CONVERT PHYSCIAL STANDBY TO SNAPSHOT STANDBY

- Primary database changes will not applied to snapshot standby database why because there is no MRP process running on snapshot database.
- Whatever changes done on snapshot standby will be flushed out once convert back to physical standby database from snapshot standby

STEP:1 CHECK BOTH PRIMARY AND STANDBY ROLE.

```
set lines 200 pages 2000 col host_name for a20 select name,open_mode,log_mode,database_role,instance_name,host_name fromv$database,v$instance;
```

PRIMARY:-

```
racle9devos -15 export CRACLE_SID=DEVts
racle9devos -15 export CRACLE_HOME=/u01/app/oracle/product/19.0.0/db_1
racle9devos -15 export PATH=5CRACLE_HOME/bin:5SATM
recletdevoe -12
racle9devos -15 sqlplus / as sysdba
gb*Plus: Belease 19.0.0.0.0 - Production on Fri Jun 19 03:22:06 2024
ereion 19.23.0.0.0
opyright (a) 1982, 2023, Cracle. All rights reserved.
zaole Detabase 190 Enterprise Edition Release 15.0.0.0.0 - Production
ereion 19.23.0.0.0
Gh> set lines 200 pages 2000
QL> col host name for a20
GE> select name.open mode.log mode.database role.instance name.host name from v5database.v5instance;
           OPEN MODE
                                      INSTANCE NAME
                                                          HOST RAME
                                                                                     DATABASE NOLE
          READ WRITE
entries.
                                      DEVDE-
                                                           deres
                                                                                     PERMIT
```

STANDBY:-

```
renleådevoed: =|8 export GRACLE_SID*DEVISCS
renleådevoed: =|5 export GRACLE_SIDMX=/GD1/app/oracle/product/18-0.0/db_)
racle#devoodr -|5 export SATH=509AFLE NOME/bin:SFATH
cracle#devoodr -|3
cracle#devoodr -|$ sqlplus / as sysubs
kgi*blus: Belwase 19.0.0.0.0 - Production on Fri Jun 19 00:25:06 3004
 reion 19.23.0.0.0
opyright (c) 1982, 2023, Cracle. All rights reserved.
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Persion 19.23.0.0.0
QL> set lines 300 pages 2000
QL> col host name for a20
 25 select name, open mode, log mode, databass rols, instance name, boot name from v$database, v$instance;
           OPEN MODE
                                       INSTANCE NAME ROST NAME.
                                                                                       DATES BOLE
                                       DEVENTION
                                                            devusde
                                                                                       PRINTERS STANDEY
HILVS
           MINUSTER
```

STEP 2:- CHECK THE ARCHIVED SEQUENCE IN PRIMARY AND STANDBY select

thread#,max(sequence#) from v\$archived_log group by thread#; PRIMARY ::

```
SQL> select thread#,max(sequence#) from v9archived_log group by thread#;
THREAD# MAX(SEQUENCE#)

1 26
```

STANDBY ::

```
SQL> select threadf, max(sequence) from vSarchived_log group by threadf;
THREADf MAX(SEQUENCE)

1 26
```

STEP 3:- CHECK THE FLASHBACK STATUS AND DB_RECOVERY_FILE_SET LOCATION

select flashback_on from v\$database; show parameter db_recovery_file_dest;

```
SQL> select flashback_um from v2dstabase;
FLASHBACK_QM
YES

SQL> show parameter db_recovery_file_dest
NAME TYPE VALUE

db_recovery_file_dest string /u01/app/oracle/fra/
db_recovery_file_dest_size big_integer 8016M
```

IF FLASHBACK IS OFF THEN ENABLE IT BY BELOW COMMMAD :: alter database flashback on;

IF RECOVERY AREA NOT SET THEN SET BY USING BELOW::

```
alter system set db_recovery_file_dest_size=10g; alter system set db_recovery_file_dest='/u01/app/oracle/fra';
```

STEP 4: IN STANDBY SIDE, STOP THE MRP PROCESS.

alter database recover managed standby database cancel;

```
SQL> alter database recover managed standby database cancel;
Database altered.
```

STEP:5 BOUNCE THE DATABASE AND KEEP IN MOUNT STAGE

shut immediate start mount

```
oracle@devcedr -]$ sqlplus / as sysdba
SQL*Plus: Release 19.0.0.0.0 - Production on Pri Jun 19 08:35:06 2024
ermion 19.23.0.0.0
 opyright (c) 1982, 2023, Oracle. All rights reserved.
onnected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.23.0.0.0
sque shut immediate
ORA-01109: database not open
Database dismounted.
MACIE instance shut down.
OL exit
acts exit
Disconnected from Gracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19,23.0.0.0
racle#derosdr -]$
racle@devoadr - 15 sqiplus / as sysdha
SUL-Flust Release 19.0.0.0.0 - Production on Fri Jun 19 08:39:06 2024
Version 19.21.0:0.0
 opyright (c) 1982, 2023, Dracle. All rights reserved.
Fracia Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
ermion 15.21.0.0.0
thurs quiraste 9205
otal System Olobal Area U38860800 bytes
                  8626260 bytes
645526048 bytes
ixed Size
Variable dize
Natabase Buffers 190355072 bytes
Natabase Buffers 3952640 bytes
 stabase mounted.
```

set lines 200 pages 2000 col host_name for a20 select name,open_mode,log_mode,database_role,instance_name,host_name fromv\$database,v\$instance;

```
BQC> set lines 200 pages 2000
BQC> col host_tess for a20
BQC> col host_tess for a20
BQC> select name, open_mode.log_mode.database_vole.instance_name.host_name from v5database.v5inatance;

NAME OFFN MODE INSTANCE_NAME HOST_NAME DATABASE_DOLE

DEVON MODEVED DEVONOR dayouds FRYSICAL STANDAY
```

STEP:5 CONVERT TO SNAPSHOT STANDBY DATABASE alter database convert to snapshot standby;

```
SQL> alter database convert to snapshot standby;
Database altered.
```

STEP:6 OPEN THE STANDBY DATABASE IN READ/WRITE MODE alter database open;

```
SQL> alter database open;
Database altered.
```

STEP:7 CHECK THE DATABASE_ROLE AND OPEN_MODE

STEP:8 TESTING ON THE SNAPSHOT STANDBY DATABASE

```
Dear created.

SQL> grant connect, remource to hard

grant alarted.

SQL> conn hard/dev

Connected.

SQL> show user

USER IS "HART"

SQL> create table sample1(code number, name char(20));

Table created.

SQL> insert into sample values(1, "sam");

I row created.

SQL> select + from sample1;

GODE SAME
```

WE CAN SEE WE ARE ABLE TO DO WRITE OPERATION ON SNAPSHOT DATABASE ALSO.

STEP:9 BOTH SIDE VERIFY THE ARCHIVED SEQUENCE select thread#,max(sequence#)

from v\$archived_log group by thread#;

PRIMARY ::

```
SQL> select threadf, max(sequencef) from v5archived_log group by threadf;
THREADf MAX(SEQUENCEf)

1 28
```

STANDBY ::

```
SQL> select threadf, max(sequencef) from v5archived_log group by threadf;

THREADf MAX(SEQUENCEf)

1 28
```

select process,status,sequence# from v\$managed_standby;



CONVERT BACK TO PHYSICAL STANDBY IF WE DIRECTLY TRYING TO CONVERT THEN WE WILL FACE

THE BELOW ERROR



STEP 1 ::

DOWN THE DATABASE AND OPEN IN MOUNT MODE

Shut immediate Startup mount





STEP:: 2 CHECK THE STANDBY DATABASE_ROLE AND MODE. set lines 200 pages

2000

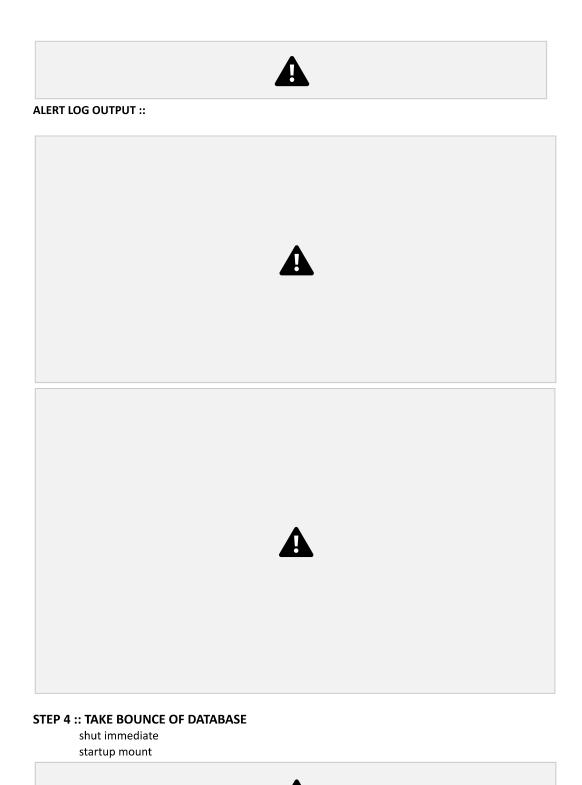
col host_name for a20

select name,open_mode,log_mode,database_role,instance_name,host_name fromv\$database,v\$instance;



STEP 3 ::

CONVERT THE SNAPSHOT STANDBY DATABASE TO PHYSICAL STANDBY DATABASEalter database convert to physical standby;





STEP 5 :: CHECK THE DATABASE ROLE

set lines 200 pages 2000 col host_name for a20 select name,open_mode,log_mode,database_role,instance_name,host_name fromv\$database,v\$instance;



STEP 6:: START THE RECOVERY

alter database recover managed standby database disconnect from session;

STEP 7 ::AFTER

CONVERT TO PHYSICAL STANDBY DATABASE, CHECK THE TABLE STATUS FIRST CHECK THE DATABASE SYNC, IT SHOULD BE IN SYNC.



FROM ABOVE SNIP WE CAN SEE THAT , THE SAMPLE1 TABLE IS NOT PRESENT IN STANDBY DATABASE. AS WHILE CONVERTING BACK TO PHYSICAL MODE DATABASE ROLLEBACKED ALL THE TRANSACTIONS PERFORMED IN SNAPSHOT MODE.