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| Hostname : primary\_os  IP : 192.168.103  Db\_name : **db1**  Db\_unique\_name : **uprimary** | Hostname : standby\_os  IP : 192.168.118  Db\_unique\_name : **ustandby** | Config file **/etc/hosts** server both :  …..  192.168.103 primary\_os  192.168.118 standby\_os |

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| Primary | Standby |
| 1. Archivelog Mode 2. Force Logging Standby 3. Add standby redo log   ***standby logfile group = Redo log group + 1***  ***size = size redo log group***  (Using OFM)  Sql > Alter database add standby logfile group 11 size 200M;  Sql > Alter database add standby logfile group 12 size 200M;  Sql > Alter database add standby logfile group 13 size 200M;  Sql > Alter database add standby logfile group 14 size 200M;   1. Sql > Alter system set standby\_file\_management=auto 2. Copy pfileprimary.ora, orapwdb1 🡺 | pfileprimary.ora :  \*.db\_unique\_name=’standby’  Edit name control\_file   * Add all path in pfileprimary.ora (OS level )   orapwdb1 |
| 1. Config listener.ora   LISTENER = ……………  SID\_LIST\_LISTENER =  (SID\_LIST =  (SID\_DESC =  (ORACLE\_HOME = /u01/app/oracle/product/19.0.0/dbhome\_1)  (SID =**db1**)  )  ) | 1. Config listener.ora   LISTENER =……………    SID\_LIST\_LISTENER =  (SID\_LIST =  (SID\_DESC =  (ORACLE\_HOME = /u01/app/oracle/product/19.0.0/dbhome\_1)  (SID =**db1**)  )  ) |
| ##### Config tnsnames.ora  LISTENER = …  **primarytns** =  (DESCRIPTION =  (ADDRESS = (PROTOCOL = TCP)(HOST = primary\_os )(PORT = 1521))  (CONNECT\_DATA =  (SERVER = DEDICATED)  (SID = **db1**)  )  )  **standbytns** =  (DESCRIPTION =  (ADDRESS = (PROTOCOL = TCP)(HOST =standby\_os)(PORT = 1521))  (CONNECT\_DATA =  (SERVER = DEDICATED)  (SID = **db1**)  )  ) | |
|  | 1. sql > ***starup nomount pfile***=’/home/oracle/ pfileprimary.ora’ 2. sql > create spfile from pfile=’/home/oracle/ pfileprimary.ora’ 3. oracle@standby > cp ~/ orapwdb1 $ORACLE\_HOME/dbs/ orapwdbstandby 4. Create script duplicate.sql :   run {  duplicate target database for standby from active database dorecover nofilenamecheck;  } |
|  | oracle@standby : ***nohup rman*** target sys/admin@**primarytns** auxiliary sys/admin@**standbytns** cmdfile=/home/oracle/scripts/duplicate.sql log=/home/oracle/scripts/duplicate.log &;  sql > alter database open; |
| **Cấu hình manual :**  Sql > ***alter system set log\_archive\_config=’dg\_config=(uprimary,ustandby)’;*** | |
| Sql > ***alter system set log\_archive\_dest\_2=’service=standbytns valid\_for=(online\_logfiles,primary\_roles) db\_unique\_name=ustandby’;***  Sql > alter system set log\_archive\_dest\_state\_2=enable; |  |
|  | Sql > ***alter system set log\_archive\_dest\_2=’service=primarytns valid\_for=(online\_logfiles,primary\_roles) db\_unique\_name=uprimary’***;  Sql > ***altter database recover managed standby database using current logfile disconnect from session;***  Sql > select process, sequence#, thread#, status from v$managed\_standby;  MRP 🡪 applying\_log |

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| ***# cấu hình sử dụng Data broker***  dgmgrl sys/admin@primarytns  dgmgrl > ***create configuration my\_dg\_config as primary database is uprimary connect identifier is primarytns;***  dgmgrl > ***add database ustandby as connect identifier is standbytns maintained as physical;***  dgmgrl > ***enable configuration;*** |

Done !!!

<https://github.com/Hoang-Hai-200/Data-Guard.git>

#Kiểm tra tiến trình đồng bộ

***Select process, status from v$managed\_standby***;

#Kiểm tra độ trễ Primary – Standby

***select name, value, time\_computed from v$dataguard\_stats;***

* 1. Snapshot standbby database

Note : Có cấu hình Fast Recovery Area (FRA)

1. Tắt tiến trình đồng bộ (MRP)

***Alter database recover managed standby database cancel;***

1. Bật database ở chế độ mount
2. ***startup mount;***
3. ***Alter database convert to snapshot standby;***
4. ***Alter database open;***

***Data Guard Broker***

[***https://docs.oracle.com/database/121/DGBKR/dbresource.htm#DGBKR170***](https://docs.oracle.com/database/121/DGBKR/dbresource.htm#DGBKR170)

***dgmgrl > edit database ustandby set state=’APPLY-ON’;***

***edit database ustandby set property TransportLagThreshold=60***

***Switch Protection***

***Edit database ustandby sey property LogXptMode=’ SYNC’;***

***Edit configuration set protection mode as MaxAvailability;***