

Preparation of Primary

1. Configure listener and tnsnames.ora
2. Check connectivity using tns ping & login using tns

```
[grid@asr-host-dbprimary admin]$ sqlplus 'sys/primarypass'@DGASRPDB_DBMAIN_DGMGRL as sysdba
```

```
SQL*Plus: Release 19.0.0.0.0 - Production on Thu Dec 28 04:42:42 2023
```

```
Version 19.21.0.0.0
```

```
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```

```
Connected to:
```

```
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
Version 19.21.0.0.0
```

```
SQL> exit
```

```
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
Version 19.21.0.0.0
```

```
[grid@asr-host-dbprimary admin]$ sqlplus 'sys/asrdb2pass'@ASRDB2_DBMAIN_DGMGRL as sysdba
```

```
SQL*Plus: Release 19.0.0.0.0 - Production on Thu Dec 28 04:45:18 2023
```

```
Version 19.21.0.0.0
```

```
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```

```
Connected to:
```

```
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
Version 19.21.0.0.0
```

```
SQL> exit
```

```
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
Version 19.21.0.0.0
```

3. Create symlinks for listener, tnsnames and sqlnet for oracle user

```
[grid@asr-host-dbprimary admin]$ chmod 755 sqlnet.ora listener.ora tnsnames.ora
[oracle@asr-host-dbprimary admin]$ ln -s /u01/app/grid/19.0.0/gridhome_1/network/admin/tnsnames.ora
/u01/app/oracle/database/19.0.0/dbhome_1/network/admin/tnsnames.ora
[oracle@asr-host-dbprimary admin]$ ln -s /u01/app/grid/19.0.0/gridhome_1/network/admin/listener.ora
/u01/app/oracle/database/19.0.0/dbhome_1/network/admin/listener.ora
[oracle@asr-host-dbprimary admin]$ ln -s /u01/app/grid/19.0.0/gridhome_1/network/admin/sqlnet.ora
/u01/app/oracle/database/19.0.0/dbhome_1/network/admin/sqlnet.ora
[oracle@asr-host-dbprimary admin]$ ls -ltr
total 4
-rw-r--r-- 1 oracle oinstall 1536 Feb 14 2018 shrept.lst
drwxr-xr-x 2 oracle oinstall 64 Apr 17 2019 samples
lrwxrwxrwx 1 oracle oinstall 58 Dec 28 05:02 tnsnames.ora ->
/u01/app/grid/19.0.0/gridhome_1/network/admin/tnsnames.ora
lrwxrwxrwx 1 oracle oinstall 58 Dec 28 05:02 listener.ora ->
/u01/app/grid/19.0.0/gridhome_1/network/admin/listener.ora
lrwxrwxrwx 1 oracle oinstall 56 Dec 28 05:03 sqlnet.ora ->
/u01/app/grid/19.0.0/gridhome_1/network/admin/sqlnet.ora
```

4. Change the paramters in primary DB

```
SQL> alter database flashback on;
```

```
Database altered.
```

```
SQL> alter database force logging;
```

```
Database altered.
```

5. Add Standby redo log files

```
SQL> alter database add standby logfile '+DGDATA' size 200M;
```

Database altered.

```
SQL> alter database add standby logfile '+DGDATA' size 200M;
```

Database altered.

```
SQL> alter database add standby logfile '+DGDATA' size 200M;
```

Database altered.

6. Change file management to auto

```
SQL> alter system set standby_file_management = AUTO scope = both;
```

System altered.

Preparation of Standby

Environment details:

```
grid@asr-host-dbstandby ~]$ whoami
grid
grid@asr-host-dbstandby ~]$ hostname
asr-host-dbstandby
grid@asr-host-dbstandby ~]$ echo $ORACLE_HOME
/app/grid/19.0.0/gridhome_1
grid@asr-host-dbstandby ~]$ echo $ORACLE_SID
+ASM
```

1. Configure listener and tnsnames.ora

```
[grid@asr-host-dbstandby admin]$ lsnrctl status
lsnrctl for Linux: Version 19.0.0.0.0 - Production on 28-DEC-2023 05:20:38
copyright (c) 1991, 2023, Oracle. All rights reserved.
connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=asr-host-dbstandby)(PORT=1521)))
status of the LISTENER
-----
alias          LISTENER
version        TNSLSNR for Linux: Version 19.0.0.0.0 - Production
start Date     25-DEC-2023 08:31:21
uptime         2 days 20 hr. 49 min. 16 sec
trace Level    off
security       ON: Local OS Authentication
snmp           OFF
listener Parameter File /u01/app/grid/19.0.0/gridhome_1/network/admin/listener.ora
listener Log File   /u01/app/grid/gridbase/diag/tnslsnr/asr-host-dbstandby/listener/alert/log.xml
listening Endpoints Summary...
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=asr-host-dbstandby.local)(PORT=1521)))
(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))
```

services Summary...

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

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

service "+ASM_DGDATA" has 1 instance(s).

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

service "+ASM_DGREDO" has 1 instance(s).

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

service "STANDBY.DGASRPDB.LOCAL" has 1 instance(s).

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

service "STANDBY.ASRDB2.LOCAL" has 1 instance(s).

Instance "ASRDB2", status UNKNOWN, has 1 handler(s) for this service...

the command completed successfully

2. Copy the tnsnames.ora file from primary site

```
[grid@asr-host-dbstandby admin]$ scp  
dbprimary:/u01/app/grid/19.0.0/gridhome_1/network/admin/tnsnames.ora .
```

The authenticity of host 'dbprimary (192.168.22.15)' can't be established.

ECDSA key fingerprint is SHA256:1uYX4e/68kz4tMbA8gv4wkYtcH+EIPmBIGrvQLVAaKY.

Are you sure you want to continue connecting (yes/no/[fingerprint])? **yes**

Warning: Permanently added 'dbprimary,192.168.22.15' (ECDSA) to the list of known hosts.

grid@dbprimary's password:

```
tnsnames.ora 100%  
1595 1.7MB/s 00:00
```

```
[grid@asr-host-dbstandby admin]$ ls -ltr
```

total 20

-rw-r--r-- 1 grid oinstall 1536 Feb 14 2018 shrept.lst

drwxr-xr-x 2 grid oinstall 64 Apr 17 2019 samples

-rwxrwxr-x 1 grid oinstall 187 Dec 25 08:31 sqlnet.ora

-rwxrwxr-x 1 grid oinstall 840 Dec 28 05:20 listener.ora

-rwxrwxr-x 1 grid oinstall 1595 Dec 28 05:24 tnsnames.ora

3. Create symlinks for oracle user for sqlnet.ora, tnsnames.ora, listener.ora

```
[oracle@asr-host-dbstandby ~]$ ln -s /u01/app/grid/19.0.0/gridhome_1/network/admin/tnsnames.ora /u01/app/oracle/database/19.0.0/dbhome_1/network/admin/tnsnames.ora
```

```
[oracle@asr-host-dbstandby ~]$ ln -s /u01/app/grid/19.0.0/gridhome_1/network/admin/listener.ora /u01/app/oracle/database/19.0.0/dbhome_1/network/admin/listener.ora
```

```
[oracle@asr-host-dbstandby ~]$ ln -s /u01/app/grid/19.0.0/gridhome_1/network/admin/sqlnet.ora /u01/app/oracle/database/19.0.0/dbhome_1/network/admin/sqlnet.ora
```

```
[oracle@asr-host-dbstandby ~]$ ls -ltr /u01/app/oracle/database/19.0.0/dbhome_1/network/admin/
```

total 4

```
-rw-r--r-- 1 oracle oinstall 1536 Feb 14 2018 shrept.lst
```

```
drwxr-xr-x 2 oracle oinstall 64 Apr 17 2019 samples
```

```
lrwxrwxrwx 1 oracle oinstall 58 Dec 28 05:27 tnsnames.ora -> /u01/app/grid/19.0.0/gridhome_1/network/admin/tnsnames.ora
```

```
lrwxrwxrwx 1 oracle oinstall 58 Dec 28 05:27 listener.ora -> /u01/app/grid/19.0.0/gridhome_1/network/admin/listener.ora
```

```
lrwxrwxrwx 1 oracle oinstall 56 Dec 28 05:27 sqlnet.ora -> /u01/app/grid/19.0.0/gridhome_1/network/admin/sqlnet.ora
```

4. Set profile(environment variables) for database

```
# .bash_profile

# Get the aliases and functions

if [ -f ~/.bashrc ]; then
    . ~/.bashrc
fi

# User specific environment and startup programs

export TMP=/tmp

export TMPDIR=$TMP

export ORACLE_HOSTNAME=asr-host-dbprimary

export ORACLE_UNQNAME=DGASRPDBS

export ORACLE_BASE=/u01/app/oracle

export DB_HOME=/u01/app/oracle/database/19.0.0/dbhome_1
```

```
export ORACLE_HOME=/u01/app/oracle/database/19.0.0/dbhome_1
export ORACLE_SID=DGASRPDB
export ORACLE_TERM=xterm
export PATH=/usr/sbin:/usr/local/bin:$PATH
export ORACLE_TERM=xterm
export PATH=/usr/sbin:/usr/local/bin:$PATH
export PATH=$ORACLE_HOME/bin:$PATH
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export CLASSPATH=$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib
```

5. Check connectivity from standby to primary

```
sqlplus 'sys/asrdb2pass'@ASRDB2_DBMAIN_DGMGRL as sysdba
sqlplus 'sys/primarypass'@DGASRPDB_DBMAIN_DGMGRL as sysdba
```

```
[oracle@asr-host-dbstandby ~]$ sqlplus 'sys/asrdb2pass'@ASRDB2_DBMAIN_DGMGRL as sysdba
```

```
SQL*Plus: Release 19.0.0.0.0 - Production on Thu Dec 28 06:23:22 2023
```

```
Version 19.21.0.0.0
```

```
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```

```
Connected to:
```

```
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
Version 19.21.0.0.0
```

```
SQL> exit
```

```
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
Version 19.21.0.0.0
```

```
[oracle@asr-host-dbstandby ~]$ sqlplus 'sys/primarypass'@DGASRPDB_DBMAIN_DGMGRL as sysdba
```

```
SQL*Plus: Release 19.0.0.0.0 - Production on Thu Dec 28 06:23:31 2023
```

```
Version 19.21.0.0.0
```

```
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```

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.21.0.0.0

SQL> **exit**

Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.21.0.0.0

6. Copy password file to standby

```
[oracle@asr-host-dbstandby dbs]$ scp dbprimary:/u01/app/oracle/database/19.0.0/dbhome_1/dbs/orapw* .
```

The authenticity of host 'dbprimary (192.168.22.15)' can't be established.

ECDSA key fingerprint is SHA256:1uYX4e/68kz4tMbA8gv4wkYtcH+EIPmBIGrvQLVAaKY.

Are you sure you want to continue connecting (yes/no/[fingerprint])? **yes**

Warning: Permanently added 'dbprimary,192.168.22.15' (ECDSA) to the list of known hosts.

oracle@dbprimary's password:

```
orapwDGASRPDB                                100% 2048
  2.0MB/s  00:00
orapwASRDB2                                  100%
  2048  2.5MB/s  00:00
```

```
[oracle@asr-host-dbstandby dbs]$ ls -ltr
```

total 12

-rw-r--r-- 1 oracle oinstall 3079 May 14 2015 init.ora

-rw-r----- 1 oracle oinstall 2048 Dec 28 06:25 orapwDGASRPDB

-rw-r----- 1 oracle oinstall 2048 Dec 28 06:25 orapwASRDB2

7. Create temp pfile to start the db in nomount mode

```
[oracle@asr-host-dbstandby dbs]$ echo "/*.db_name='DGASRPDB'" > /tmp/initdb.ora
```

```
[oracle@asr-host-dbstandby ~]$ cat /tmp/initdb.ora
```

```
/*.db_name='DGASRPDB'
```

8. Startup Database in nomount mode

```
[oracle@asr-host-dbstandby ~]$ sqlplus / as sysdba
```

```
SQL*Plus: Release 19.0.0.0.0 - Production on Thu Dec 28 06:29:03 2023
```

```
Version 19.21.0.0.0
```

```
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```

```
Connected to an idle instance.
```

```
SQL> startup nomount pfile='/tmp/initdb.ora';
```

```
ORACLE instance started.
```

```
Total System Global Area 675282320 bytes
```

```
Fixed Size 8928656 bytes
```

```
Variable Size 457179136 bytes
```

```
Database Buffers 201326592 bytes
```

```
Redo Buffers 7847936 bytes
```

9. Create ADUMP Directory

**check in primary and create the same location*

```
[oracle@asr-host-dbstandby ~]$ mkdir -p /u01/app/oracle/admin/DGASRPDB/adump/
```

10. Connect to rman target and aux db for active duplicate

```
[oracle@asr-host-dbstandby ~]$ rman target 'sys/primarypass'@DGASRPDB_DBMAIN_DGMGRL auxiliary  
'sys/primarypass'@DGASRPDB_STANDBY_DGMGRL
```

```
Recovery Manager: Release 19.0.0.0.0 - Production on Thu Dec 28 06:32:38 2023
```

```
Version 19.21.0.0.0
```

```
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```

```
connected to target database: DGASRPDB (DBID=1461211867)
```

```
connected to auxiliary database: DGASRPDB (not mounted)
```

11. Run the active duplicate script

```
duplicate target database for standby from active database do recover spfile set db_unique_name='DGASRPDBS'  
comment 'Is Standby' set local_listener='(ADDRESS=(PROTOCOL=TCP)(HOST=asr-host-  
dbstandby))(PORT=1521))' nofilenamecheck;
```

refer to active_duplicate.log

12. Set the following parameter in Standby

```
SQL> alter database flashback on;
```

Database altered.

```
standby_file_management --> auto
```

13. Shutdown the DB from sqlplus prompt

```
SQL> shu immediate;
```

ORA-01109: database not open

Database dismounted.

ORACLE instance shut down.

14. Add the database in srvctl

```
srvctl add database -db DGASRPDBS -oraclehome /u01/app/oracle/database/19.0.0/dbhome_1 -domain  
DGASRPDB.local -spfile /u01/app/oracle/database/19.0.0/dbhome_1/dbs/spfileDGASRPDB.ora -role  
PHYSICAL_STANDBY -startoption MOUNT -dbname DGASRPDB -policy AUTOMATIC -instance DGASRPDB
```

```
[oracle@asr-host-dbstandby ~]$ srvctl add database -db DGASRPDBS -oraclehome  
/u01/app/oracle/database/19.0.0/dbhome_1 -domain DGASRPDB.local -spfile  
/u01/app/oracle/database/19.0.0/dbhome_1/dbs/spfileDGASRPDB.ora -role PHYSICAL_STANDBY -  
startoption MOUNT -dbname DGASRPDB -policy AUTOMATIC -instance DGASRPDB
```

```
[oracle@asr-host-dbstandby ~]$ srvctl config database
```

DGASRPDBS

```
[oracle@asr-host-dbstandby ~]$ srvctl config database -d DGASRPDBS
```

```
Database unique name: DGASRPDBS
Database name: DGASRPDB
Oracle home: /u01/app/oracle/database/19.0.0/dbhome_1
Oracle user: oracle
Spfile: /u01/app/oracle/database/19.0.0/dbhome_1/dbs/spfileDGASRPDB.ora
Password file:
Domain: DGASRPDB.local
Start options: mount
Stop options: immediate
Database role: PHYSICAL_STANDBY
Management policy: AUTOMATIC
Disk Groups:
Services:
OSDBA group:
OSOPER group:
Database instance: DGASRPDB
```

15. Add Service to the Standby DB:

```
srvctl add service -d DGASRPDBS -s DGASRPDB_ha.local -role PRIMARY
```

```
[oracle@asr-host-dbstandby ~]$ srvctl status service -d DGASRPDBS -s DGASRPDB_ha.local
Service DGASRPDB_ha.local is not running.
```

16. Start the standby DB using srvctl

```
[oracle@asr-host-dbstandby ~]$ srvctl start db -d DGASRPDBS
[oracle@asr-host-dbstandby ~]$ srvctl status db -d DGASRPDBS
Database is running.
```

17. Change the following parameters in primary

```
standby_file_management = AUTO  
dg_broker_start=true
```

```
SQL> alter system set standby_file_management = AUTO scope = both;
```

System altered.

```
SQL> alter system set dg_broker_start=true scope=both;
```

System altered.

18. Create DGMGRL Configuration for standby

```
[oracle@asr-host-dbprimary ~]$ dgmgrl 'sys/primarypass' as sysdba
```

DGMGRL for Linux: Release 19.0.0.0.0 - Production on Thu Dec 28 06:59:31 2023

Version 19.21.0.0.0

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Welcome to DGMGRL, type "help" for information.

Connected to "DGASRPDB"

Connected as SYSDBA.

```
DGMGRL> create configuration 'DGASRPDB_dg_config' as primary database is 'DGASRPDB' connect identifier is  
DGASRPDB_DBMAIN_DGMGRL;
```

Configuration "DGASRPDB_dg_config" created with primary database "DGASRPDB"

```
DGMGRL> add database DGASRPDBS as connect identifier is DGASRPDB_STANDBY_DGMGRL maintained as  
physical;
```

Database "DGASRPDBs" added

```
DGMGRL> show configuration
```

Configuration - DGASRPDB_dg_config

Protection Mode: MaxPerformance

Members:

DGASRPDB - Primary database

DGASRPDBs - Physical standby database

Fast-Start Failover: Disabled

Configuration Status:

DISABLED

DGMGRL> **enable configuration**

Enabled.

DGMGRL> **show database DGASRPDBs**

Database - DGASRPDBs

Role: PHYSICAL STANDBY

Intended State: APPLY-ON

Transport Lag: 0 seconds (computed 0 seconds ago)

Apply Lag: 0 seconds (computed 0 seconds ago)

Average Apply Rate: 331.00 KByte/s

Real Time Query: ON

Instance(s):

DGASRPDB

Database Status:

SUCCESS

19. Add Service to the Primary DB:

```
srvctl add service -d DGASRPDB -s DGASRPDB_ha.local -role PRIMARY
```

```
[oracle@asr-host-dbprimary ~]$ srvctl start service -d DGASRPDB -s DGASRPDB_ha.local
```

```
[oracle@asr-host-dbprimary ~]$ srvctl status service -d DGASRPDB -s DGASRPDB_ha.local
```

Service DGASRPDB_ha.local is running

LOGS

```
[oracle@asr-host-dbstandby ~]$ rman target 'sys/primarypass'@DGASRDB_DBMAIN_DGMGRL auxiliary  
'sys/standbypass'@DGASRDB_STANDBY_DGMGRL
```

Recovery Manager: Release 19.0.0.0.0 - Production on Thu Dec 28 06:40:38 2023

Version 19.21.0.0.0

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connected to target database: DGASRDB (DBID=1461211867)

connected to auxiliary database: DGASRDB (not mounted)

```
RMAN> duplicate target database for standby from active database dorecover spfile set  
db_unique_name='DGASRDBS' comment 'Is Standby' set  
local_listener='(ADDRESS=(PROTOCOL=TCP)(HOST=asr-host-dbstandby)(PORT=1521))' nofilenamecheck;
```

Starting Duplicate Db at 28-DEC-23

using target database control file instead of recovery catalog

allocated channel: ORA_AUX_DISK_1

channel ORA_AUX_DISK_1: SID=130 device type=DISK

current log archived

contents of Memory Script:

```
{  
  backup as copy reuse  
  passwordfile auxiliary format '/u01/app/oracle/database/19.0.0/dbhome_1/dbs/orapwDGASRDB' ;  
  restore clone from service 'DGASRDB_DBMAIN_DGMGRL' spfile to  
'/u01/app/oracle/database/19.0.0/dbhome_1/dbs/spfileDGASRDB.ora';  
  sql clone "alter system set spfile= '/u01/app/oracle/database/19.0.0/dbhome_1/dbs/spfileDGASRDB.ora'";  
}
```

executing Memory Script

Starting backup at 28-DEC-23

allocated channel: ORA_DISK_1

channel ORA_DISK_1: SID=499 device type=DISK

Finished backup at 28-DEC-23

Starting restore at 28-DEC-23

using channel ORA_AUX_DISK_1

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: restoring SPFILE

output file name=/u01/app/oracle/database/19.0.0/dbhome_1/dbs/spfileDGASRDB.ora

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:01

Finished restore at 28-DEC-23

sql statement: alter system set spfile= '/u01/app/oracle/database/19.0.0/dbhome_1/dbs/spfileDGASRDB.ora'

contents of Memory Script:

```
{  
  sql clone "alter system set db_unique_name =  
  "DGASRDBS" comment=  
  "Is Standby" scope=spfile";  
  sql clone "alter system set local_listener =  
  "(ADDRESS=(PROTOCOL=TCP)(HOST=asr-host-dbstandby)(PORT=1521))" comment=  
  "" scope=spfile";  
  shutdown clone immediate;  
  startup clone nomount;  
}
```

executing Memory Script

sql statement: alter system set db_unique_name = "DGASRDBS" comment= "Is Standby" scope=spfile

sql statement: alter system set local_listener = "(ADDRESS=(PROTOCOL=TCP)(HOST=asr-host-dbstandby)(PORT=1521))" comment= "" scope=spfile

Oracle instance shut down

connected to auxiliary database (not started)

Oracle instance started

Total System Global Area 20132657264 bytes

Fixed Size	18372720 bytes
Variable Size	2483027968 bytes
Database Buffers	17582522368 bytes
Redo Buffers	48734208 bytes

duplicating Online logs to Oracle Managed File (OMF) location

duplicating Datafiles to Oracle Managed File (OMF) location

contents of Memory Script:

```
{  
  sql clone "alter system set control_files =  
    "+DGDATA/DGASRDBS/CONTROLFILE/current.257.1156747271",  
    "+DGDATA/DGASRDBS/CONTROLFILE/current.258.1156747271" comment=  
    "Set by RMAN" scope=spfile";  
  restore clone from service 'DGASRDB_DBMAIN_DGMGRL' standby controlfile;  
}
```

executing Memory Script

sql statement: alter system set control_files = "+DGDATA/DGASRDBS/CONTROLFILE/current.257.1156747271",
"+DGDATA/DGASRDBS/CONTROLFILE/current.258.1156747271" comment= "Set by RMAN" scope=spfile

Starting restore at 28-DEC-23

allocated channel: ORA_AUX_DISK_1

channel ORA_AUX_DISK_1: SID=1102 device type=DISK

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: restoring control file

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:01

output file name=+DGDATA/DGASRDBS/CONTROLFILE/current.261.1156747273

output file name=+DGDATA/DGASRDBS/CONTROLFILE/current.262.1156747273

Finished restore at 28-DEC-23

contents of Memory Script:

```
{  
  sql clone 'alter database mount standby database';  
}
```

executing Memory Script

sql statement: alter database mount standby database

contents of Memory Script:

```
{  
  set newname for clone tempfile 1 to new;  
  switch clone tempfile all;  
  set newname for clone datafile 1 to new;  
  set newname for clone datafile 2 to new;  
  set newname for clone datafile 3 to new;  
  set newname for clone datafile 4 to new;  
  set newname for clone datafile 5 to new;  
  set newname for clone datafile 7 to new;  
  set newname for clone datafile 8 to new;  
  set newname for clone datafile 9 to new;  
  restore  
  from nonsparse from service  
'DGASRDB_DBMAIN_DGMGRL' clone database
```

```
;  
sql 'alter system archive log current';  
}
```

executing Memory Script

executing command: SET NEWNAME

renamed tempfile 1 to +DGDATA in control file

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

Starting restore at 28-DEC-23

using channel ORA_AUX_DISK_1

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00001 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:03

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00002 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:08

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00003 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:03

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00004 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:03

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00005 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:55

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00007 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:01

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00008 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:55

channel ORA_AUX_DISK_1: starting datafile backup set restore

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_AUX_DISK_1: restoring datafile 00009 to +DGDATA

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:07

Finished restore at 28-DEC-23

sql statement: alter system archive log current

current log archived

contents of Memory Script:

```
{  
  restore clone force from service 'DGASRDB_DBMAIN_DGMGRL'  
    archivelog from scn 2428756;  
  switch clone datafile all;  
}
```

executing Memory Script

Starting restore at 28-DEC-23

using channel ORA_AUX_DISK_1

channel ORA_AUX_DISK_1: starting archived log restore to default destination

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: restoring archived log

archived log thread=1 sequence=21

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:01

channel ORA_AUX_DISK_1: starting archived log restore to default destination

channel ORA_AUX_DISK_1: using network backup set from service DGASRDB_DBMAIN_DGMGRL

channel ORA_AUX_DISK_1: restoring archived log

archived log thread=1 sequence=22

channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:01

Finished restore at 28-DEC-23

datafile 1 switched to datafile copy

input datafile copy RECID=9 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/system.263.1156747281

datafile 2 switched to datafile copy

input datafile copy RECID=10 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/zonos_oss_10240_idx.264.1156747283

datafile 3 switched to datafile copy

input datafile copy RECID=11 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/sysaux.265.1156747291

datafile 4 switched to datafile copy

input datafile copy RECID=12 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/undotbs1.266.1156747293

datafile 5 switched to datafile copy

input datafile copy RECID=13 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/zonos_oss_10240.267.1156747297

datafile 7 switched to datafile copy

input datafile copy RECID=14 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/users.268.1156747351

datafile 8 switched to datafile copy

input datafile copy RECID=15 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/customer_10240.269.1156747353

datafile 9 switched to datafile copy

input datafile copy RECID=16 STAMP=1156747417 file
name=+DGDATA/DGASRDBS/DATAFILE/customer_10240_idx.270.1156747407

contents of Memory Script:

```
{  
  set until scn 2429078;  
  recover  
  standby  
  clone database  
  delete archivelog  
  ;  
}
```

executing Memory Script

executing command: SET until clause

Starting recover at 28-DEC-23

using channel ORA_AUX_DISK_1

starting media recovery

archived log for thread 1 with sequence 21 is already on disk as file

+DGDATA/DGASRDBS/ARCHIVELOG/2023_12_28/thread_1_seq_21.271.1156747415

archived log for thread 1 with sequence 22 is already on disk as file

+DGDATA/DGASRDBS/ARCHIVELOG/2023_12_28/thread_1_seq_22.272.1156747417

archived log file name=+DGDATA/DGASRDBS/ARCHIVELOG/2023_12_28/thread_1_seq_21.271.1156747415

thread=1 sequence=21

archived log file name=+DGDATA/DGASRDBS/ARCHIVELOG/2023_12_28/thread_1_seq_22.272.1156747417

thread=1 sequence=22

media recovery complete, elapsed time: 00:00:01

Finished recover at 28-DEC-23

contents of Memory Script:

```
{  
  delete clone force archivelog all;  
}
```

executing Memory Script

released channel: ORA_DISK_1

released channel: ORA_AUX_DISK_1

allocated channel: ORA_DISK_1

channel ORA_DISK_1: SID=499 device type=DISK

deleted archived log

archived log file name=+DGDATA/DGASRDBS/ARCHIVELOG/2023_12_28/thread_1_seq_21.271.1156747415

RECID=1 STAMP=1156747415

deleted archived log

archived log file name=+DGDATA/DGASRDBS/ARCHIVELOG/2023_12_28/thread_1_seq_22.272.1156747417
RECID=2 STAMP=1156747416

Deleted 2 objects

Finished Duplicate Db at 28-DEC-23

