**Adding new storage disks and Dropping old storage disks from OCR ,Vote diskgroup (文档 ID 2073993.1)**

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**Applies to:**

Oracle Database - Enterprise Edition - Version 11.2.0.3 and later  
 Information in this document applies to any platform.

**Goal**

 Need to drop old disks and add new disks to OCR diskgroup online.

**Solution**

Three disks in OCR\_VOTE diskgroup.

[oragrid@node1 ~]$ ocrcheck  
 Status of Oracle Cluster Registry is as follows :  
 Version : 4  
 Total space (kbytes) : 409568  
 Used space (kbytes) : 1888  
 Available space (kbytes) : 407680  
 ID : 1572912627  
 Device/File Name : +VOTEDISK  
 Device/File integrity check succeeded

Device/File not configured

Device/File not configured

Device/File not configured

Device/File not configured

Cluster registry integrity check succeeded

Logical corruption check bypassed due to non-privileged user

NAME PATH FAILGROUP STATE  
 ------------------------------ ---------------------------------------- ------------------------------ --------  
 VOTEDISK\_0005 /dev/oracleasm/disks/ASMLIB2 VOTE3 NORMAL  
 VOTEDISK\_0001 /dev/oracleasm/disks/ASMLIB3 VOTE1 NORMAL  
 VOTEDISK\_0004 /dev/oracleasm/disks/ASMLIB4 VOTE2 NORMAL

[oragrid@node1 ~]$ crsctl query css votedisk  
 ## STATE File Universal Id File Name Disk group  
 -- ----- ----------------- --------- ---------  
 1. ONLINE 169d280e18854fddbf3b40916d5f61b2 (/dev/oracleasm/disks/ASMLIB2) [VOTEDISK]  
 2. ONLINE 81e4cb2409104f59bf8b37f6eddac70a (/dev/oracleasm/disks/ASMLIB3) [VOTEDISK]  
 3. ONLINE 469e845615d94fcabfb7fe63be8cbc1d (/dev/oracleasm/disks/ASMLIB4) [VOTEDISK]

So adding three more disks , each disk to each failgroup  
  
 New disks

/dev/oracleasm/disks/OCRVD\_NEW1  
 /dev/oracleasm/disks/OCRVD\_NEW2  
 /dev/oracleasm/disks/OCRVD\_NEW3

Adding new disks

SQL> alter diskgroup VOTEDISK add  
 failgroup VOTE1 disk '/dev/oracleasm/disks/OCRVD\_NEW1'  
 failgroup VOTE2 disk '/dev/oracleasm/disks/OCRVD\_NEW2'  
 failgroup VOTE3 disk '/dev/oracleasm/disks/OCRVD\_NEW3' rebalance power 6; 2 3 4

Diskgroup altered.

check if the rebalance got completed. select \* from v$asm\_operation;

Checking if the old disks and new disks are visible in v$asm\_disk

NAME PATH FAILGROUP STATE  
 ------------------------------ ---------------------------------------- ------------------------------ --------  
 VOTEDISK\_0005 /dev/oracleasm/disks/ASMLIB2 VOTE3 NORMAL  
 VOTEDISK\_0001 /dev/oracleasm/disks/ASMLIB3 VOTE1 NORMAL  
 VOTEDISK\_0003 /dev/oracleasm/disks/OCRVD\_NEW3 VOTE3 NORMAL  
 VOTEDISK\_0000 /dev/oracleasm/disks/OCRVD\_NEW1 VOTE1 NORMAL  
 VOTEDISK\_0004 /dev/oracleasm/disks/ASMLIB4 VOTE2 NORMAL  
 VOTEDISK\_0002 /dev/oracleasm/disks/OCRVD\_NEW2 VOTE2 NORMAL

6 rows selected.

Drop the old disks

alter diskgroup votedisk drop disk VOTEDISK\_0001,VOTEDISK\_0005,VOTEDISK\_0004 rebalance power 6;

check v$asm\_operation;

Once the rebalance is done , query the below command in all the nodes to check if the new disks are listing as Voting disks

[oragrid@node1 ~]$ crsctl query css votedisk  
 ## STATE File Universal Id File Name Disk group  
 -- ----- ----------------- --------- ---------  
 1. ONLINE ec3ef8924eb64f66bf7201acfa731164 (/dev/oracleasm/disks/OCRVD\_NEW1) [VOTEDISK]  
 2. ONLINE 9ac51729e2f74faabfe6c33207fd9f31 (/dev/oracleasm/disks/OCRVD\_NEW2) [VOTEDISK]  
 3. ONLINE 0da4509b82304f2ebfb68099d72f1dac (/dev/oracleasm/disks/OCRVD\_NEW3) [VOTEDISK]

**References**

[NOTE:428681.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=2073993.1&id=428681.1) - OCR / Vote disk Maintenance Operations: (ADD/REMOVE/REPLACE/MOVE)