Oracle 19c RAC

Convert RAC to Non-RAC Manually

Part 1: Conversion

Connect to database

```
.oraenv
CONVERTM1
```

Launch DBUA to verify its RAC Database

```
dbua
```

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

Stop the Database

```
srvctl stop   database -d CONVERTM
srvctl status database -d CONVERTM
```

Copy pfile with only database name (Not Instance Name)

```
cd $ORACLE_HOME/dbs
```

```
cp initCONVERTM1.ora initCONVERTM.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 CONVERTM
```

Add Database back as Single Instance

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

Start the Database

```
srvctl start database -db CONVERTM
```

Add entry in /etc/oratab if it's not already present

```
gedit /etc/oratab
```

```
CONVERTM:/dbi/oracle/V193Database:N
```

Set oraenv to new instance/database

```
.oraenv
CONVERTM
```

Launch DBUA to verify its Single Instance Database

```
dbua
```

Part 2: Database Cleanup

```
sqlplus / as sysdba
```

```
SQL> select thread#, group# from v$log order by thread#;
SQL> alter database disable thread 2;
SQL> alter database drop logfile group 3;
SQL> alter database drop logfile group 4;
SQL> select thread#, group# from v$log order by thread#;
```

Drop UNDOTBS2

```
SQL>  drop tablespace UNDOTBS2 including contents and
datafiles;
```

Create spfile from pfile;

```
SQL> show parameter spfile;

SQL> create
spfile='+ASM1/CONVERTM/PARAMETERFILE/s
pfileCONVERTM' from pfile;
```

Create spfile from pfile;

```
SQL> shut immediate;
```

Delete old spfile from ASM - optional

```
ASMCMD> cd +ASM1/CONVERTM/PARAMETERFILE
ASMCMD> ls -l
ASMCMD> rm spfile.344.1098378413
ASMCMD> ls -l
```

Delete redologs - optional

```
ASMCMD> cd +ASM1/CONVERTM
ASMCMD> ls -l
ASMCMD> rm redo03.log redo04.log
ASMCMD> ls -l
```

Post Verification - Start the Database

```
SQL> startup;

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/CONVERTM/PASSWORD

ASMCMD> pwcopy --dbuniquename CONVERTM -f
+ASM1/CONVERTM/PASSWORD/pwdconvertm.346.10983781
01 +ASM1/CONVERTM/PASSWORD/orapwCONVERTM

ASMCMD> ls -l
```

Delete old password file - optional

```
ASMCMD> rm pwdconvertm.346.1098378101
ASMCMD> ls -l
```