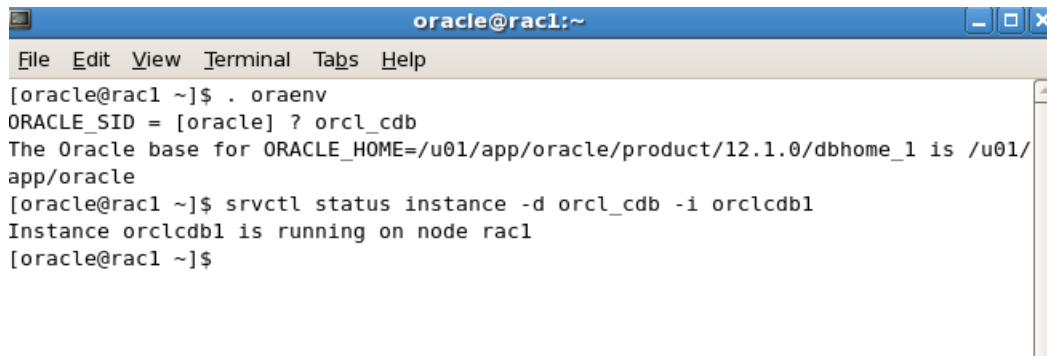Oracle 12c RAC

Lab Module 3
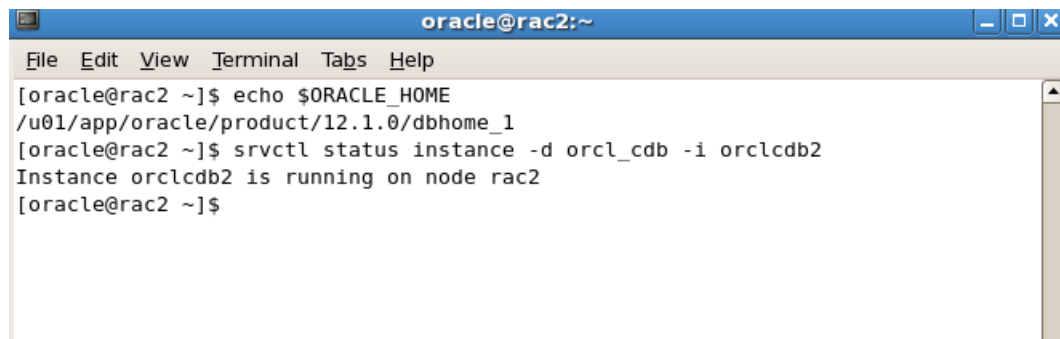
Module 3 Lab: Managing a RAC instance

1) Set the environment to the database home as **oracle** user
    a.   . db_env
2) Use srvctl to check the status of the an instance on rac1
    a.   srvctl status instance –d cdbrac –i cdbrac1
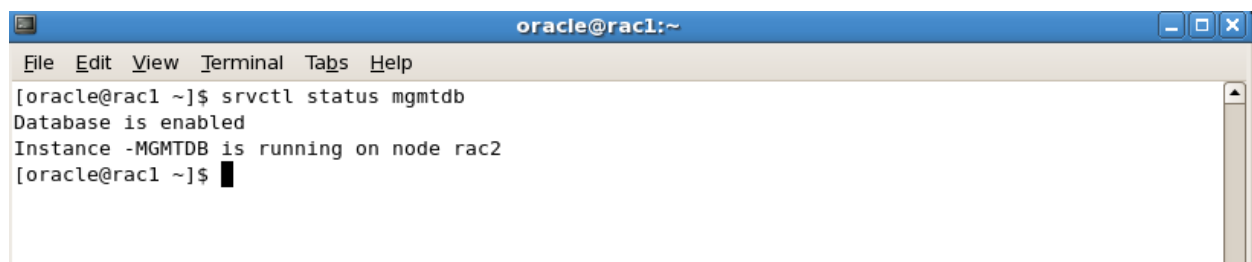
```
oracle@rac1:~
File  Edit  View  Terminal  Tabs  Help
[oracle@rac1 ~]$ . oraenv
ORACLE_SID = [oracle] ? orcl_cdb
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/12.1.0/dbhome_1 is /u01/
app/oracle
[oracle@rac1 ~]$ srvctl status instance -d orcl_cdb -i orclcdb1
Instance orclcdb1 is running on node rac1
[oracle@rac1 ~]$
```

3) Use srvctl to check the status of the instance on rac2
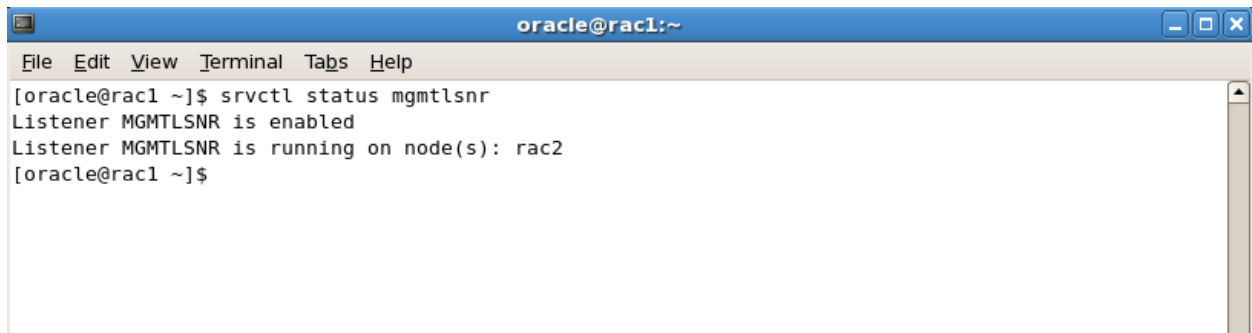   a.   srvctl status instance –d cdbrac –i cdbrac2

```
oracle@rac2:~
File  Edit  View  Terminal  Tabs  Help
[oracle@rac2 ~]$ echo $ORACLE_HOME
/u01/app/oracle/product/12.1.0/dbhome_1
[oracle@rac2 ~]$ srvctl status instance -d orcl_cdb -i orclcdb2
Instance orclcdb2 is running on node rac2
[oracle@rac2 ~]$
```

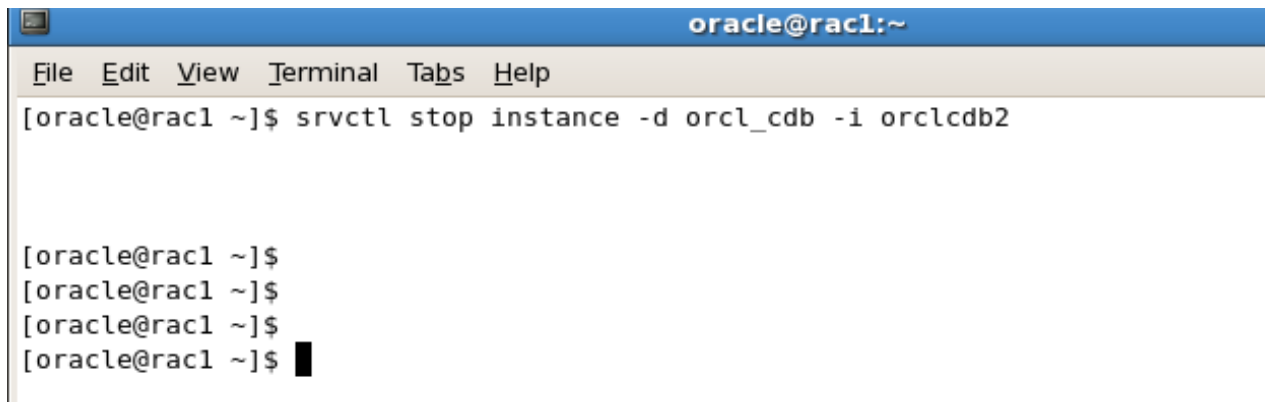4) Check the status of the mgmtdb database
    a.   srvctl status mgmtdb

```
oracle@rac1:~
File  Edit  View  Terminal  Tabs  Help
[oracle@rac1 ~]$ srvctl status mgmtdb
Database is enabled
Instance -MGMTDB is running on node rac2
[oracle@rac1 ~]$
```

5) Check the status of mgmt. listener
   a. srvctl status mgmtlsnr

```
                              oracle@rac1:~
File  Edit  View  Terminal  Tabs  Help
[oracle@rac1 ~]$ srvctl status mgmtlsnr
Listener MGMTLSNR is enabled
Listener MGMTLSNR is running on node(s): rac2
[oracle@rac1 ~]$
```

6) Shutdown instance cdbrac2

   a. srvctl stop instance –d cdbrac –i cdbrac2

```
                              oracle@rac1:~
File  Edit  View  Terminal  Tabs  Help
[oracle@rac1 ~]$ srvctl stop instance -d orcl_cdb -i orclcdb2


[oracle@rac1 ~]$
[oracle@rac1 ~]$
[oracle@rac1 ~]$
[oracle@rac1 ~]$ █
```

7) Start instance cdbrac2

   a. srvctl start instance –d cdbrac –i cdbrac2

8) Stop the database cdbrac

   a. srvctl stop database –d cdbrac

```
[oracle@rac1 ~]$
[oracle@rac1 ~]$ srvctl stop database -d orcl_cdb
```

9)   Start the database cdbrac

        a.   srvctl start database –d cdbrac

```
[oracle@rac1 ~]$ srvctl start database -d orcl_cdb

[oracle@rac1 ~]$
[oracle@rac1 ~]$ srvctl status database -d orcl_cdb

Instance orclcdb1 is running on node rac1
Instance orclcdb2 is running on node rac2
[oracle@rac1 ~]$
[oracle@rac1 ~]$
```

10)   Set the environment on rac1 to cdbrac

```
[oracle@rac1 ~]$ . oraenv
ORACLE_SID = [orcl_cdb] ?
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/12.1.0/dbhome_1 is /u01/app/oracle
[oracle@rac1 ~]$ █
```

11)   On rac1 navigate to $ORACLE_BASE/diag/rdbms/cdbrac/cdbrac1

```
[oracle@rac1 ~]$ cd /u01/app/oracle/diag/rdbms/orcl_cdb/orclcdb1/
[oracle@rac1 orclcdb1]$ pwd
/u01/app/oracle/diag/rdbms/orcl_cdb/orclcdb1
[oracle@rac1 orclcdb1]$ █
```

12)   cd to the trace directory

13)   Use either 'vi or gedit to open up the alertcdbrac1.ora and review its contents.

```
Fri Apr 10 09:21:00 2015
Starting ORACLE instance (normal) (OS id: 16896)
Fri Apr 10 09:21:00 2015
CLI notifier numLatches:3 maxDescs:519
Fri Apr 10 09:21:00 2015
************************************************************************
Fri Apr 10 09:21:00 2015
Dump of system resources acquired for SHARED GLOBAL AREA (SGA)

Fri Apr 10 09:21:00 2015
 Per process system memlock (soft) limit = 32K
Fri Apr 10 09:21:00 2015
 Expected per process system memlock (soft) limit to lock
 SHARED GLOBAL AREA (SGA) into memory: 1778M
Fri Apr 10 09:21:00 2015
 Available system pagesizes:
  4K, 2048K
Fri Apr 10 09:21:00 2015
 Supported system pagesize(s):
Fri Apr 10 09:21:00 2015
  PAGESIZE  AVAILABLE_PAGES  EXPECTED_PAGES  ALLOCATED_PAGES  ERROR(s)
Fri Apr 10 09:21:00 2015
       4K       Configured               3           454659      NONE
Fri Apr 10 09:21:00 2015
    2048K                0             889                0      NONE
Fri Apr 10 09:21:00 2015
RECOMMENDATION:
Fri Apr 10 09:21:00 2015
 1. For optimal performance, configure system with expected number
                                                             1,1          Top
```

14)   Do these exact same steps for rac2, however for instance name use 'cdbrac2'