

Oracle Clusterware Management (CRSCTL)



CRSCTL Utility is used to managed oracle clusterware resources and components. Make sure to run environment script `. grid_env` in the terminal first.

1. STOP & START CRS: (run from root user)

Note: You can skip the following start & stop commands if you already done it in the lab environment.

```
$GRID_HOME/bin/crsctl stop crs  
  
$GRID_HOME/bin/crsctl start crs
```

2. Enable/Disable auto restart of CRS.

```
$GRID_HOME/bin/crsctl disable crs  
  
$GRID_HOME/bin/crsctl enable crs
```

3. Find the cluster name

```
$GRID_HOME/bin/cemutlo -n  
  
or  
  
$GRID_HOME/bin/olsnodes -c
```

4. Find grid version:

SYNTAX -- `$GRID_HOME/bin/crsctl query crs softwareversion`

```
$GRID_HOME/bin/crsctl query crs softwareversion ol7-122-rac1
```

Task:

- 1) Find software version for Node "ol7-122-rac2" after updating above command.
- 2) What will happen if no nodename is passed to above command?
- 3) What will happen if invalid nodename is passed to above command?

5. check cluster component status

```
$GRID_HOME/bin/crsctl stat res -t  
  
$GRID_HOME/bin/crsctl check crs  
  
$GRID_HOME/bin/crsctl check cssd  
  
$GRID_HOME/bin/crsctl check crsd  
  
$GRID_HOME/bin/crsctl check evmd
```

6. Find voting disk location

```
$GRID_HOME/bin/crsctl query css votedisk
```

7. Find OCR location:

```
$GRID_HOME/bin/ocrcheck
```

8. Find cluster interconnect details

As `oracle` user:

```
...  
. db_env  
sqlplus / as sysdba  
...  
  
select NAME,IP_ADDRESS from v$cluster_interconnects;  
  
NAME                IP_ADDRESS  
-----  
enpso9:1            192.254.78.247
```

Note

If you are running above query from Node 2. Make sure to first edit the `"/home/oracle/db_env"` file on the "ol7-122-rac2" node to use the correct the `ORACLE_SID` and `ORACLE_HOSTNAME` values.

```
export ORACLE_SID=cdbbrac2  
export ORACLE_HOSTNAME=ol7-122-rac2.localdomain
```

9. Check CRS status of local node

```
crsctl check crs  
  
CRS-4638: Oracle High Availability Services is online  
CRS-4537: Cluster Ready Services is online  
CRS-4529: Cluster Synchronization Services is online  
CRS-4533: Event Manager is online
```

10. Check status of all crs resources

```
$GRID_HOME/bin/crsctl stat res -t  
$GRID_HOME/bin/crsctl stat res -t -init
```

10. Check active version of cluster

```
crsctl query crs activeversion  
Oracle Clusterware active version on the cluster is [12.1.0.2.0]
```

11. Stop and start high availability service (HAS)

```
crsctl stop has  
  
crsctl start has
```

12. Check CRS status of remote nodes

```
crsctl check cluster  
  
crsctl check cluster -all
```

13. Disk timeout from node to voting disk(disktimeout)

```
crsctl get css disktimeout  
CRS-4678: Successful get disktimeout 200 for Cluster Synchronization Services.
```

14. Network latency in the node interconnect(Misscount)

```
crsctl get css misscount  
CRS-4678: Successful get misscount 30 for Cluster Synchronization Services.
```

15 . Get ocr disk backup details

```
ocrconfig -showbackup
```

16 . Check whether standard or flex ASM

```
crsctl get cluster mode status  
  
Cluster is running in "flex" mode
```

17 . Check CRS configuration

```
crsctl config crs
```

18. crsctl has commands for standalone grid infrastructure

```
crsctl check has  
crsctl config has  
crsctl disable has  
crsctl enable has  
crsctl query has releaseversion  
crsctl query has softwareversion  
crsctl start has  
crsctl stop has
```

Task Solution

```
1) crsctl query crs softwareversion ol7-122-rac2  
3) Current node version  
3) Error expected
```