**How to add more space to oracle ASM on NetApp**

Easiest is to add datafile to ASM diskgroup.

First find out size of disks and see how much space is required in file system

(PRD)[oracle@lg2prdsrv-db21 ~]$ df -h /opt/contexts/prd-eqd\*  
Filesystem Size Used Avail Use% Mounted on  
10.23.73.133:/vol/vol\_lg2prdsrv\_db21\_eqd\_suite 100G 1.4G 99G 2% /opt/contexts/prd-eqd  
10.23.73.132:/vol/vol\_lg2prdsrv\_db21\_eqd\_data1 840G 614G 227G 74% /opt/contexts/prd-eqd-data1  
10.23.73.133:/vol/vol\_lg2prdsrv\_db21\_eqd\_data2 840G 582G 259G 70% /opt/contexts/prd-eqd-data2

There is 200G space of free space on each data device

(PRD)[oracle@lg2prdsrv-db21 ~]$ ls -l /opt/contexts/prd-eqd-data\*  
/opt/contexts/prd-eqd-data1:  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:22 PRDEQD02\_DATA01  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:22 PRDEQD02\_DATA03  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:20 PRDEQD02\_DATA05  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:22 PRDEQD02\_DATA07  
-rw-r--r-- 1 oracle oinstall 46040080384 Jun 22 16:22 PRDEQD02\_DATA11  
-rw-rw-r-- 1 oracle oinstall 5368709120 Jun 22 16:22 PRDEQD02\_REDO01  
-rw-rw-r-- 1 oracle oinstall 5368709120 Jun 22 16:20 PRDEQD02\_REDO03  
/opt/contexts/prd-eqd-data2:  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:22 PRDEQD02\_DATA02  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:22 PRDEQD02\_DATA04  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:21 PRDEQD02\_DATA06  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:22 PRDEQD02\_DATA08  
-rw-rw-r-- 1 oracle oinstall 107374182400 Jun 22 16:21 PRDEQD02\_DATA10  
-rw-rw-r-- 1 oracle oinstall 5368709120 Jun 22 16:22 PRDEQD02\_REDO02  
-rw-rw-r-- 1 oracle oinstall 5368709120 Jun 22 16:20 PRDEQD02\_REDO04

Each data file is 100G in size. So adding another to each “data” volume will be fine.

Doing the sizing: Take the 107374182400 on disk and divide by 4096 (4k). This gives: 26214400  
So for the dd – use 26214400 and 4k like so:

**As Oracle**

dd if=/dev/zero of=/opt/contexts/prd-eqd-data1/PRDEQD02\_DATA11 bs=4k count=26214400  
dd if=/dev/zero of=/opt/contexts/prd-eqd-data2/PRDEQD02\_DATA12 bs=4k count=26214400  
chmod g+w /opt/contexts/prd-eqd-data1/PRDEQD02\_DATA11  
chmod g+w /opt/contexts/prd-eqd-data2/PRDEQD02\_DATA12

**As oragrid**

cd sql  
sqlasm  
@GetASMdiskgroups.sql  
alter diskgroup PRDEQD02\_DATA01 add disk '/opt/contexts/prd-eqd-data1/PRDEQD02\_DATA11','/opt/contexts/prd-eqd-data2/PRDEQD02\_DATA12';  
alter diskgroup PRDEQD02\_DATA01 rebalance power 6;  
select \* from v$asm\_operation;  
select name,total\_mb, free\_mb from V$ASM\_DISK where name like 'PRDEQD02\_D%';