DataGuard 11g Keep SID Single DB Filesystem

**Step 0: Edit host file**

10.1.17.174 dataw.msb.com.vn dataw

10.0.17.174        dr-dataw.msb.com.vn dr-dataw

**Step 0.0: Select DB information**

SELECT NAME, DATABASE\_ROLE, DB\_UNIQUE\_NAME, OPEN\_MODE, LOG\_MODE, PROTECTION\_MODE, PROTECTION\_LEVEL, SWITCHOVER\_STATUS FROM V$DATABASE;

select instance\_name,status from v$instance;

show parameter unique;

select \* from v$version;

NAME         DATABASE\_ROLE DB\_UNIQUE\_NAME                 OPEN\_MODE         LOG\_MODE PROTECTION\_MODE         PROTECTION\_LEVEL SWITCHOVER\_STATUS

--------- ---------------- ------------------------------ -------------------- ------------ -------------------- -------------------- --------------------

DATAWH         PRIMARY         datawh                         READ WRITE         ARCHIVELOG MAXIMUM PERFORMANCE MAXIMUM PERFORMANCE NOT ALLOWED

SQL>

INSTANCE\_NAME         STATUS

---------------- ------------

datawh                 OPEN

SQL>

NAME                                 TYPE         VALUE

------------------------------------ ----------- ------------------------------

db\_unique\_name                         string         datawh

SQL>

BANNER

--------------------------------------------------------------------------------

Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production

column VALUE\_COL\_PLUS\_SHOW\_PARAM format a80

sho parameter spfile

sho parameter control

column REDOLOG\_FILE\_NAME format a60

SELECT a.GROUP#,a.THREAD#,a.SEQUENCE#,a.MEMBERS,a.ARCHIVED,a.STATUS,b.IS\_RECOVERY\_DEST\_FILE,b.MEMBER AS REDOLOG\_FILE\_NAME,(a.BYTES/1024/1024) AS SIZE\_MB FROM v$log a JOIN v$logfile b ON a.Group#=b.Group# ORDER BY a.GROUP# ASC;

COL mbytes HEA " MBytes " FOR 99999.999

COL tablespace\_name HEA " Tablespace " FOR a18

COL file\_name HEA " DBF Name " FOR a45

COL ts# HEA "TS#" FOR 99

SELECT ts.tablespace\_name, vts.ts#, ts.file\_name, ts.mbytes FROM v$tablespace vts,(SELECT tablespace\_name, file\_id, file\_name, ( bytes / 1048576 ) mbytes FROM sys.dba\_data\_files UNION SELECT tablespace\_name, file\_id, file\_name, ( bytes / 1048576 ) mbytes FROM sys.dba\_temp\_files) ts WHERE vts.name = ts.tablespace\_name ORDER BY ts.tablespace\_name, ts.file\_id;

NAME                                 TYPE         VALUE

------------------------------------ ----------- --------------------------------------------------------------------------------

spfile                                 string         /u01/app/oracle/product/11.2.0.3/db\_1/dbs/spfiledatawh.ora

SQL>

NAME                                 TYPE         VALUE

------------------------------------ ----------- --------------------------------------------------------------------------------

control\_file\_record\_keep\_time         integer         7

control\_files                         string         /data/datafile/control01.ctl, /data/datafile/control02.ctl

control\_management\_pack\_access         string         DIAGNOSTIC+TUNING

SQL> SQL>

GROUP# THREAD# SEQUENCE# MEMBERS ARC STATUS                 IS\_ REDOLOG\_FILE\_NAME                                                 SIZE\_MB

---------- ---------- ---------- ---------- --- ---------------- --- ------------------------------------------------------------ ----------

1         1         24917         1 YES INACTIVE         NO /data/datafile/redo1a.log                                                 50

2         1         24919         1 NO        CURRENT          NO /data/datafile/redoaa.log                                                 50

3         1         24918         1 YES INACTIVE         NO /data/datafile/redo3a.log                                                 50

SQL> SQL> SQL> SQL> SQL>

Tablespace         TS#                         DBF Name                        MBytes

------------------ --- --------------------------------------------- ----------

DWH\_TS\_DATA         18 /data/datafile/dwh\_ts\_data\_17.dbf         1024.000

DWH\_TS\_DATA         18 /data/datafile/dwh\_ts\_data\_18.dbf         1024.000

set linesize 9999

archive log list

show parameter recovery

column name format a15

select name, (space\_limit/1073741824) as "SPACE\_LIMIT (GB)", (space\_used/1073741824) as "SPACE\_USED (GB)", (SPACE\_RECLAIMABLE/1073741824) as "SPACE\_RECLAIMABLE (GB)", NUMBER\_OF\_FILES from v$recovery\_file\_dest;

SELECT \* FROM V$FLASH\_RECOVERY\_AREA\_USAGE

Database log mode         Archive Mode

Automatic archival         Enabled

Archive destination         USE\_DB\_RECOVERY\_FILE\_DEST

Oldest online log sequence 24917

Next log sequence to archive 24919

Current log sequence         24919

SQL>

NAME                                 TYPE         VALUE

------------------------------------ ----------- --------------------------------------------------------------------------------

db\_recovery\_file\_dest                 string         /data

db\_recovery\_file\_dest\_size         big integer 500G

recovery\_parallelism                 integer         0

SQL> SQL>

NAME                SPACE\_LIMIT (GB) SPACE\_USED (GB) SPACE\_RECLAIMABLE (GB) NUMBER\_OF\_FILES

--------------- ---------------- --------------- ---------------------- ---------------

/data                         500 22.9626665         10.2387609          348

SQL>

FILE\_TYPE         PERCENT\_SPACE\_USED PERCENT\_SPACE\_RECLAIMABLE NUMBER\_OF\_FILES

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CONTROL FILE                         0                         0                0

REDO LOG                         0                         0                0

ARCHIVED LOG                         2.68                  .13         340

BACKUP PIECE                         1.92                  1.92                8

IMAGE COPY                         0                         0                0

FLASHBACK LOG                         0                         0                0

FOREIGN ARCHIVED LOG                 0                         0                0

[oracle@dataw data]$ du -sh \*

496G        datafile

14G        DATAWH

[oracle@dataw DATAWH]$ du -sh \*

14G        archivelog

220M        autobackup

4.0K        backupset

**Step 1: Enable Force Logging**

select force\_logging from v$database;

FOR

-------

YES

alter database force logging;

**Step 2: Create a Password File**

ll $ORACLE\_HOME/dbs

*If a password file does not exist for the primary database, create one using the following steps:*

cd $ORACLE\_HOME/dbs

orapwd file=orapwegdbprod password=MySysPassword

**Step 3: Configure a Standby Redo Log**

select group#, thread#, bytes, members from v$log;

select group#, type, member from v$logfile order by group#, member;

select max (bytes), count (1) from v$log;

select bytes/1024/1024 as MB from v$log;

*The number of standby redo logs required for the physical standby database in this example is (3 + 1) \* 1 = 4 at 50MB each.*

alter database add standby logfile group 4 ('/data/datafile/redo4a.log') size 50M;

alter database add standby logfile group 5 ('/data/datafile/redo5a.log') size 50M;

alter database add standby logfile group 6 ('/data/datafile/redo6a.log') size 50M;

alter database add standby logfile group 7 ('/data/datafile/redo7a.log') size 50M;

**Step 4: Enable Archiving**

archive log list

SQL> show parameter recovery\_file\_dest

SQL> alter system set log\_archive\_dest\_1='LOCATION=/u02/app/oracle/oradata/orcl/arch' scope = both;

shutdown immediate

startup mount

alter database archivelog;

alter database open;

alter system switch logfile;

**Step 5: Set Primary Database Initialization Parameters**

set linesize 500 pages 0

col value for a90

col name for a30

select name, value

from v$parameter

where name in ('db\_name','db\_unique\_name','log\_archive\_config', 'log\_archive\_dest\_1','log\_archive\_dest\_2',

'log\_archive\_dest\_state\_1','log\_archive\_dest\_state\_2', 'remote\_login\_passwordfile',

'log\_archive\_format','log\_archive\_max\_processes','fal\_server','db\_file\_name\_convert',

'log\_file\_name\_convert','db\_file\_name\_convert','standby\_file\_management');

alter system set LOG\_ARCHIVE\_CONFIG='DG\_CONFIG=(datawh,datastb)' scope=both sid='\*';

alter system set LOG\_ARCHIVE\_DEST\_1='LOCATION=USE\_DB\_RECOVERY\_FILE\_DEST VALID\_FOR=(ALL\_LOGFILES,ALL\_ROLES) DB\_UNIQUE\_NAME=datawh' scope=both sid='\*';

alter system set LOG\_ARCHIVE\_DEST\_2='SERVICE=datastb async noaffirm reopen=15 VALID\_FOR=(ONLINE\_LOGFILES,PRIMARY\_ROLE) db\_unique\_name=datastb';

alter system set log\_archive\_max\_processes=30 scope=both sid='\*';

alter system set fal\_server=datastb scope=both sid='\*';

alter system set standby\_file\_management=AUTO scope=both sid='\*';

~~alter system set db\_file\_name\_convert='/egdbdr/','/egdbprod/' scope=spfile sid='\*';~~

~~alter system set log\_file\_name\_convert='/egdbdr/','/egdbprod/' scope=spfile sid='\*';~~

--alter system set LOG\_ARCHIVE\_DEST\_STATE\_2=enable scope=both sid='\*';

--alter system set log\_archive\_format='%t\_%s\_%r.arc' scope=spfile sid='\*';

--alter system set REMOTE\_LOGIN\_PASSWORDFILE=EXCLUSIVE scope=spfile sid='\*';

*db\_file\_name\_convert & log\_file\_name\_convert: need to be restarted DB to to take effect*

**Step 6: Update TNSNAMES.ora**

datawh =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = 10.1.17.174)(PORT = 1521))

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SERVICE\_NAME = datawh)

)

)

datastb =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = 10.0.17.174)(PORT = 1521))

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SERVICE\_NAME = datawh)

)

)

**Step 7: Create Pfile for Standby**

create pfile='/u01/pfiledatawh.ora' from spfile;

**Step 8: Copy the files from the primary to the standby server**

scp pfiledatawh.ora dr-dataw:/u01

scp /u01/app/oracle/product/11.2.0.3/db\_1/dbs/orapwdatawh dr-dataw:/u01/app/oracle/product/11.2.0.3/db\_1/dbs/

scp/u01/app/oracle/product/11.2.0.3/db\_1/network/admin/tnsnames.ora dr-dataw:/u01/app/oracle/product/11.2.0.3/db\_1/network/admin/

**Step 9: Modify pfile\_for\_standby**

\*.audit\_file\_dest='/u01/app/oracle/admin/datastb/adump'

\*.audit\_trail='db'

\*.compatible='11.2.0.0.0'

\*.control\_files='/data/datafile/control01.ctl','/data/datafile/control02.ctl'

\*.db\_block\_size=8192

\*.db\_domain=''

\*.db\_name='datawh'

**\*.db\_unique\_name='datastb'**

\*.db\_recovery\_file\_dest\_size=536870912000

\*.db\_recovery\_file\_dest='/data'

\*.diagnostic\_dest='/u01/app/oracle'

\*.dispatchers='(PROTOCOL=TCP) (SERVICE=datastbXDB)'

\*.fal\_server='DATAWH'

\*.log\_archive\_config='DG\_CONFIG=(datastb,datawh)'

\*.log\_archive\_dest\_1='LOCATION=USE\_DB\_RECOVERY\_FILE\_DEST VALID\_FOR=(ALL\_LOGFILES,ALL\_ROLES) DB\_UNIQUE\_NAME=datastb'

\*.log\_archive\_dest\_2='SERVICE=datawh async noaffirm reopen=15 VALID\_FOR=(ONLINE\_LOGFILES,PRIMARY\_ROLE) db\_unique\_name=datawh'

\*.log\_archive\_format='%t\_%s\_%r.dbf'

\*.log\_archive\_max\_processes=30

\*.open\_cursors=1200

\*.pga\_aggregate\_target=2G

\*.processes=400

\*.remote\_login\_passwordfile='EXCLUSIVE'

\*.sessions=800

\*.sga\_max\_size=2G

\*.sga\_target=2G

\*.standby\_file\_management='AUTO'

\*.undo\_tablespace='UNDOTBS1'

**Step 10: Create required dump file directories for the Standby Instances**

mkdir -p /u01/app/oracle/admin/datastb/

cd /u01/app/oracle/admin/datastb

mkdir adump dpdump pfile ~~xdb\_wallet~~

~~mkdir -p /data/DATASTB~~

~~cd /data/DATASTB~~

~~mkdir archivelog autobackup controlfile onlinelog~~

NOTE: OMF Diskgroup do not need to create folders for data files

**Step 11 Configure Oracle Net Components**

# netmgr

*vi /u01/app/oracle/product/11.2.0.3/db\_1/network/admin/listener.ora*

SID\_LIST\_LISTENER =

(SID\_LIST =

(SID\_DESC =

(GLOBAL\_DBNAME = datawh)

(ORACLE\_HOME = /u01/app/oracle/product/11.2.0.3/db\_1)

(SID\_NAME = datawh)

)

)

LISTENER =

(DESCRIPTION\_LIST =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = dr-dataw.msb.com.vn)(PORT = 1521))

(ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))

)

)

ADR\_BASE\_LISTENER = /u01/app/oracle

*lsnrctl reload*

*lsnrctl status*

Services Summary...

Service "datawh" has 1 instance(s).

Instance "datawh", status UNKNOWN, has 1 handler(s) for this service...

The command completed successfully

**Step 12: Create the standby database using rman**

sqlplus / as sysdba

create spfile from pfile='/u01/pfiledatawh.ora';

startup nomount

exit

ls -l $ORACLE\_HOME/dbs

rman target sys/msbsysadmin123@datawh auxiliary sys/msbsysadmin123@datastb | tee rman.log

duplicate target database for standby from active database nofilenamecheck dorecover;

vi dup.sh

rman target sys/msbsysadmin123@cdb1 auxiliary sys/msbsysadmin123@cdb1dr <<EOF

duplicate target database for standby from active database nofilenamecheck dorecover;

EOF

chmod +x dup.sh

nohup sh dup.sh > dup.log &

tail -100f dup.log

Note – since the data file names are not being changed on the standby database we need to include the NOFILENAMECHECK

From <<http://gavinsoorma.com/2013/11/creating-an-oracle-12c-data-guard-active-standby-database/>>

**Step 13: Edit and refresh listener.ora, add service name**

LISTENER =

(DESCRIPTION\_LIST =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = dr-dataw.msb.com.vn)(PORT = 1521))

(ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))

)

)

ADR\_BASE\_LISTENER = /u01/app/oracle

lsnrctl reload

lsnrctl status

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dr-dataw.msb.com.vn)(PORT=1521)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))

Services Summary...

Service "datastb" has 1 instance(s).

Instance "datawh", status READY, has 1 handler(s) for this service...

show parameter name

alter system set service\_names='datastb','datawh' scope=both;

**Step 14: Synchronize Data Guard**

recover managed standby database using current logfile disconnect;

select client\_process,process,status,sequence# from v$managed\_standby;

select \* from v$dataguard\_config;

DataGuard 11g RAC to RAC

**Step 0: Edit host file**

# Public

10.0.18.190 vas1

10.0.18.192 vas2

# Virtual

10.0.18.191 vas1-vip

10.0.18.193 vas2-vip

# Private

192.168.1.1 vas1-priv1

192.168.2.1 vas1-priv2

192.168.1.2 vas2-priv1

192.168.2.2 vas2-priv2

# SCAN

10.0.18.194 vas-scan

# BACKUP

10.0.18.197                                bksrv

10.0.18.198                                bkgui

10.0.18.160 vas3

10.0.18.162 vas4

10.0.18.164 vasdr-scan

10.0.18.190 vas1

10.0.18.192 vas2

10.0.18.194 vas-scan

**Step 1: Enable Force Logging**

select force\_logging from v$database;

FOR

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YES

alter database force logging;

**Step 2: Modify Dataguard related init Parameters:**

show parameter db\_name

show parameter db\_unique\_name

set linesize 500 pages 0

col value for a90

col name for a30

select name, value

from v$parameter

where name in ('db\_name','db\_unique\_name','log\_archive\_config', 'log\_archive\_dest\_1','log\_archive\_dest\_2',

'log\_archive\_dest\_state\_1','log\_archive\_dest\_state\_2', 'remote\_login\_passwordfile',

'log\_archive\_format','log\_archive\_max\_processes','fal\_server','db\_file\_name\_convert',

'log\_file\_name\_convert','db\_file\_name\_convert','standby\_file\_management');

select name, value

from v$parameter

where name in ('db\_name','db\_unique\_name','log\_archive\_config', 'log\_archive\_dest\_1','log\_archive\_dest\_2','log\_archive\_dest\_3','log\_archive\_dest\_state\_1','log\_archive\_dest\_state\_2', 'log\_archive\_dest\_state\_3', 'remote\_login\_passwordfile',

'log\_archive\_format','log\_archive\_max\_processes','fal\_server','db\_file\_name\_convert',

'log\_file\_name\_convert', 'standby\_file\_management');

alter system set LOG\_ARCHIVE\_CONFIG='DG\_CONFIG=(vas,vasdr)' scope=both sid='\*';

alter system set LOG\_ARCHIVE\_DEST\_1='LOCATION=USE\_DB\_RECOVERY\_FILE\_DEST VALID\_FOR=(ALL\_LOGFILES,ALL\_ROLES) DB\_UNIQUE\_NAME=vas' scope=both sid='\*';

alter system set LOG\_ARCHIVE\_DEST\_2='SERVICE=vasdr LGWR ASYNC NOAFFIRM delay=0 optional compression=disable max\_failure=0 max\_connections=1 reopen=300 db\_unique\_name=vasdr net\_timeout=30 valid\_for=(online\_logfiles,primary\_role)';

--alter system set LOG\_ARCHIVE\_DEST\_STATE\_2=enable scope=both sid='\*';

--alter system set log\_archive\_format='%t\_%s\_%r.arc' scope=spfile sid='\*';

--alter system set REMOTE\_LOGIN\_PASSWORDFILE=EXCLUSIVE scope=spfile sid='\*';

alter system set log\_archive\_max\_processes=30 scope=both sid='\*';

alter system set fal\_server=vasdr scope=both sid='\*';

alter system set db\_file\_name\_convert='vasdr','vas' scope=spfile sid='\*';

alter system set log\_file\_name\_convert='vasdr','vas' scope=spfile sid='\*';

alter system set standby\_file\_management=AUTO scope=both sid='\*';

**Step 3: Enable Archivelog Mode**

select log\_mode from v$database;

LOG\_MODE

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ARCHIVELOG

srvctl stop database -d vas

startup mount (only one instance)

alter database archivelog

alter database open

srvctl start database -d vas <--- This will start the remaining Instances on the cluster

**Step 3**: **Create the Standby Redo Logs (SRLs) on Primary and Standby**

select group#, thread#, bytes, members from v$log;

select group#, type, member from v$logfile order by group#, member;

select max (bytes), count (1) from v$log;

select bytes/1024/1024 as MB from v$log;

*The number of standby redo logs required for the physical standby database in this example is (3 + 1) \* 1 = 4 at 50MB each.*

alter database add standby logfile thread 1 group 5 ('+REDO','+FRA') size 50M;

alter database add standby logfile thread 1 group 6 ('+REDO','+FRA') size 50M;

alter database add standby logfile thread 1 group 7 ('+REDO','+FRA') size 50M;

alter database add standby logfile thread 2 group 8 ('+REDO','+FRA') size 50M;

alter database add standby logfile thread 2 group 9 ('+REDO','+FRA') size 50M;

alter database add standby logfile thread 2 group 10 ('+REDO','+FRA') size 50M;

**Step 4: Update TNSNAMES.ora**

vi $ORACLE\_HOME/network/admin/tnsnames.ora

vi /u01/app/database/11.2.0/db\_1/network/admin/tnsnames.ora

VAS =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = vas-scan)(PORT = 1521))

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SERVICE\_NAME = vas)

)

)

VASDR =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = vasdr-scan)(PORT = 1521))

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SERVICE\_NAME = vasdr)

)

)

**Step 5: Backup The Primary Database For Standby**

mkdir -p /u01/app/database/admin/vasdr/adump

cd +DATA

mkdir vasdr

cd vasdr

mkdir DATAFILE PARAMETERFILE TEMPFILE

cd +FRA

mkdir vasdr

cd vasdr

mkdir ARCHIVELOG AUTOBACKUP BACKUPSET CONTROLFILE ONLINELOG

cd +REDO

mkdir vasdr

cd vasdr

mkdir CONTROLFILE ONLINELOG

mkdir -p /u01/bk

chmod -R 777 /u01/bk/

rman target /

shutdown immediate

startup mount

*configure controlfile autobackup on;*

*configure controlfile autobackup format for device type disk to '/u01/bk/ctl\_%F';*

run {

sql 'alter system archive log current';

allocate channel ch1 type disk format '/u01/bk/%d\_%T\_%s.bks';

backup database plus archivelog tag='full\_bk';

}

mkdir -p /u01/bk

chown -R oracle:oinstall /u01/bk

run

{

sql "alter system switch logfile";

allocate channel ch1 type disk format '/u01/bk/Primary\_bkp\_for\_stndby\_%U';

allocate channel ch2 type disk format '/u01/bk/Primary\_bkp\_for\_stndby\_%U';

allocate channel ch3 type disk format '/u01/bk/Primary\_bkp\_for\_stndby\_%U';

allocate channel ch4 type disk format '/u01/bk/Primary\_bkp\_for\_stndby\_%U';

backup database;

backup current controlfile for standby;

sql "alter system archive log current";

release channel ch1;

release channel ch2;

release channel ch3;

release channel ch4;

}

**Step 6: Create Pfile and Controlfile for Standby**

create pfile='/u01/bk/pfile\_stby.ora' from spfile;

ALTER DATABASE CREATE STANDBY CONTROLFILE AS '/u01/bk/ctl\_stby.ctl';

Amend the PFILE

\*.db\_unique\_name='DB11G\_STBY'

\*.fal\_server='DB11G'

\*.log\_archive\_dest\_2='SERVICE=db11g ASYNC VALID\_FOR=(ONLINE\_LOGFILES,PRIMARY\_ROLE) DB\_UNIQUE\_NAME=DB11G'

**Step 6: Copy the files from the primary to the standby server**

scp /u01/bk/\* vas3:/u01/bk

scp /u01/app/11.2.0/grid/network/admin/listener.ora vas3:/u01/bk

scp /u01/app/11.2.0/grid/network/admin/sqlnet.ora vas3:/u01/bk

scp /u01/app/database/11.2.0/db\_1/network/admin/tnsnames.ora vas3:/u01/bk

scp /u01/app/database/11.2.0/db\_1/dbs/orapwvas1 vas3:/u01/bk

scp /u01/app/database/11.2.0/db\_1/network/admin/tnsnames.ora vas3:/u01/app/database/11.2.0/db\_1/network/admin/tnsnames.ora

scp /u01/app/database/11.2.0/db\_1/network/admin/tnsnames.ora vas4:/u01/app/database/11.2.0/db\_1/network/admin/tnsnames.ora

scp /u01/app/database/11.2.0/db\_1/dbs/orapwvas1 vas3:/u01/app/database/11.2.0/db\_1/dbs/orapwvasdr1

scp /u01/app/database/11.2.0/db\_1/dbs/orapwvas1 vas4:/u01/app/database/11.2.0/db\_1/dbs/orapwvasdr2

chown -R oracle:oinstall /u01/app/database/11.2.0/db\_1/network/admin

chown -R oracle:oinstall /u01/app/database/11.2.0/db\_1/dbs

**Step 6: Create required dump file directories for the Standby Instances**

mkdir -p /u01/app/database/admin/vas/adump

chown -R oracle:oinstall /u01/app/database/admin/

mkdir -p /u01/app/oracle/diag/rdbms/vas/vas1

cd /u01/app/oracle/diag/rdbms/vas/vas1

mkdir trace cdump

chown -R oracle:oinstall /u01/app/oracle/

mkdir -p /u01/app/database/admin/vas/adump

chown -R oracle:oinstall /u01/app/database/admin/

mkdir -p /u01/app/oracle/diag/rdbms/vas/vas2

cd /u01/app/oracle/diag/rdbms/vas/vas2

mkdir trace cdump

chown -R oracle:oinstall /u01/app/oracle/

**Step 6: Modify pfile\_for\_standby**

\*.audit\_file\_dest='/u01/app/database/admin/vas/adump'

\*.audit\_trail='db'

\*.cluster\_database=true

\*.compatible='11.2.0.0.0'

\*.control\_files='+DATA/india/controlfile/control01.ctl','+FRA/india/controlfile/control02.ctl'

\*.db\_block\_size=8192

\*.db\_create\_file\_dest='+DATA'

\*.db\_create\_online\_log\_dest\_1='+DATA'

\*.db\_create\_online\_log\_dest\_2='+FRA'

\*.db\_domain='hingu.net'

**\*.db\_file\_name\_convert='vas','vasdr'**

\*.db\_name='vas'

\*.db\_recovery\_file\_dest='+FRA'

\*.db\_recovery\_file\_dest\_size=4039114752

**\*.db\_unique\_name='vasdr'**

\*.diagnostic\_dest='/u01/app/oracle'

\*.dispatchers='(PROTOCOL=TCP) (SERVICE=vasXDB)'

**\*.fal\_server='VAS'**

bhavin1.instance\_number=1

bhavin2.instance\_number=2

bhavin1.local\_listener='LISTENER\_BHAVIN1'

bhavin2.local\_listener='LISTENER\_BHAVIN2'

**\*.log\_archive\_config='DG\_CONFIG=(vasdr,vas)'**

**\*.log\_archive\_dest\_1='LOCATION=USE\_DB\_RECOVERY\_FILE\_DEST VALID\_FOR=(ALL\_LOGFILES,ALL\_ROLES) DB\_UNIQUE\_NAME=vasdr'**

**\*.log\_archive\_dest\_2='SERVICE=vas ARCH VALID\_FOR=(ONLINE\_LOGFILES,PRIMARY\_ROLE) DB\_UNIQUE\_NAME=vas'**

\*.log\_archive\_format='%t\_%s\_%r.arc'

\*.log\_archive\_max\_processes=8

**\*.log\_file\_name\_convert='vas','vasdr'**

\*.memory\_target=1484783616

\*.open\_cursors=300

\*.processes=1024

**\*.remote\_listener='vasdr-scan:1525'**

\*.remote\_login\_passwordfile='exclusive'

**\*.service\_names='INDIA','india.hingu.net'**

\*.sessions=1131

\*.standby\_file\_management='AUTO'

bhavin2.thread=2

bhavin1.thread=1

bhavin1.undo\_tablespace='UNDOTBS1'

bhavin2.undo\_tablespace='UNDOTBS2'

**Step 6: Restore Backup**

chmod -R 777 bk/

sqlplus / as sysdba

CREATE SPFILE FROM PFILE='/u01/bk/pfile\_stby.ora';

rman target /

set dbid=2685771755

restore controlfile from '/u01/bk/ctl\_stby.ctl';

alter database mount;

list backup;

restore database;

shutdown immediate

**Step 7: Modify tnsnames.ora on Standby**

cp /u01/bk/tnsnames.ora /u01/app/database/11.2.0/db\_1/network/admin/

vi /u01/app/database/11.2.0/db\_1/network/admin/tnsnames.ora

VAS =

(DESCRIPTION=

(LOAD\_BALANCE=yes)

(ADDRESS = (PROTOCOL = TCP)(HOST = vas-scan)(PORT = 1521))

(CONNECT\_DATA=

(FAILOVER\_MODE=

(TYPE=select)

(METHOD=basic)

)

(SERVER=dedicated)

(SERVICE\_NAME=vas)

)

)

VASDR =

(DESCRIPTION=

(LOAD\_BALANCE=yes)

(ADDRESS = (PROTOCOL = TCP)(HOST = vasdr-scan)(PORT = 1521))

(CONNECT\_DATA=

(FAILOVER\_MODE=

(TYPE=select)

(METHOD=basic)

)

(SERVER=dedicated)

(SERVICE\_NAME=vasdr)

)

)

tnsping vas

tnsping vasdr

**Step 7: Mount standby DB**

sqlplus / as sysdba

startup nomount

alter database mount standby database;

**Step 8: Create Standby Using DUPLICATE**

sqlplus / as sysdba

STARTUP NOMOUNT PFILE='/u01/bk/pfile\_stby.ora';

rman target sys/oracle auxiliary /

rman target sys/oracle auxiliary sys/oracle

Step By Step of Configuring Oracle 11gR2 (11.2.0.1) RAC to RAC Dataguard:

From <<http://www.oracledba.org/11gR2/dr/11gR2_dataguard_RAC_to_RAC.html>>

**Data Guard Physical Standby Setup in Oracle Database 11g Release 2**

From <<http://oracle-base.com/articles/11g/data-guard-setup-11gr2.php>>

[**Technical Architecture of 11g R2 RAC primary to RAC standby Data Guard Configuration:**](https://www.blogger.com/blogger.g?blogID=8278461957410667603)

From <<http://hmhamid.blogspot.com/2013/12/11gr2-rac-rac-data-guard.html>>

RAC Data Guard setup and management with Oracle 11gR2 (11.2

From <<http://gjilevski.com/2010/12/24/rac-data-guard-setup-and-management-with-oracle-11gr2-11-2-0-2/>>

**Step by Step Build of Standby (dataguard) in two node RAC**

From <<http://oracle-info.com/2014/11/20/step-by-step-build-of-standby-dataguard-in-two-node-rac/>>

**Snapshot Standby Databases**

From <<http://satya-dba.blogspot.com/2012/06/snapshot-standby-databases-oracle.html>>

DataGuard 12c

**Data Guard Physical Standby setup in 12c**

From <<http://oracle12cexplorer.blogspot.com/2015/03/data-guard-physical-standby-setup-in-12c.html>>

**Creating an Oracle 12c Data Guard Active Standby Database**

This note examines how to create an Oracle 12.1.0 physical standby Active Data Guard database using the RMAN DUPLICATE FROM ACTIVE command.

We will be creating the data guard configuration in a 12c Container Database.

Remember – ***in 12c Data Guard is set up at the Container level and not the individual Pluggable database level***as the redo log files only belong to the Container database and the individual pluggable databases do not have their own online redo log files.

In my next post we will examine how to unplug a pluggable database from a Container database not having Data Guard set up and how easy it is to provide high availability for a pluggable database by just plugging it into a container database which has Data Guard configured.

From <<http://gavinsoorma.com/2013/11/creating-an-oracle-12c-data-guard-active-standby-database/>>

**Setting up Oracle 12c Active Data Guard Database**

In the Multitenant world, the PDB Database is considered an independent database but the **operational tasks performed at the CDB level effect all the PDB databases plugged into it. The task of setting up of a Data Guard, switching or failing over are all performed at the CDB level**. When the Data Guard is initially setup, with the CDB database, all PDB’s are also replicated to the target. Similarly when a failover or switchover is performed all the PDBs also change role along with the CDB container. This greatly eases the management of the PDB databases.

From <<http://www.vitalsofttech.com/oracle-12c-active-data-guard-database/>>

**Step 0: Set Up the Environment to Support the Standby Database**

**Step 0.1: Edit host file**

10.1.17.246 citaddb\_srv

10.1.17.57 dbcenter2

**Step 0.2: Select DB information**

SELECT name, open\_mode, log\_mode FROM V$DATABASE;

select instance\_name,status from v$instance;

show parameters unique

select name from v$datafile;

show parameter audit\_file\_dest

**Step 0.3: Edit .bash\_profile**

SELECT name, open\_mode, log\_mode FROM V$DATABASE;

ORACLE\_BASE=/u01/app/database

ORACLE\_HOME=/u01/app/database/12.1.0.2/db\_1

ORACLE\_SID=cdb1

LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib

export ORACLE\_BASE ORACLE\_HOME ORACLE\_SID LD\_LIBRARY\_PATH

PATH=/usr/kerberos/bin:/usr/local/bin:/bin:/usr/bin:/sbin/:/home/oracle/bin:$ORACLE\_HOME/bin:$ORACLE\_HOME/OPatch

export PATH

PS1="oracle.cdb1@`hostname`: "

export PS1

**Step 1: Enable Force Logging**

select force\_logging from v$database;

FOR

-------

YES

alter database force logging;

**Step 2: Create a Password File**

*If a password file does not exist for the primary database, create one using the following steps:*

ls -l $ORACLE\_HOME/dbs

orapwd file=orapwegdbprod password=MySysPassword

**Step 3: Configure a Standby Redo Log**

select group#, thread#, bytes, members from v$log;

select group#, type, member from v$logfile order by group#, member;

select max (bytes), count (1) from v$log;

select bytes/1024/1024 as MB from v$log;

*The number of standby redo logs required for the physical standby database in this example is (3 + 1) \* 1 = 4 at 50MB each.*

alter database add standby logfile group 4 '+DATA' size 50m;

alter database add standby logfile group 5 '+DATA' size 50m;

alter database add standby logfile group 6 '+DATA' size 50m;

alter database add standby logfile group 7 '+DATA' size 50m;

**Step 4: Enable Archiving**

SQL> archive log list

SQL> show parameter recovery\_file\_dest

SQL> Alter system set db\_recovery\_file\_dest=‘/u01/app/oracle/oradata/fra’ scope=spfile;

SQL> Alter system set db\_recovery\_file\_dest\_size=10g scope=spfile ;

shutdown immediate

startup mount

alter database archivelog;

alter database open;

alter system switch logfile;

**Step 5: Set Primary Database Initialization Parameters**

set linesize 500 pages 0

col value for a100

col name for a30

select name, value

from v$parameter

where name in ('db\_name','db\_unique\_name','log\_archive\_config', 'log\_archive\_dest\_1','log\_archive\_dest\_2',

'log\_archive\_dest\_state\_1','log\_archive\_dest\_state\_2', 'remote\_login\_passwordfile',

'log\_archive\_format','log\_archive\_max\_processes','fal\_server','db\_file\_name\_convert',

'log\_file\_name\_convert','db\_file\_name\_convert','standby\_file\_management');

alter system set LOG\_ARCHIVE\_CONFIG='DG\_CONFIG=(cdb1,cdb1dr)' scope=both sid='\*';

alter system set LOG\_ARCHIVE\_DEST\_1='location=USE\_DB\_RECOVERY\_FILE\_DEST valid\_for=(all\_logfiles,all\_roles) db\_unique\_name=cdb1' scope=both sid='\*';

alter system set LOG\_ARCHIVE\_DEST\_2='SERVICE=cdb1dr async noaffirm reopen=15 valid\_for=(all\_logfiles,primary\_role) db\_unique\_name=cdb1dr';

alter system set log\_archive\_max\_processes=30 scope=both sid='\*';

alter system set fal\_server=cdb1dr scope=both sid='\*';

alter system set standby\_file\_management=AUTO scope=both sid='\*';

~~alter system set db\_file\_name\_convert='cdb1dr','cdb1' scope=spfile sid='\*';~~

~~alter system set log\_file\_name\_convert='cdb1dr','cdb1' scope=spfile sid='\*';~~

15 LOG\_ARCHIVE\_DEST\_n Parameter Attributes

From <<https://docs.oracle.com/cd/B28359_01/server.111/b28294/log_arch_dest_param.htm>>

--alter system set LOG\_ARCHIVE\_DEST\_STATE\_2=enable scope=both sid='\*';

--alter system set log\_archive\_format='%t\_%s\_%r.arc' scope=spfile sid='\*';

--alter system set REMOTE\_LOGIN\_PASSWORDFILE=EXCLUSIVE scope=spfile sid='\*';

*db\_file\_name\_convert & log\_file\_name\_convert: need to be restarted DB to to take effect*

**Step 6: Update TNSNAMES.ora**

vi /u01/app/database/12.1.0.2/db\_1/network/admin/tnsnames.ora

CDB1DR =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = dr-smsdb)(PORT = 1521))

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SERVICE\_NAME = cdb1)

)

)

**Step 7: Create Pfile for Standby**

create pfile='/u01/pfilecdb2dr.ora' from spfile;

**Step 8: Copy the files from the primary to the standby server**

scp pfilecdb1dr.ora dr-smsdb:/u01/

scp /u01/app/database/12.1.0.2/db\_1/dbs/orapwcdb1 dr-smsdb:/u01/app/database/12.1.0.2/db\_1/dbs/

scp /u01/app/database/12.1.0.2/db\_1/network/admin/tnsnames.ora dr-smsdb:/u01/app/database/12.1.0.2/db\_1/network/admin/

**Step 9: Modify pfile\_for\_standby**

cdb1dr.\_\_data\_transfer\_cache\_size=0

cdb1dr.\_\_db\_cache\_size=251658240

cdb1dr.\_\_java\_pool\_size=33554432

cdb1dr.\_\_large\_pool\_size=905969664

cdb1dr.\_\_oracle\_base='/u01/app/database'#ORACLE\_BASE set from environment

cdb1dr.\_\_pga\_aggregate\_target=1073741824

cdb1dr.\_\_sga\_target=3221225472

cdb1dr.\_\_shared\_io\_pool\_size=83886080

cdb1dr.\_\_shared\_pool\_size=1912602624

cdb1dr.\_\_streams\_pool\_size=16777216

\*.audit\_file\_dest='/u01/app/database/admin/cdb1dr/adump'

\*.audit\_trail='db'

\*.compatible='12.1.0.2.0'

\*.control\_files='+DATA','/arch/CDB1DR/controlfile/o1\_mf\_c4rtdfdj\_.ctl'

\*.db\_block\_size=8192

\*.db\_create\_file\_dest='+DATA'

\*.db\_domain=''

~~\*.db\_file\_name\_convert='cdb1','cdb1dr'~~

\*.db\_name='cdb1'

\*.db\_unique\_name='cdb1dr'

\*.db\_recovery\_file\_dest='/arch'

\*.db\_recovery\_file\_dest\_size=21474836480

\*.diagnostic\_dest='/u01/app/database'

\*.dispatchers='(PROTOCOL=TCP) (SERVICE=cdb1XDB)'

\*.enable\_pluggable\_database=true

\*.fal\_server='CDB1'

\*.job\_queue\_processes=0

~~\*.local\_listener='LISTENER\_CDB1'~~

\*.log\_archive\_config='DG\_CONFIG=(cdb1,cdb1dr)'

\*.log\_archive\_dest\_1='location=USE\_DB\_RECOVERY\_FILE\_DEST valid\_for=(all\_logfiles,all\_roles) db\_unique\_name=cdb1dr'

\*.log\_archive\_dest\_2='SERVICE=cdb1 LGWR ASYNC NOAFFIRM VALID\_FOR=(all\_logfiles,primary\_role) db\_unique\_name=cdb1'

\*.log\_archive\_max\_processes=30

~~\*.log\_file\_name\_convert='cdb1','cdb1dr'~~

\*.open\_cursors=300

\*.pga\_aggregate\_target=1g

\*.processes=1500

\*.remote\_login\_passwordfile='EXCLUSIVE'

\*.sga\_target=3g

\*.standby\_file\_management='AUTO'

**~~\*.service\_names='cdb1'~~**

\*.undo\_tablespace='UNDOTBS1'

**Step 10: Create required dump file directories for the Standby Instances**

mkdir -p /u01/app/database/admin/cdb1dr/

cd /u01/app/database/admin/cdb1dr/

mkdir adump dpdump pfile xdb\_wallet

~~mkdir -p /arch/CDB1DR~~

~~cd /arch/CDB1DR~~

~~mkdir archivelog autobackup controlfile onlinelog~~

NOTE: OMF Diskgroup do not need to create folders for data files

**Step 11 Configure Oracle Net Components**

# netmgr

*vi*  /u01/app/oracle/product/12.1.0/grid/network/admin/listener.ora

SID\_LIST\_LISTENER =

(SID\_LIST =

(SID\_DESC =

(GLOBAL\_DBNAME = cdb1)

(ORACLE\_HOME = /u01/app/database/12.1.0.2/db\_1)

(SID\_NAME = cdb1)

)

(SID\_DESC =

(GLOBAL\_DBNAME = cdb4)

(ORACLE\_HOME = /u01/app/database/12.1.0.2/db\_1)

(SID\_NAME = cdb4)

)

)

LISTENER =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = dr-smsdb)(PORT = 1521))

)

ADR\_BASE\_LISTENER = /u01/app/database

*lsnrctl reload*

*lsnrctl status*

Services Summary...

Service "+ASM" has 1 instance(s).

Instance "+ASM", status READY, has 1 handler(s) for this service...

Service "cdb1dr" has 2 instance(s).

Instance "cdb1dr", status UNKNOWN, has 1 handler(s) for this service...

Instance "cdb1dr", status READY, has 1 handler(s) for this service...

Service "cdb1drXDB" has 1 instance(s).

Instance "cdb1dr", status READY, has 1 handler(s) for this service...

Service "cdb4dr" has 1 instance(s).

Instance "cdb4dr", status UNKNOWN, has 1 handler(s) for this service...

Service "smsdbpro" has 1 instance(s).

Instance "cdb1dr", status READY, has 1 handler(s) for this service...

The command completed successfully

**Step 12: Create the standby database using rman**

sqlplus / as sysdba

create spfile from pfile='/u01/pfilecdb1dr.ora';

startup nomount

exit

ls -l $ORACLE\_HOME/dbs

rman target sys/msbsysadmin123@cdb1 auxiliary sys/msbsysadmin123@cdb1dr | tee rman.log

duplicate target database for standby from active database nofilenamecheck dorecover;

vi dup.sh

rman target sys/msbsysadmin123@cdb1 auxiliary sys/msbsysadmin123@cdb1dr <<EOF

duplicate target database for standby from active database nofilenamecheck dorecover;

EOF

chmod +x dup.sh

nohup sh dup.sh > dup.log &

tail -100f dup.log

Note – since the data file names are not being changed on the standby database we need to include the NOFILENAMECHECK

From <<http://gavinsoorma.com/2013/11/creating-an-oracle-12c-data-guard-active-standby-database/>>

**Step 13: Edit and refresh listener.ora, add service name**

LISTENER =

(DESCRIPTION\_LIST =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = dr-dataw.msb.com.vn)(PORT = 1521))

(ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))

)

)

ADR\_BASE\_LISTENER = /u01/app/oracle

lsnrctl reload

lsnrctl status

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dr-dataw.msb.com.vn)(PORT=1521)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))

Services Summary...

Service "datastb" has 1 instance(s).

Instance "datawh", status READY, has 1 handler(s) for this service...

show parameter name

alter system set service\_names='datastb','datawh' scope=both;

**Step 14: Synchronize Data Guard**

recover managed standby database using current logfile disconnect;

select client\_process,process,status,sequence# from v$managed\_standby;

select \* from v$dataguard\_config;

**Step 15: Active Data Guard**

alter database open;

alter pluggable database SMSDBPRO open read only;

Duplicate a Database

**Step 0: Set Up the Environment to Support the Standby Database**

**Step 0.1: Edit host file**

10.1.17.246 citaddb\_srv

10.1.17.57 dbcenter2

**Step 0.2: Select DB information**

SELECT name, open\_mode, log\_mode FROM V$DATABASE;

select instance\_name,status from v$instance;

show parameters unique

select name from v$datafile;

show parameter audit\_file\_dest

**Step 0.3: Edit .bash\_profile**

SELECT name, open\_mode, log\_mode FROM V$DATABASE;

ORACLE\_BASE=/u01/app/database

ORACLE\_HOME=/u01/app/database/12.1.0.2/db\_1

ORACLE\_SID=cdb1

LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib

export ORACLE\_BASE ORACLE\_HOME ORACLE\_SID LD\_LIBRARY\_PATH

PATH=/usr/kerberos/bin:/usr/local/bin:/bin:/usr/bin:/sbin/:/home/oracle/bin:$ORACLE\_HOME/bin:$ORACLE\_HOME/OPatch

export PATH

PS1="oracle.cdb1@`hostname`: "

export PS1

**Step 1: Enable Force Logging**

select force\_logging from v$database;

FOR

-------

YES

alter database force logging;

**Step 4: Enable Archiving**

TARGET must be in archivelog mode

SQL> archive log list

SQL> show parameter recovery\_file\_dest

SQL> Alter system set db\_recovery\_file\_dest=‘/u01/app/oracle/oradata/fra’ scope=spfile;

SQL> Alter system set db\_recovery\_file\_dest\_size=10g scope=spfile ;

shutdown immediate

startup mount

alter database archivelog;

alter database open;

alter system switch logfile;

**Step 6: Update TNSNAMES.ora**

vi /u01/app/oracle/product/11.2.0/db\_1/network/admin/tnsnames.ora

CARDUAT =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = 10.1.66.29)(PORT = 1521))

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SERVICE\_NAME = carduat)

(UR = A)

)

)

**Step 7: Create Pfile for Standby**

create pfile='/u01/pfilecdb2dr.ora' from spfile;

**Step 8: Copy the files from the primary to the standby server**

scp pfilecdb1dr.ora dr-smsdb:/u01/

scp /u01/app/database/12.1.0.2/db\_1/dbs/orapwcdb1 dr-smsdb:/u01/app/database/12.1.0.2/db\_1/dbs/

scp /u01/app/database/12.1.0.2/db\_1/network/admin/tnsnames.ora dr-smsdb:/u01/app/database/12.1.0.2/db\_1/network/admin/

**Step 9: Modify pfile\_for\_standby**

\*.audit\_file\_dest='/u01/app/oracle/admin/cardmigrate/adump'

\*.audit\_trail='db'

\*.compatible='11.2.0.0.0'

\*.control\_files='/carddata/datafile/control.ctl'

\*.db\_block\_size=8192

\*.db\_cache\_size=136314880

\*.db\_domain=''

\*.db\_name='CARDTEST' (same as TARGET)

\*.db\_unique\_name='carduat'

\*.db\_file\_name\_convert='/cardmigrate/','/carduat/'

\*.log\_file\_name\_convert='/cardmigrate/','/carduat/'

\*.diagnostic\_dest='/u01/app/oracle'

\*.dispatchers='(PROTOCOL=TCP) (SERVICE=CARDMIGRATEXDB)'

\*.java\_pool\_size=209715200

\*.large\_pool\_size=20971520

\*.nls\_length\_semantics='CHAR'

\*.open\_cursors=300

\*.pga\_aggregate\_target=524288000

\*.processes=150

\*.remote\_login\_passwordfile='EXCLUSIVE'

\*.sga\_max\_size=2G

\*.sga\_target=2G

\*.shared\_pool\_size=167772160

\*.undo\_tablespace='UNDOTBS1'

**Step 10: Create required dump file directories for the Standby Instances**

mkdir -p /u01/app/oracle/admin/cardmigrate/adump'

NOTE: OMF Diskgroup do not need to create folders for data files

**Step 11 Configure Oracle Net Components**

# netmgr

*vi*  /u01/app/oracle/product/11.2.0/db\_1/network/admin/listener.ora

SID\_LIST\_LISTENER =

(SID\_LIST =

(SID\_DESC =

(GLOBAL\_DBNAME = carduat)

(ORACLE\_HOME = /u01/app/oracle/product/11.2.0/db\_1)

(SID\_NAME = carduat)

)

)

LISTENER =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = cardtest.msb.com.vn)(PORT = 1521))

)

ADR\_BASE\_LISTENER = /u01/app/oracle

*lsnrctl reload*

*lsnrctl status*

**Step 12: Create the standby database using rman**

sqlplus / as sysdba

create spfile from pfile='/u01/pfilecdb1dr.ora';

startup nomount

exit

ls -l $ORACLE\_HOME/dbs

rman target sys/msbsysadmin123@cdb1 auxiliary sys/msbsysadmin123@cdb1dr | tee rman.log

duplicate target database for standby from active database nofilenamecheck dorecover;

vi dup.sh

rman target sys/msbsysadmin123@cdb1 auxiliary sys/msbsysadmin123@cdb1dr <<EOF

DUPLICATE DATABASE TO CARDTEST FROM ACTIVE DATABASE NOFILENAMECHECK;

EOF

chmod +x dup.sh

nohup sh dup.sh > dup.log &

tail -100f dup.log

DUPLICATE DATABASE TO DB11G FROM ACTIVE DATABASE SPFILE NOFILENAMECHECK;

From <<https://oracle-base.com/articles/11g/duplicate-database-using-rman-11gr2>>