

→ To disable/enable the cluster
`$ crsctl disable crs`
`$ crsctl enable crs`
 → To know the status of all resources that are registered in the

cluster:

`$ crsctl stat -t` ⇒ deprecated in 11gR2
`$ crsctl status resource -t`

→ To know the default backup location of OCR file

`$ ocrconfig -showbackup`

→ To take the backup of OCR manually

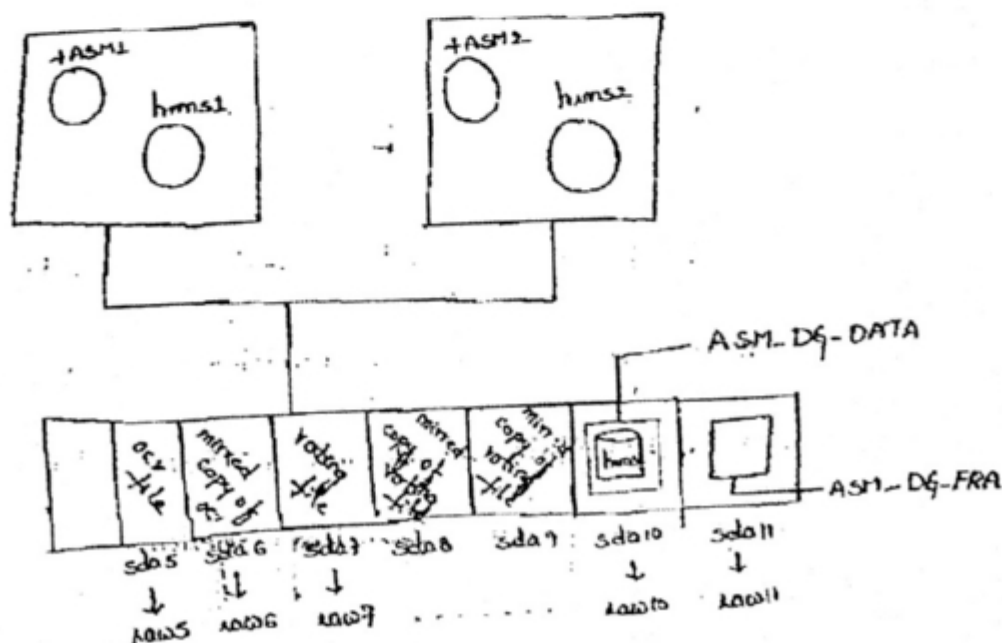
`$ ocrconfig -export /opt/ocr.bkp`

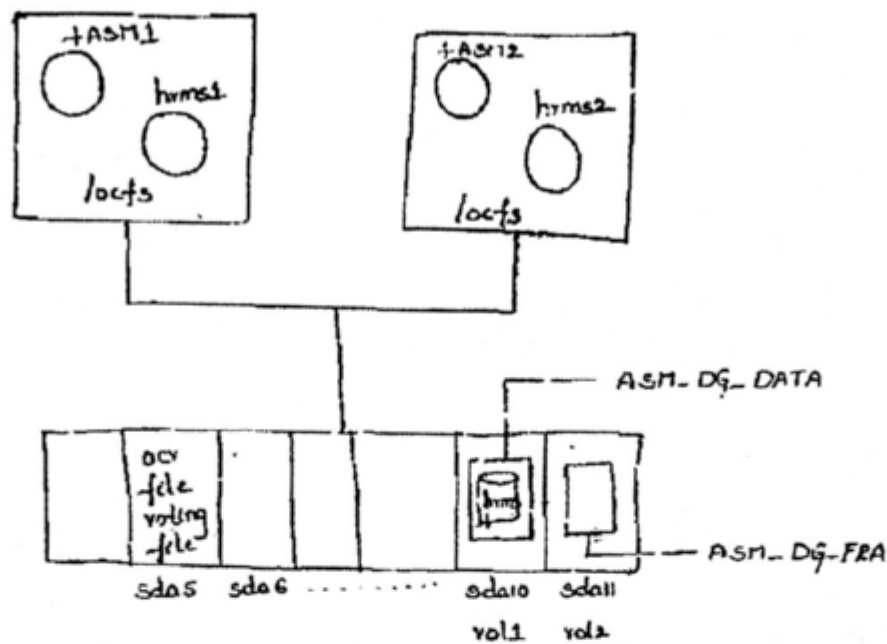
→ To know the entire information about the cluster

`$ cd $ORA_CRS_HOME/install`

`$ cat paramfile.crs`

Implementation of 10g RAC on RHEL AS 4 updates 8
 (kernel version 2.6.9-89.ELsmp) using OCFS2 and ASM devices





- ① create the required no. of groups & oracle account
- ② create the required directory structures for ccs home & DB home
- ③ configure kernel parameters
- ④ set shell limits for oracle user account
- ⑤ Edit /etc/hosts and specify public IP's; private IP's and virtual IP's
- ⑥ configure ssh for user equivalence and trust relationship
- ⑦ create the required number of partitions in the shared storage
- ⑧ Download and install OEFSS and ASM upms based on the kernel version of the operating system.

NODE1

NODE2

uname -a

cd /opt

ls

cd 26489/ rpms/

rpm -vh ocfs2* --nodeps --force
 install ↓ hash
 verbose

rpm -qa | grep ocfs

rpm -vh ocfs2* --nodeps --force

rpm -qa | grep ocfs2

NODE1

Configuring ocfs2 console
 # ocfs2console
 click on cluster

choose configure nodes

click on close

click on Add

Node name: lx02

IP Address : 172.16.128.150

IP Port : 7777

click on Add

Name : lx02

IP Address : 172.16.128.151

IP Port : 7777

click on Apply

click on close



choose cluster

choose propagate configuration

continue configuring: yes

root lmo1's password: lmo1ba

lmo2's password: lmo1ba

close

click on file → Quit

To start the cluster file system functionality during system backup

NODE1

NODE2

cd /etc/init.d

./o2cb enable

Creating OCFS2 file system on the unused disk partition:-

lmo1# mkfs.ocfs2 -b 4k -c 32K -N 4 -L locfs /dev/sdas

block size cluster size No. of nodes label

EE - 100 Nodes

SE - 4 Nodes

Creating a mount point for OCFS2 file system:-

NODE1

NODE2

cd /

1# mkdir locfs

Chown -R oracle:oinstall /locfs -R 775

Mounting OCFS2 file system

NODE1

NODE2

1# mount -t ocfs2 -L locfs -o datavolume locfs

type label

To mount ocfs2 filesystem automatically during system bootup place the entry in /etc/fstab.

NODE1

NODE2

vi /etc/fstab

LABEL = locfs locfs ocfs2 -netdev, datavolume, noinit 0 0

creating the directories for the shared files

NODE1

mkdir -p locfs/ocr

mkdir -p locfs/voting

changing ownership and setting proper permissions on shared directories :-

#

NODE1

NODE2

chown -R oracle:oinstall locfs/ocr

chown -R oracle:oinstall locfs/voting

chmod -R 775 locfs/ocr

chmod -R 775 locfs/voting

Configuring ASM lib

NODE1

NODE2

cd /etc/init.d

./oracleasm configure

: oracle

: dba

: y

Labeling disks for ASM usage

NODE1

```
# cd /etc/init.d
# ./oraacleasm createdisk vol1 /dev/sdn10
# ./oraacleasm createdisk vol2 /dev/sdn11
# ./oraacleasm scandisks
# ./oraacleasm listdisks
```

NODE2

```
# cd /etc/init.d
# ./oraacleasm scandisks
# ./oraacleasm listdisks
```

Installing oracle clusterware :-

```
# su - oracle
$ cd /opt/clusterware/
$ sh runInstaller
```

Next

Specify Home Details

click on browse /u01/app/oracle/product/10.2.0/crs-home

Select crs-home

click on ok

Next

↓
Next

Specify cluster configuration

click on Add

public Node Name:

private Node Name:

Virtual Host Name: lna02-vip

Next

Specify N/w interface usage

choose eth0

click on edit

choose public

click on ok

Next

Specify Oracle cluster Registry location

specify ocr location: /ocr/ocr-file

Next

Specify voting disk location

choose external redundancy

voting disk location: /ocr/voting/voting-file

Next

INSTALL

Execute the script

NODE1

NODE2

lna01] # /u01/app/oracle/product/10.2.0/crs-home/root.sh & error

lna01] # cd /u01/app/oracle/product/10.2.0/crs-home/bin

./lvipca

Next

IP address lna01: 192.16.128.199

lna02: 192.16.128.200

Next

Finish

ok

EXIT

Installing Oracle Binaries

cd /opt/database-otn/

sh runInstaller

↓
Next

① Enterprise Edition

Next

Specify Home Details

path: /u01/app/oracle/DB-HOME

Next

Select all

Next

Next

② Install database software only

Next

Install

[root]# cd /u01/app/oracle/product/10.2.0/db-home/root.sh

↙
y
y

[root]# some

Configure listener

netca

③ cluster configuration

Next

Next

④ listener configuration

Next

↓
Add

Next

Listener Name: LISTENER

Next
↓
Next

port 1521
Next

Would you like to configure another listener.
No
Next
Finish

Configuring ASM :-

dbca

① Oracle RAC DB
Next

Configure ASM
Next

Select All
Next

syspassword: RACDBA

② Create initialization parameter file
click on ok

click on create new

Disk Group Name: ASM-DG-DATA

③ External

select one disk path

click on ok

click on create new

Disk Group Name: ASM-DG-FRA

① External

select one disk path

click on ok

finish

ok

Creating RAC database :-

\$dbca

① ORACLE RAC database

Next

① Create DB

Next

select all

Next

↓
Next

Database Name: hrms

Next

↓
Next

Syspassword: RACDBA

Next

① choose ASM

Next

Select ASM-DG-DATA

Next

① use common location for all dotfiles
Next

☒ Specify Flash Recovery Area

☒ Enable Archiving

Click on Browse

Select ASM-DG-FRA

click on ok

click on edit archivelog destination

delete archivelog destination

click on ok

Next

↓

Next

↓

Next

↓

Finish

Stopping cluster:-

```
ln01] # cd /etc/init.d
```

```
# ./init.crs stop
```

```
ln01] # cd /u01/app/oracle/product/11g.2.0/crs_home/bin
```

```
# ./crsctl stop crs
```

```
ln01] # init 0
```

```
ln02] # init 0
```



DeInstallation:

Deleting a Database

```
# # xhost +
```

```
# su - oracle
```

```
$ dbca
```

① Select oracle RAC database

Next

① Select delete a database

↓
Next

↓
Finish

yes :

```
$ ps -ef | grep smon
```