<https://serhatcelik.wordpress.com/2024/12/29/how-to-create-oracle-physical-standby-rac-database-from-primary-rac-database/>

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| **High Level Steps**  **1-Pre-Checks and Steps** 1.1-Check Environment Details 1.2-Update /etc/hosts on All Primary & Standby Nodes 1.3-Check All Nodes Communicate with Each Others  **2-Primary Site Steps** 2.1-Check Archivelog Mode on Primary 2.2-Enable Forced Logging on Primary 2.3-Copy Password File from Primary to Standby Servers 2.4-Configure Standby Redo Log on Primary 2.5-Set Primary Database Initialization Parameters 2.6-Check LISTENER Entries on Primary Servers 2.7-Configure TNS Entries on Primary Servers  **3-Standby Site Steps** 3.1-Prepare Profile/Environment Files on Standby Servers 3.2-Create Required Directories on Standby Servers 3.3-Configure PFILE in only First Standby Server 3.4-Startup Standby Database in Nomount State using Newly Created PFILE 3.5-Configure Temporary Static LISTENER for Replication Purpose in only First Standby Server 3.6-Configure TNS Entries on Standby Servers 3.7-Verify TNS Connectivity Between Primary and Standby Servers 3.8-Run Duplicate Command 3.9-Verify Redo Logs on Standby Server 3.10-Create SPFILE from Existing PFILE on Standby Server 3.11-Configure Cluster Initialization Parameters for Standby Servers 3.12-Add Standby Databases to OCR (Oracle Cluster Registry) 3.13-Enable MRP on Standby Server 3.14-Verify Dataguard Sync Status 3.15-Configure Dataguard Deletion Policy |  |

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Prepare Primary RAC database for DR configuration

Enable force logging and ensure database is in archivelog mode

SELECT force\_logging FROM v$database;

ALTER DATABASE FORCE LOGGING;

SELECT force\_logging FROM v$database;

archive log list

set unique name , log\_archive\_config, dest\_2, fal client, fal server and few other parameters

Add the standby redolog files in primary:

select GROUP#,THREAD#, bytes/1024/1024 MB from gv$log order by GROUP#,THREAD#;

Configure Cluster Initialization Parameters for Standby Servers

Now, verify all the required values have the appropriate values.

set lines 999 pages 999

col value for a110

col name for a50

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','fal\_client','standby\_file\_management',

'db\_recovery\_file\_dest','db\_recovery\_file\_dest\_size');

select name,open\_mode,database\_role from v$database;

select process, status, thread#, sequence#, block#, blocks from v$managed\_standby ;

Some Useful Dataguard Commands

Check Dataguard Error on Primary

PRIMARY\_DB> SELECT error "Error" FROM v$archive\_dest;

Dataguard Status Check

-- To check the MRP Status in DB Level

STANDBY\_DB> SELECT PROCESS, CLIENT\_PROCESS, STATUS, THREAD#, SEQUENCE#, BLOCK#, BLOCKS FROM GV$MANAGED\_STANDBY;

-- To Check the MRP Process at OS Level

ps -ef | grep mrp

Start/Stop MRP

-- Start

STANDBY\_DB> alter database recover managed standby database disconnect from session;

-- Stop

STANDBY\_DB> ALTER DATABASE RECOVER MANAGED STANDBY DATABASE CANCEL;