



Adding and removing volumes in a consistency group

ONTAP 9

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If you want to change the composition of the consistency group by adding or removing a volume, you must first delete the original relationship and then create the consistency group again with the new composition.

About this task

- The composition change is not allowed when the consistency group is in the “InSync” state.
- The destination volume should be of type DP.

The new volume you add to expand the consistency group must have a pair of common Snapshot copies between the source and destination volumes.

Steps

This procedure assumes that there are two volume mappings: $\text{vol_src1} \longleftrightarrow \text{vol_dst1}$ and $\text{vol_src2} \longleftrightarrow \text{vol_dst2}$, in a consistency group relationship between the end points $\text{vs1_src:/cg/cg_src}$ and $\text{vs1_dst:/cg/cg_dst}$.

1. Verify that a common Snapshot copy exists between the source and destination volumes on both the source and destination cluster:

```
source::>snapshot show -vserver vs1_src -volume vol_src3 -snapshot snapmirror*
```

```
destination::>snapshot show -vserver vs1_dst -volume vol_dst3 -snapshot snapmirror*
```

2. If no common Snapshot copy exists, create and initialize a FlexVol SnapMirror relationship:

```
destination::>snapmirror initialize -source-path vs1_src:vol_src3 -destination-path vs1_dst:vol_dst2
```

3. Delete the zero RTO consistency group relationship:

```
destination::>snapmirror delete -destination-path vs1_dst:vol_dst3
```

4. Release the source SnapMirror relationship and retain the common Snapshot copies:

```
source::>snapmirror release -relationship-info-only true -destination-path vs1_dst:vol_dst3
```

5. Unmap the LUNs and delete the existing consistency group relationship:

```
destination::>lun mapping delete -vserver vs1_dst -path <lun_path> -igroup <igroup_name>
```

NOTE: The destination LUNs are unmapped, while the LUNs on the primary copy continue to serve the host I/O.

```
destination::>snapmirror delete -destination-path vs1_dst:/cg/cg_dst
```

```
source::>snapmirror release -destination-path vs1_dst:/cg/cg_dst -relationship
```

```
-info-only true
```

6. Create the new consistency group with the new composition:

```
destination::>snapmirror create -source-path vs1_src:/cg/cg_src -destination  
-path vs1_dst:/cg/cg_dst -cg-item-mappings vol_src1:@vol_dst1,  
vol_src2:@vol_dst2, vol_src3:@vol_dst3
```

7. Resynchronize the zero RTO consistency group relationship to ensure it is in sync:

```
destination::>snapmirror resync -destination-path vs1_dst:/cg/cg_dst
```

8. Remap the LUNs that you unmapped in Step 5:

```
destination::> lun map -vserver vs1_dst -path <lun_path> -igroup <igroup_name>
```

9. Rescan host LUN I/O paths to restore all paths to the LUNs.

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