CONFIGURATION OF PHYSICAL STANDBY

0.Install oracle binaries in standby

1.Do pre req changes in primary

2.Configure tns entry on both and check the connectivity

3.Move Pfile and password file to standby

4.Take standby control file backup from primary

5.Take full database backup and move both backup to standby

6.Startup nomout in standby using altered pfile

7.Restore standby control file to standby and bring to mount

8.Start the full database restore if the datafile location are diff keep filenameconvert

9.Start Recover or recover using service of primary database

10. Start MRP and check few parameters in standby

11.Check the syn status and check alert log

PRIMARY-----------------------

START THE RMAN BACKUP

run {

allocate channel ch1 device type disk format '/u02/rman/backup/full\_%U';

BACKUP AS COMPRESSED BACKUPSET DATABASE PLUS ARCHIVELOG;

backup current controlfile for standby format '/u02/rman/backup/stdb\_control.bkp';

}

\*\*\*\*\*\*\*\*\*MOVE THE BACKUP TO TARGET STANDBY\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PRE REQUIS-------------------------------------------------------------------------

Step1:-Change Archivelog mode and force logging mode

SQL> startup mount

SQL> alter database archivelog;

Database altered.

SQL> ALTER DATABASE FORCE LOGGING;

SQL> select FORCE\_LOGGING,log\_mode from v$database;

Step2:-Adding Redologfile for standby database

SQL> alter database add standby logfile group 4 ‘/u01/app/oracle/oradata/CHENNAI/redo04.log’ size 50m;

Database altered.

SQL> alter database add standby logfile group 5 ‘/u01/app/oracle/oradata/CHENNAI/redo05.log’ size 50m;

Database altered.

SQL> alter database add standby logfile group 6 ‘/u01/app/oracle/oradata/CHENNAI/redo06.log’ size 50m;

Database altered.

SQL> SELECT GROUP#,THREAD#,SEQUENCE#,ARCHIVED,STATUS FROM V$STANDBY\_LOG;

GROUP# THREAD# SEQUENCE# ARC STATUS

———- ———- ———- — ———-

4 0 0 YES UNASSIGNED

5 0 0 YES UNASSIGNED

6 0 0 YES UNASSIGNED

Step3:-Adding the network entry in primary and standby side(Both servers)

Tnsnames entry:-

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

tnsping FCUBS144STD

tnsping FCUBS144CDB

In Standby Listener:--------EXamPle\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

LISTENER =

(DESCRIPTION\_LIST =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = PRIUATINTDBDR01)(PORT = 1521))

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

)

)

SID\_LIST\_LISTENER =

(SID\_LIST =

(SID\_DESC =

(ORACLE\_HOME = /u01/app/oracle/product/19.6/db\_home1)

(SID\_NAME = FCUBS144STD)

)

)

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

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

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step4:-Changing parameters in primary database

SQL> ALTER SYSTEM SET log\_archive\_config='dg\_config=(FCUBS144CDB, FCUBS144STD)' SCOPE=both;

System altered.

SQL> ALTER SYSTEM SET log\_archive\_dest\_1='location=use\_db\_recovery\_file\_dest valid\_for=(all\_logfiles,all\_roles) db\_unique\_name=chennai’ SCOPE=both;

System altered.

SQL> ALTER SYSTEM SET log\_archive\_dest\_2='service=FCUBS144STD async valid\_for=(online\_logfiles,primary\_role) db\_unique\_name=FCUBS144STD’ SCOPE=both;

System altered.

SQL> ALTER SYSTEM SET fal\_server='DELHI' SCOPE=both;

System altered.

SQL> ALTER SYSTEM SET fal\_client='CHENNAI' SCOPE=both;

System altered.

SQL> ALTER SYSTEM SET standby\_file\_management='AUTO' SCOPE=both;

System altered.

Step5:- Password file creation:------------------------------------------------------------------------------------

orapwd file=orapwFCUBS1442 password=oracle123 force=y format=12

scp orapwFCUBS1442 orale@

scp pfile oracle@STANDBYSERVER

\*\*\*\*\*\*\*\*\*EDIT THE PFILE (change uniq name, log\_file\_name\_convert[if req], control\_files location, .db\_recovery\_file\_dest, instance\_name, standby\_file\_management='auto')

The pfile which used given below////

FCUBS144STD.\_\_data\_transfer\_cache\_size=0

FCUBS144STD.\_\_db\_cache\_size=34762391552

FCUBS144STD.\_\_inmemory\_ext\_roarea=0

FCUBS144STD.\_\_inmemory\_ext\_rwarea=0

FCUBS144STD.\_\_java\_pool\_size=268435456

FCUBS144STD.\_\_large\_pool\_size=268435456

FCUBS144STD.\_\_oracle\_base='/u01/app/oracle'#ORACLE\_BASE set from environment

FCUBS144STD.\_\_pga\_aggregate\_target=10737418240

FCUBS144STD.\_\_sga\_target=42949672960

FCUBS144STD.\_\_shared\_io\_pool\_size=134217728

FCUBS144STD.\_\_shared\_pool\_size=7113539584

FCUBS144STD.\_\_streams\_pool\_size=268435456

FCUBS144STD.\_\_unified\_pga\_pool\_size=0

\*.\_allow\_level\_without\_connect\_by=TRUE

\*.\_lm\_res\_hash\_bucket=8192

\*.\_no\_recovery\_through\_resetlogs=TRUE

\*.audit\_sys\_operations=FALSE

\*.log\_file\_name\_convert='/u02/app/oracle/oradata/FCUBS144CDB/','/u02/app/oracle/oradata/FCUBS144CDB/'

\*.compatible='19.0.0'

\*.control\_files='/u02/app/oracle/oradata/FCUBS144/control01.ctl','/u02/app/oracle/oradata/FCUBS144/control02.ctl'

\*.cursor\_sharing='FORCE'

\*.db\_block\_size=8192

\*.db\_cache\_advice='ON'

\*.db\_name='FCUBS144'

\*.db\_recovery\_file\_dest\_size=5368709120

\*.db\_recovery\_file\_dest='/u01/FRA'

\*.db\_unique\_name='FCUBS144STD'

\*.instance\_name='FCUBS144STD'

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

\*.dispatchers='(PROTOCOL=TCP) (SERVICE=FCUBS144CDBXDB)'

\*.enable\_pluggable\_database=true

\*.job\_queue\_processes=64

\*.local\_listener='LISTENER\_FCUBS144CDB'

\*.log\_buffer=30720000

\*.nls\_date\_format='DD-MON-RRRR'

\*.nls\_language='AMERICAN'

\*.nls\_territory='AMERICA'

\*.open\_cursors=5000

\*.optimizer\_dynamic\_sampling=1

\*.optimizer\_index\_caching=90

\*.optimizer\_index\_cost\_adj=50

\*.parallel\_max\_servers=128

\*.pga\_aggregate\_limit=0

\*.pga\_aggregate\_target=10G

\*.plsql\_code\_type='NATIVE'

\*.processes=5000

\*.remote\_dependencies\_mode='SIGNATURE'

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

\*.session\_cached\_cursors=400

\*.sga\_target=40G

\*.skip\_unusable\_indexes=FALSE

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

\*.undo\_retention=1800

\*.undo\_tablespace='UNDOTBS1'

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STANDBY> mv orapwFCUBS1442 orapwFCUBSSTD

Step7:- Create directory Structure in Standby database \*\*\*(if req)\*\*\*\*----------------------------------------

[oracle@devdr19c dbs]$ cd $ORACLE\_BASE/admin/

[oracle@devdr19c admin]$ mkdir delhi

[oracle@devdr19c admin]$ cd delhi

[oracle@devdr19c delhi]$ mkdir adump

[oracle@devdr19c delhi]$ mkdir -p /u01/app/oracle/oradata/DELHI

STANDBY========================================================

Step8:- start the standby database using pfile (edited before):-----------------------

SQL> startup nomount pfile='initdelhi.ora';

STEP9:- RESTORE THE CONTROL FILE in STANDBY:------------------------------------------

RMAN> RESTORE STANDBY CONTROLFILE FROM '/tmp/TESTDBSTY.ctl';

RMAN> ALTER DATABASE MOUNT;

\*\*restore the full database backup

RMAN> catalog start with '/u02/backup\_of\_Pri' noprompt;

RMAN > restore database;

\*\*START THE RECOVERY:---------------------------------------------------------------------------------

METHOD-1\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> RECOVER STANDBY DATABASE;

Specify log:{<RET>=suggested | filename | AUTO | CACNCEL}

AUTO

\*if any archive needed copy to standby and start it

METHOD-2\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

RMAN> RECOVER STANDBY DATABASE FROM SERVICE FCUBS144CDB;

finished recovery.

\*Give the service name from tns entry but tnsping should work on both servers

SQL> alter database recover managed standby database using current logfile disconnect nodelay;

Database altered.

SQL> select thread#,max(sequence#) as "LAST\_APPLIED\_LOG" FROM v$LOG\_HISTORY GROUP BY THREAD#;

THREAD# LAST\_APPLIED\_LOG

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STEP10:- CHECK ALERT LOG AND BELOW ARE ISSUES FACED:-----------------

1.add standby log file both in primary and standy database ( standby log file should be

one greater than the online logfile in both database)

SQL> alter database add standby logfile group 4 '/u01/app/oracle/oradata/CHENNAI/redo04.log' size 50m;

Database altered.

SQL> alter database add standby logfile group 5 '/u01/app/oracle/oradata/CHENNAI/redo05.log' size 50m;

Database altered.

SQL> alter database add standby logfile group 6 '/u01/app/oracle/oradata/CHENNAI/redo06.log' size 50m;

Database altered.

\*\*\*\*if there is error in standby database redo clear all logfile group

SQL> ALTER DATABASE CLEAR LOGFILE GROUP 3;

RESTART THE STANDBY DATABASE AND START THE MRP AND CHECK ALERT log.

2.check the log archive dest 1 in standby

SQL> ALTER SYSTEM SET log\_archive\_dest\_1='location=use\_db\_recovery\_file\_dest valid\_for=(all\_logfiles,all\_roles) db\_unique\_name=FCUBS144STD' SCOPE=both;

System altered.

3.SET THIS PARAMETER IN STANDBY TOO

SQL> ALTER SYSTEM SET log\_archive\_config='dg\_config=(FCUBS144CDB,FCUBS144STD)' SCOPE=both;

System altered.

4.CHECK FAL SERVER AND CLIENT IN BOTH DATABASE (below is in standby)

SQL> show parameter fal\_client

fal\_client = FCUBS144STD

SQL> show parameter fal\_server

fal\_server = FCUBS144CDB

5.check if there is further error in alert log

\*\*\*\*\*\*\*\*\*\*\*\*SETTING FALSERVER and FALCLIENT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

In Primary site:

FAL\_SERVER=STANDBY

FAL\_CLIENT=PRIMARY

In Standby site:

FAL\_SERVER=PRIMARY

FAL\_CLIENT=STANDBY

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