

Reassigning disk ownership for pool 1 disks on the disaster site (MetroCluster IP configurations)

ONTAP MetroCluster

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Reassigning disk ownership for pool 1 disks on the disaster site (MetroCluster IP configurations)

If one or both of the controller modules or NVRAM cards were replaced at the disaster site, the system ID has changed and you must reassign disks belonging to the root aggregates to the replacement controller modules.

About this task

Because the nodes are in switchover mode, only the disks containing the root aggregates of pool1 of the disaster site will be reassigned in this task. They are the only disks still owned by the old system ID at this point.

This task is performed on the replacement nodes at the disaster site.

This task is performed in Maintenance mode.

The examples make the following assumptions:

- · Site A is the disaster site.
- node_A_1 has been replaced.
- node A 2 has been replaced.
- Site B is the surviving site.
- node_B_1 is healthy.
- node B 2 is healthy.

The old and new system IDs were identified in Determining the new System IDs of the replacement controller modules.

The examples in this procedure use controllers with the following system IDs:

Node	Original system ID	New system ID
node_A_1	4068741258	1574774970
node_A_2	4068741260	1574774991
node_B_1	4068741254	unchanged
node_B_2	4068741256	unchanged

Steps

1. With the replacement node in Maintenance mode, reassign the root aggregate disks, using the correct command, depending on whether your system is configured with ADP and your ONTAP version.

You can proceed with the reassignment when prompted.

If the system is using ADP	Use this command for disk reassignment

Yes (ONTAP 9.8)	disk reassign -s old-system-ID -d new-system-ID -r dr-partner-system-ID
Yes (ONTAP 9.7.x and earlier)	disk reassign -s old-system-ID -d new-system-ID -p old-partner-system-ID
No	disk reassign -s old-system-ID -d new-system-ID

The following example shows reassignment of drives on a non-ADP system:

```
*> disk reassign -s 4068741256 -d 1574774970
Partner node must not be in Takeover mode during disk reassignment from
maintenance mode.
Serious problems could result!!
Do not proceed with reassignment if the partner is in takeover mode.
Abort reassignment (y/n)? n
After the node becomes operational, you must perform a takeover and
giveback of the HA partner node to ensure disk reassignment is
successful.
Do you want to continue (y/n)? y
Disk ownership will be updated on all disks previously belonging to
Filer with sysid 537037643.
Do you want to continue (y/n)? y
disk reassign parameters: new home owner id 537070473 ,
new home owner name
Disk Om.i0.3L14 will be reassigned.
Disk Om.iO.1L6 will be reassigned.
Disk Om.iO.1L8 will be reassigned.
Number of disks to be reassigned: 3
```

2. Destroy the contents of the mailbox disks:

```
mailbox destroy local
```

You can proceed with the destroy operation when prompted.

The following example shows the output for the mailbox destroy local command:

- 3. If disks have been replaced, there will be failed local plexes that must be deleted.
 - a. Display the aggregate status:

```
aggr status
```

In the following example, plex node_A_1_aggr0/plex0 has failed.

```
*> aggr status
Aug 18 15:00:07 [node B 1:raid.vol.mirror.degraded:ALERT]: Aggregate
node A 1 aggr0 is
   mirrored and one plex has failed. It is no longer protected by
mirroring.
Aug 18 15:00:07 [node B 1:raid.debug:info]: Mirrored aggregate
node A 1 aggr0 has plex0
   clean(-1), online(0)
Aug 18 15:00:07 [node B 1:raid.debug:info]: Mirrored aggregate
node A 1 aggr0 has plex2
   clean(0), online(1)
Aug 18 15:00:07 [node B 1:raid.mirror.vote.noRecord1Plex:error]:
WARNING: Only one plex
   in aggregate node A 1 aggr0 is available. Aggregate might contain
stale data.
Aug 18 15:00:07 [node B 1:raid.debug:info]:
volobj mark sb recovery aggrs: tree:
   node A 1 aggr0 vol state: 1 mcc dr opstate: unknown
Aug 18 15:00:07 [node B 1:raid.fsm.commitStateTransit:debug]:
/node A 1 aggr0 (VOL):
   raid state change UNINITD -> NORMAL
Aug 18 15:00:07 [node B 1:raid.fsm.commitStateTransit:debug]:
/node A 1_aggr0 (MIRROR):
   raid state change UNINITD -> DEGRADED
Aug 18 15:00:07 [node B 1:raid.fsm.commitStateTransit:debug]:
/node A 1 aggr0/plex0
   (PLEX): raid state change UNINITD -> FAILED
Aug 18 15:00:07 [node B 1:raid.fsm.commitStateTransit:debug]:
/node A 1 aggr0/plex2
   (PLEX): raid state change UNINITD -> NORMAL
Aug 18 15:00:07 [node B 1:raid.fsm.commitStateTransit:debug]:
/node A 1 aggr0/plex2/rg0
   (GROUP): raid state change UNINITD -> NORMAL
Aug 18 15:00:07 [node B 1:raid.debug:info]: Topology updated for
aggregate node A 1 aggr0
  to plex plex2
*>
```

b. Delete the failed plex:

```
aggr destroy plex-id
```

```
*> aggr destroy node_A_1_aggr0/plex0
```

4.	Halt the node to display the LOADER prompt:
	halt

5. Repeat these steps on the other node at the disaster site.

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