

Oracle 12c RAC

Lab Module 7

Module 7 Lab: Create a service for the container database and pluggable database

- 1) Create a service for the container database.
 - a. Set the environment to the cdbrac
 - b. \$. oraenv
 - c. cdbrac
 - d. srvctl add service -d cdbrac -s hr -p cdbrac1, cdbrac2
 - e. srvctl start service -d cdbrac -s hr
 - f. srvctl config database -d cdbrac

```
[oracle@rac1 ~]$ srvctl add service -d orcl_cdb -s hr -p preferred orclcdb1,orclcdb2
[oracle@rac1 ~]$ srvctl start service -d orcl_cdb
[oracle@rac1 ~]$ srvctl config database -d orcl_cdb
Database unique name: orcl_cdb
Database name: orcl_cdb
Oracle home: /u01/app/oracle/product/12.1.0/dbhome_1
Oracle user: oracle
Spfile: +DATA/ORCL_CDB/PARAMETERFILE/spfile.271.876648557
Password file: +DATA/ORCL_CDB/PASSWORD/pwdorcl_cdb.256.876648051
Domain:
Start options: open
Stop options: immediate
Database role: PRIMARY
Management policy: AUTOMATIC
Server pools:
Disk Groups: FRA,DATA
Mount point paths:
Services: hr
Type: RAC
Start concurrency:
Stop concurrency:
OSDBA group: vboxsf
OSOPER group: vboxsf
Database instances: orclcdb1,orclcdb2
Configured nodes: rac1,rac2
Database is administrator managed
[oracle@rac1 ~]$ █
```

- 2) Verify connection using the service
 - a. sqlplus system/fenago@rac-scan:1521/hr
 - b. select username,service_name from gv\$sqlsession;

```

[oracle@rac1 ~]$ sqlplus system/password1@rac-scan:1521/hr

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With the Partitioning, Real Application Clusters, Automatic Storage Management, OLAP,
Advanced Analytics and Real Application Testing options

SQL> get services
   1  select username,service_name from gv$session
   2* where username = 'SYSTEM'
SQL> /

USERNAME
-----
SERVICE_NAME
-----
SYSTEM
hr

SYSTEM
hr

```

3) Create a service name for the pluggable database pdb1

- a. `srvctl add service -d cdbrac -pdb pdb1 -s gl -preferred cdbrac1,cdbrac2`
- b. `srvctl start service -d cdbrac -s gl`

```

[oracle@rac1 ~]$ srvctl add service -d orcl_cdb -pdb orcl_pdb -s gl -preferred orclcdb1,orclcdb2

```

4) Verify connection to the pluggable database.

- a. `sqlplus system/fenago@rac-scan:1521/gl`
- b. `select sys_context('userenv','con_name') from dual`

```

[oracle@rac1 ~]$ sqlplus system/password1@rac-scan:1521/gl

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SQL> select sys_context('userenv','con_name') from dual;

SYS_CONTEXT('USERENV','CON_NAME')
-----
ORCL_PDB

SQL> █

```

- 5) Add the entry into TNSNAMES and then test connections.

```

ORCL_CDB =
(DESCRIPTION =
  (ADDRESS = (PROTOCOL = TCP)(HOST = rac-scan)(PORT = 1521))
  (CONNECT_DATA =
    (SERVER = DEDICATED)
    (SERVICE_NAME = orcl_cdb)
  )
)

HR =
(DESCRIPTION =
  (ADDRESS = (PROTOCOL = TCP)(HOST = rac-scan)(PORT = 1521))
  (CONNECT_DATA =
    (SERVER = DEDICATED)
    (SERVICE_NAME = hr)
  )
)

GL =
(DESCRIPTION =
  (ADDRESS = (PROTOCOL = TCP)(HOST = rac-scan)(PORT = 1521))
  (CONNECT_DATA =
    (SERVER = DEDICATED)
    (SERVICE_NAME = gl)
  )
)
~

```

```

[oracle@rac1 admin]$ sqlplus system/password1@gl

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Advanced Analytics and Real Application Testing options

SQL> select sys_context('userenv','con_name') from dual;

SYS_CONTEXT('USERENV','CON_NAME')
-----
ORCL_PDB

SQL> connect system/password1@hr
Connected.
SQL> l
  1  select username,service_name from gv$session
  2* where username = 'SYSTEM'
SQL> /

USERNAME    SERVICE_NAME
-----
SYSTEM      hr
SYSTEM      hr
SYSTEM      hr

SQL>

```
