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How to Swap Voting Disks Across Storage in a Diskgroup (文档 ID 1558007.1)

APPLIES TO:

Oracle Database - Enterprise Edition - Version 11.2.0.1 and later
Oracle Database Cloud Schema Service - Version N/A and later
Oracle Database Exadata Express Cloud Service - Version N/A and later
Gen 1 Exadata Cloud at Customer (Oracle Exadata Database Cloud Machine) - Version N/A and later
Oracle Cloud Infrastructure - Database Service - Version N/A and later
Information in this document applies to any platform.

GOAL

You currently have 5 voting disks that are on Type-1 storage. You want to add 5 disks of Type-2 storage and than remove the Type-1 storage.

```
crsctl query css votedisk;

## STATE File Universal Id File Name Disk group

1. ONLINE 0a2ae97910dd4f27bff10ffbb002089f (ORCL:OCRVOTE1) [OCRVOTE]

2. ONLINE 1b4272879f284f56bf1336e0af88d1b1 (ORCL:OCRVOTE2) [OCRVOTE]

3. ONLINE 04c92b5c1a3c4ff5bf1a8521ea809437 (ORCL:OCRVOTE3) [OCRVOTE]

4. ONLINE 679558b631c54f7dbfcb833d9c8321b1 (ORCL:OCRVOTE4) [OCRVOTE]

5. ONLINE 42a672aed6884f4ebff543cc2d1dcc64 (ORCL:OCRVOTE5) [OCRVOTE]

Located 5 voting disk(s).
```

Which steps should you follow?

SOLUTION

Follow these steps:

Find the fail groups using the query below. Here we can see they are FG1/2/3/4/5

```
col name format a15;
col path format a25;
col failgroup format a20;
select dg.name, d.path, d.failgroup, d.failgroup type
from v$asm diskgroup dg, v$asm disk d
where dg.group number = d.group number and dg.name = 'OCRVOTE'
order by dg.name, d.path, d.failgroup;
             PATH
                                  FAILGROUP
                                                     FAILGRO
OCRVOTE
            ORCL:OCRVOTE1
                                  FG1
                                                     REGULAR
            ORCL:OCRVOTE2
OCRVOTE
            ORCL:OCRVOTE3
                                  FG3
                                                     REGULAR
OCRVOTE
            ORCL:OCRVOTE4
                                   FG4
                                                     REGULAR
OCRVOTE
            ORCL:OCRVOTE5
                                   FG5
                                                     REGULAR
```

From node 1 add each disk to a fail group:

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```
sqlplus " / as sysasm"

ALTER DISKGROUP OCRVOTE ADD FAILGROUP FG1 DISK 'ORCL:OCRVOTE101' FAILGROUP FG2 DISK
'ORCL:OCRVOTE102' FAILGROUP FG3 DISK 'ORCL:OCRVOTE103' FAILGROUP FG4 DISK 'ORCL:OCRVOTE104'
FAILGROUP FG5 DISK 'ORCL:OCRVOTE105';
```

Monitor that the rebalance completed, check gv\$asm_operation till it returns no rows.

```
col name format a15;
col path format a25;
col failgroup format a20;
select dg.name, d.path, d.failgroup, d.failgroup_type
from v$asm_diskgroup dg, v$asm_disk d
where dg.group_number = d.group_number and dg.name = 'OCRVOTE'
order by dg.name, d.failgroup, d.path;
               PATH
NAME
                                        FATLGROUP
                                                             FATLGRO
OCRVOTE
               ORCL:OCRVOTE1
                                        FG1
OCRVOTE
               ORCL:OCRVOTE101
                                        FG1
                                                             REGULAR
              ORCL:OCRVOTE102
                                        FG2
OCRVOTE
                                                             REGULAR
              ORCL:OCRVOTE2
OCRVOTE
                                       FG2
                                                             REGULAR
              ORCL:OCRVOTE103
OCRVOTE
                                       FG3
                                                             REGULAR
OCRVOTE
              ORCL:OCRVOTE3
                                       FG3
                                                             REGULAR
              ORCL:OCRVOTE104
OCRVOTE
                                       FG4
                                                             REGULAR
              ORCL:OCRVOTE4
OCRVOTE
                                        FG4
                                                             REGULAR
               ORCL:OCRVOTE105
OCRVOTE
                                        FG5
                                                             REGULAR
OCRVOTE
              ORCL:OCRVOTE5
                                        FG5
                                                             REGULAR
```

The above shows 2 disk for each fail group.

Remove the old disks

```
ALTER DISKGROUP OCRVOTE drop disk
'OCRVOTE1',
'OCRVOTE2',
'OCRVOTE3',
'OCRVOTE4',
'OCRVOTE5';

Diskgroup altered.
```

Monitor that the rebalance completed, check gv\$asm operation till it returns no rows.

```
col name format a15;
col path format a25;
col failgroup format a20;
select dg.name, d.path, d.failgroup, d.failgroup type
from v$asm_diskgroup dg, v$asm_disk d
where dg.group_number = d.group_number and dg.name = 'OCRVOTE'
order by dg.name, d.failgroup, d.path;
NAME
            PATH
                                  FAILGROUP
                                                    FAILGRO
OCRVOTE
            ORCL:OCRVOTE101
                                  FG1
                                                     REGULAR
            ORCL:OCRVOTE102
OCRVOTE
                                  FG2
                                                     REGULAR
OCRVOTE
             ORCL:OCRVOTE103
                                   FG3
                                                     REGULAR
             ORCL:OCRVOTE104
OCRVOTE
                                   FG4
                                                     REGULAR
OCRVOTE
           ORCL:OCRVOTE105
                                   FG5
                                                     REGULAR
```

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The above shows 1 disk ONLY for each fail group.

REFERENCES

NOTE:428681.1 - OCR / Vote disk Maintenance Operations: (ADD/REMOVE/REPLACE/MOVE)
NOTE:1187723.1 - Primary Note for Automatic Storage Management (ASM)
未找到您要查找的产品?