create a snapmirror relationship between prod1 and dr1
With the snapmirror policy MirrorAllSnapshots and a schedule of 5min
12. Initialize the relationship
13. On cluster3 create a snapmirror relationship between dr1 and vault1
With snapmirror policy XDPDefault and schedule 5min
14. On cluster3 Add a rule to the XDPDefault snapmirror policy
with label 'tovault' and retention of 10
15. Initialize the relationship
16. After some time, list the snapshots on cluster3 and there should be a
17. Snapshot with label tovault



Commands

1. Check the peering of c1_nfs and c2_nfs on cluster1

cluster1::>

vserver peer show -vserver c1_nfs

2. Check the peering of c2_nfs and c1_nfs on cluster2

cluster2::>

vserver peer show -vserver c2_nfs

3. Create an SVM c3_nfs on cluster3

cluster3::>

vserver create -vserver c3_nfs

4. Peer SVM c3_nfs with c2_nfs for snapmirror

cluster3::>

**vserver peer create -vserver c3_nfs -peer-vserver c2_nfs -applications snapmirror
peer-cluster cluster2 -applications snapmirror**

5. Accept the peering relation with c3_nfs

cluster2::>

vserver peer show

vserver peer accept -vserver c2_nfs -peer-vserver c3_nfs

6. Create the source volume prod1 in c1_nfs on cluster1

cluster1::>

vol create -vserver c1_nfs -volume prod1 -size 1g -aggregate n1_data

7. Create a snapshotpolicy that will create snapshots with the label "tovault"

**snapshot policy create -policy vaultpol -enabled true -vserver c1_nfs -schedule1 5min
-count1 1 -snapmirror-label1 tovault**

8. Connect the snapshot policy to prod1

vol modify -vserver c1_nfs -volume prod1 -snapshot-policy vaultpol

9. On cluster2 create the DR volume with the type DP

cluster2::>

vol create -vserver c2_nfs -volume dr1 -size 1g -aggregate n1_data -type dp

10. On cluster2 create the DR volume dr1 with the type DP

cluster3::>

vol create -vserver c3_nfs -volume vault1 -size 1g -aggregate n1_data -type dp

11. On cluster2 create a snapmirror relationship between prod1 and dr1
With the snapmirror policy MirrorAllSnapshots and a schedule of 5min

cluster2::>

```
snapmirror create -source-path c1_nfs:prod1 -destination-path c2_nfs:dr1 -policy MirrorAllSnapshots -schedule 5min
```

12. Initialize the relationship

```
snapmirror initialize -destination-path c2_nfs:dr1
```

13. On cluster3 create a snapmirror relationship between dr1 and vault1

With snapmirror policy XDPDefault and schedule 5min

cluster3::>

```
snapmirror create -source-path c2_nfs:dr1 -destination-path c3_nfs:vault1 -policy XDPDefault -schedule 5min
```

14. Add a rule to the XDPDefault snapmirror policy with label 'tovault' and retention of 10

```
snapmirror policy add-rule -vserver cluster3 -policy XDPDefault -snapmirror-label tovault -keep 10
```

15. Initialize the relationship

cluster3::>

```
snapmirror initialize -destination-path c3_nfs:vault1
```

16. After some time, list the snapshots on cluster3 and there should be a Snapshot with label tovault.

cluster3::>

```
snapshot show -volume vault1
```

c3_nfs vault1

tovault.2022-07-25_2325	196KB	0%	30%
tovault.2022-07-25_2330	232KB	0%	34%
tovault.2022-07-25_2335	232KB	0%	34%
tovault.2022-07-25_2340	236KB	0%	34%
tovault.2022-07-25_2345	260KB	0%	36%
tovault.2022-07-25_2350	280KB	0%	38%
tovault.2022-07-25_2355	292KB	0%	39%
tovault.2022-07-26_0000	188KB	0%	29%