

Oracle 19c RAC

**Convert RAC to Non-RAC
Using DBCA + Manually**

Part 1: Conversion

Connect to database

```
.oraenv  
CONVERTD1
```

Verify Nodes/Instance/Database

```
SQL> select distinct  
        INSTANCE_NUMBER  
      , INSTANCE_NAME  
      , HOST_NAME  
      , NAME as DB_NAME  
      , OPEN_MODE  
from gv$database, gv$instance;
```

Verify Cluster Parameters

```
SQL> show parameter cluster;
```

Verify if Database is running on pfile or spfile

```
SQL> show parameter spfile;
```

If spfile, create pfile from spfile

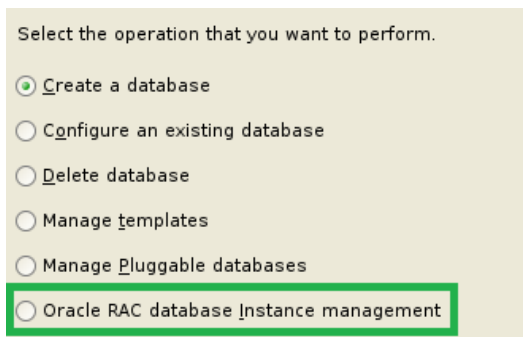
```
SQL> create pfile from spfile
```

Check Remote Connectivity via SQL Developer or any Client

Launch DBCA

`dbca`

choose **Oracle RAC database Instance Management**



Stop the Database

```
srvctl stop database -d CONVERTD
```

```
srvctl status database -d CONVERTD
```

Copy pfile with only database name (Not Instance Name)

```
cd $ORACLE_HOME/dbs
```

```
cp initCONVERTD1.ora initCONVERTD.ora
```

Remove all parameters related to **Instance 2** from pfile.

Rename **Instance 1** parameters as *

Change **cluster_database** to false

Remove Database from Cluster Configuration

```
srvctl remove database -db CONVERTD
```

Add Database back as Single Instance

```
srvctl add database -db CONVERTD  
-oraclehome $ORACLE_HOME -dbtype SINGLE  
-node db1
```

Start the Database

```
srvctl start database -db CONVERTD
```

Add entry in /etc/oratab if its not already there

```
gedit /etc/oratab
```

```
CONVERTD:/dbi/oracle/V193Database:N
```

Set oraenv to new instance/database

```
.oraenv  
CONVERTD
```

Part 2: Database Cleanup

Create spfile from pfile;

```
SQL> show parameter spfile;
```

```
SQL> create  
spfile='+ASM1/CONVERTD/PARAMETERFILE/s  
pfileCONVERTD' from pfile;
```

Create spfile from pfile;

```
SQL> shut immediate;
```

Delete old spfile from ASM - optional

```
ASMCMD> cd +ASM1/CONVERTD/PARAMETERFILE
ASMCMD> ls -l
ASMCMD> rm spfile.260.1098364033
ASMCMD> ls -l
```

Post Verification - Start the Database

```
SQL> show parameter spfile;
SQL> show parameter cluster;
SQL> select thread#, group# from v$log
order by thread#;
```

Check Remote Connectivity

Fix Password file

```
ASMCMD> cd +ASM1/CONVERTD/PASSWORD
```

```
ASMCMD> pwcopy --dbuniquename CONVERTD -f
+ASM1/CONVERTD/PASSWORD/pwdconvertd.336.10983636
65 +ASM1/CONVERTD/PASSWORD/orapwCONVERTD
```

```
ASMCMD> ls -l
```

Delete old password file - optional

```
ASMCMD> rm pwdconverted.336.1098363665
```

```
ASMCMD> ls -l
```