

# Production HRPRD recovery test

bswexadb01-rlmu81.pvtppproddb1021.phxpvtppprod.oraclevcn.com (10.21.133.2)  
bswexadb01-rlmu82.pvtppproddb1021.phxpvtppprod.oraclevcn.com (10.21.133.3)

4 HRPXNX	READ WRITE NO
5 PHPRD	READ WRITE NO
6 HRPXNX	READ WRITE NO
7 HRPXNXB1	READ WRITE NO

\*.db\_domain='pvtppproddb1021.phxpvtppprod.oraclevcn.com'

4 HRPXNX	READ WRITE NO
5 PHPRD	READ WRITE NO
6 HRPXNX	READ WRITE NO
7 HRPXNXB1	READ WRITE NO

\*.db\_domain='auxrestore'

## Create AUXHRPRD.env

- ✓ 1. cp PS122PRD.env to auxprd.env
- ✓ 2. Replace ORACLE\_UNQNAME
- ✓ 3. Relace ORCLE\_SID

```
[oracle@bswexadbp01-rlmu81 ~]$ cat $HOME/AUXHRPRD.env
ORACLE_HOME=/u02/app/oracle/product/12.2.0/dbhome_2; export ORACLE_HOME
OH=/u02/app/oracle/product/12.2.0/dbhome_2; export OH
ORACLE_UNQNAME=AUXHRPRD_uniq; export ORACLE_UNQNAME
ORACLE_BASE=/u02/app/oracle; export ORACLE_BASE
PATH=/sbin:/bin:/usr/sbin:/usr/bin:/u02/app/oracle/product/12.2.0/dbhome_
2/bin:/u02/app/oracle/product/12.2.0/dbhome_2/OPatch; export PATH
LD_LIBRARY_PATH=/u02/app/oracle/product/12.2.0/dbhome_2/lib; export LD_LIBRARY_PATH
TNS_ADMIN=/u02/app/oracle/product/12.2.0/dbhome_2/network/admin/PS122PRD; export
TNS_ADMIN
ORACLE_HOSTNAME=bswexadbp01-rlmu81.pvtppproddb1021.phxpvtppprod.oraclevcn.com; export
ORACLE_HOSTNAME
ORACLE_SID=AUXHRPRD; export ORACLE_SID
[oracle@bswexadbp01-rlmu81 ~]$
```

```
998 2020-10-08.11:38:17 cd /home/oracle/dba_code/RMAN/RECOVER/PS122PRD
999 2020-10-08.11:38:19 ls -l
1002 2020-10-08.11:39:18 cp $HOME/PRD.env auxprd.env
1003 2020-10-08.11:39:25 vi auxprd.env
1004 2020-10-08.11:40:56 cp auxprd.env $HOME
[oracle@aupp-hroradb-f9exx1 RECOVER]$
```

# Create AUXHRPRD.ora

- ✓ 1. Under /home/oracle/dba\_code/RMAN/RECOVER/PS122PRD, cp aux731.ora to auxprd.ora
- ✓ 2. Change compatible to the right version
- ✓ 3. Replace upper case AUX731 to AUXPRD and lower case aux731 to auxprd
- ✓ 4. Confirm domain name is auxrestore

```
1015 2020-10-08.11:53:17 cd /home/oracle/dba_code/RMAN/RECOVER
1016 2020-10-08.11:53:20 ls -l
1017 2020-10-08.11:53:48 cp aux731.ora auxprd.ora
1018 2020-10-08.11:53:55 vi auxprd.ora
1019 2020-10-08.11:56:03 cat auxprd.ora
```

```
[oracle@aupp-hrordb-f9exx1 PS122PRD]$ cat AUXHRPRD.ora
*.audit_file_dest='/u01/app/oracle/admin/AUXHRPRD/adump'
*.audit_sys_operations=TRUE
*.audit_trail='db'
*.cluster_database=false
*.compatible='12.2.0.1.0'
*.control_files='+DATAC1/AUXHRPRD_UNIQ/CONTROLFILE/control.ctl'
*.db_block_checking='false'
*.db_block_checksum='typical'
*.db_block_size=8192
*.db_create_file_dest='+DATAC1'
*.db_create_online_log_dest_1='+DATAC1'
*.db_domain='auxrestore'
*.db_files=20000
*.db_flashback_retention_target=1440
*.db_lost_write_protect='typical'
*.db_name='AUXHRPRD'
*.db_recovery_file_dest='+RECOC1'
*.db_recovery_file_dest_size=17729624997888
*.db_unique_name='AUXHRPRD_uniq'
*.diagnostic_dest='/u02/app/oracle'
*.dispatchers='(PROTOCOL=TCP) (SERVICE=AUXHRPRDXDB)'
*.enable_pluggable_database=true
*.fast_start_mttr_target=300
*.filesystemio_options='setall'
*.global_names=FALSE
*.log_archive_max_processes=4
*.log_archive_min_succeed_dest=1
*.log_buffer=134217728
*.nls_language='AMERICAN'
*.nls_territory='AMERICA'
*.open_cursors=300
*.os_authent_prefix=''
*.parallel_execution_message_size=16384
*.parallel_max_servers=1280
*.parallel_min_servers=0
```

```
*.parallel_threads_per_cpu=1
*.pga_aggregate_target=2G
*.processes=300
*.recyclebin='on'
*.remote_listener='bswexadbp01-rlmu8-scan.pvtppproddb1021.phxpvtppprod.oraclecn.com:1521'
*.remote_login_passwordfile='exclusive'
*.sga_target=6G
*.sql92_security=TRUE
*.standby_file_management='auto'
*.undo_tablespace='UNDOTBS1'
*.use_large_pages='ONLY'
```

# Create spfile for auxprd

- ☒ Run script to create spfile
- ☒ Manually stop and restart to confirm
- ☐ Double check db\_domain and has to be **auxrestore**

```
mkdir -p /u01/app/oracle/admin/AUXHRPRD/adump
. $HOME/AUXHRPRD.env
echo $ORACLE_UNQNAME
echo $ORACLE_SID
sqlplus / as sysdba << EOF
Startup nomount pfile='/home/oracle/dba_code/RMAN/RECOVER/PS122PRD/AUXHRPRD.ora'
Create spfile from pfile='/home/oracle/dba_code/RMAN/RECOVER/PS122PRD/AUXHRPRD.ora';
EOF
```

```
[oracle@aupp-hroradb-f9exx1 RECOVER]$ . $HOME/auxdbaqa.env
[oracle@aupp-hroradb-f9exx1 RECOVER]$ echo $ORACLE_SID
auxdbaqa1
[oracle@aupp-hroradb-f9exx1 RECOVER]$ mkdir -p /u01/app/oracle/admin/auxdbaqa/adump
[oracle@aupp-hroradb-f9exx1 RECOVER]$ . $HOME/auxdbaqa.env
[oracle@aupp-hroradb-f9exx1 RECOVER]$ sqlplus / as sysdba << EOF
> Startup nomount pfile='/home/oracle/dba_code/RMAN/RECOVER/auxdbaqa.ora'
> Create spfile from pfile='/home/oracle/dba_code/RMAN/RECOVER/auxdbaqa.ora';
> EOF
```

SQL\*Plus: Release 12.1.0.2.0 Production on Thu Oct 8 12:05:06 2020

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Connected to an idle instance.

SQL> ORACLE instance started.

Total System Global Area 6442450944 bytes

Fixed Size 2938792 bytes

Variable Size 1207961688 bytes

Database Buffers 5083496448 bytes

Redo Buffers 148054016 bytes

SQL>

**File created.**

```
SQL> Disconnected from Oracle Database 12c EE Extreme Perf Release 12.1.0.2.0 - 64bit Production
With the Partitioning, Real Application Clusters, OLAP, Advanced Analytics
and Real Application Testing options
[oracle@aupp-hroradb-f9exx1 RECOVER]$
```

Manual restart, use show pdbs to confirm no PDB used

```
echo $ORACLE_SID
```

```
sqlplus / as sysdba << 'EOF'  
select instance_name, host_name from v$instance;  
Show pdbs  
EOF
```

```
sqlplus / as sysdba << 'EOF'  
select instance_name, host_name from v$instance;  
Show pdbs  
shutdown immediate;  
EOF
```

```
sqlplus / as sysdba << 'EOF'  
Startup nomount;  
Show pdbs  
Show parameter db_domain  
EOF
```

```
[oracle@aupp-hroradb-f9exx1 RECOVER]$ sqlplus / as sysdba
```

SQL\*Plus: Release 12.1.0.2.0 Production on Thu Oct 8 12:06:04 2020

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Connected to:

Oracle Database 12c EE Extreme Perf Release 12.1.0.2.0 - 64bit Production  
With the Partitioning, Real Application Clusters, Automatic Storage Management, OLAP,  
Advanced Analytics and Real Application Testing options

```
SQL> show pdbs  
select instance_name, host_name from v$instance;  
SQL> shutdown immediate;  
ORA-01507: database not mounted
```

ORACLE instance shut down.

```
SQL> startup nomount;
```

ORACLE instance started.

Total System Global Area 6442450944 bytes

Fixed Size 2938792 bytes

Variable Size 1207961688 bytes

Database Buffers 5083496448 bytes

Redo Buffers 148054016 bytes

```
Show parameter db_domain;
```

```
SQL> show parameter db_domain
```

NAME	TYPE	VALUE
------	------	-------

-----

 db\_domain                      string    auxrestore  
SQL>

SQL> exit

Disconnected from Oracle Database 12c EE Extreme Perf Release 12.1.0.2.0 - 64bit Production  
With the Partitioning, Real Application Clusters, OLAP, Advanced Analytics  
and Real Application Testing options  
[oracle@aupp-hroradb-f9exx1 RECOVER]\$

# Configure RMAN duplicate command

## ✓★ Super important auxiliary has to point to aux cdb instance

```
[oracle@aupp-hroradb-f9exx1 PRD]$ . $HOME/AUXHRPRD.env
[oracle@aupp-hroradb-f9exx1 PRD]$ echo $ORACLE_SID
auxprd1
```

For failed

Only after check off the aux instance run duplicate block

```
nohup rman << EOF &
connect target sys/PWD@PS122PRD
connect auxiliary /
run {
  allocate channel d1 device type disk;
  ALLOCATE CHANNEL t1 DEVICE TYPE SBT PARMS
  "SBT_LIBRARY=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/libopc.so,
  ENV=(OPC_PFILE=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/opcPS122PRD.ora)";
  allocate auxiliary channel ad1 device type disk;
  ALLOCATE auxiliary CHANNEL at1 DEVICE TYPE SBT PARMS
  "SBT_LIBRARY=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/libopc.so,
  ENV=(OPC_PFILE=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/opcPS122PRD.ora)";
  duplicate database to AUXHRPRD pluggable database HRPRD, root;
}
EOF
```

```
TYPE 'SBT_TAPE' PARMS 'SBT_LIBRARY=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/libopc.so,
ENV=(OPC_PFILE=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/opcPS122PRD.ora)'
```

```
nohup rman << EOF &
connect target sys/PWD@PS122PRD
connect auxiliary /
run {
  allocate channel d1 device type disk;
  ALLOCATE CHANNEL t1 DEVICE TYPE SBT PARMS
  "SBT_LIBRARY=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/libopc.so,
  ENV=(OPC_PFILE=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/opcPS122PRD.ora)";
  allocate auxiliary channel ad1 device type disk;
  ALLOCATE auxiliary CHANNEL at1 DEVICE TYPE SBT PARMS
  "SBT_LIBRARY=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/libopc.so,
  ENV=(OPC_PFILE=/var/opt/oracle/dbaas_acfs/PS122PRD/opc/opcPS122PRD.ora)";
```



ALLoCATE auxiliary CHANNEL at2 DEVICE TYPE SBT PARMS

"SBT\_LIBRARY=/var/opt/oracle/dbaas\_acfs/PS122PRD/opc/libopc.so,  
ENV=(OPC\_PFILE=/var/opt/oracle/dbaas\_acfs/PS122PRD/opc/opcPS122PRD.ora)";

set until time "to\_date('15-NOV-2020 13:30:00','DD-MON-YYYY HH24:MI:SS')";

duplicate database to AUXHRPRD pluggable database HRPRD, root;

;

EOF

## Check TNS stanza



### To Confirm PS122PRD stanza exist in tnsnames.ora file

```
972 2020-10-07.11:21:52 .AUXHRPRD.env
973 2020-10-07.11:21:59 cd $TNS_ADMIN
974 2020-10-07.11:22:01 ls -l
975 2020-10-07.11:22:05 cat tnsnames.ora
976 2020-10-07.11:23:00 history | tail -n 30
```

```
.AUXHRPRD.env
cd $TNS_ADMIN
echo $TNS_AMDIN
cat tnsnames.ora
```

```
[oracle@aupp-hroradb-f9exx1 ~]$ .AUXHRPRD.env
[oracle@aupp-hroradb-f9exx1 ~]$ cd $TNS_ADMIN
[oracle@aupp-hroradb-f9exx1 dbaqa]$ echo $TNS_AMDIN
```

```
[oracle@aupp-hroradb-f9exx1 dbaqa]$ cat tnsnames.ora
```

```
PS122PRD =
(DESCRIPTION =
  (ADDRESS = (PROTOCOL = TCP)(HOST = bswexadbp01-rlmu8-
scan.pvtppproddb1021.phxpvtppprod.oraclevcn.com)(PORT = 1521))
  (CONNECT_DATA =
    (SERVER = DEDICATED)
    (SERVICE_NAME = PS122PRD.pvtppproddb1021.phxpvtppprod.oraclevcn.com)
  )
  (FAILOVER_MODE =
    (TYPE = select)
    (METHOD = basic)
  )
)
```

```
[oracle@bswexadbp01-rlmu81 dba_code]$ lsnrctl status | grep -i aux
-bash: lsnrctl: command not found
[oracle@bswexadbp01-rlmu81 dba_code]$ . $HOME/PS122PRD.env
[oracle@bswexadbp01-rlmu81 dba_code]$ lsnrctl status | grep -i aux
Service "8c6dab78a099741ae0530385150a018c.auxrestore" has 1 instance(s).
  Instance "AUXHRPRD", status READY, has 1 handler(s) for this service...
Service "AUXHRPRDXDB.auxrestore" has 1 instance(s).
  Instance "AUXHRPRD", status READY, has 1 handler(s) for this service...
Service "AUXHRPRD_uniq.auxrestore" has 1 instance(s).
  Instance "AUXHRPRD", status READY, has 1 handler(s) for this service...
Service "hrprd.auxrestore" has 1 instance(s).
  Instance "AUXHRPRD", status READY, has 1 handler(s) for this service...
[oracle@bswexadbp01-rlmu81 dba_code]$
```

```
[oracle@bswexadbp01-rlmu81 PS122PRD]$ head -n 10 nohup.out
```

Recovery Manager: Release 12.2.0.1.0 - Production on Tue Dec 8 12:18:07 2020

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RMAN>

connected to target database: PS122PRD (DBID=1821613799)

RMAN>

connected to auxiliary database: AUXHRPRD (not mounted)  
[oracle@bswexadbp01-r1mu81 PS122PRD]\$

[oracle@bswexadbp01-r1mu81 PS122PRD]\$ ls -l nohup.out

-rw----- 1 oracle oinstall 421618 Dec 8 15:02 nohup.out

[oracle@bswexadbp01-r1mu81 PS122PRD]\$

[oracle@bswexadbp01-r1mu81 PS122PRD]\$ pwd

/home/oracle/dba\_code/RMAN/RECOVER/PS122PRD

**New / Select Database Connection**

Connection Name	Connection Det...
ASD	sys@//autp-hro...
BI121NP	sys@//bswexa...
BI121PRD	sys@//bswexa...
CFG	sys@//autp-hro...
cmasd01	sys@//autp-hro...
cmcfg01	sys@//autp-hro...
cmdev01	sys@//autp-hro...
cmdev02	sys@//autp-hro...
cmdev03	sys@//autp-hro...
cmint01	sys@//autp-hro...
cmqa1	sys@//autp-hro...
cmsand01	sys@//autp-hro...
ctxarch	sys@//bswexa...
D1	sys@//autp-hro...
D2	sys@//autp-hro...
D3	sys@//autp-hro...
FCDB2	sys@//autp-hro...
frstprod	sys@//autp-hr...
hedbp	sys@//autp-hr...
hrasd01	sys@//autp-hro...
hrcfg01	sys@//autp-hro...
hrdel	sys@//bswexa...
hrdev	sys@//bswexa...
hrdev01	sys@//autp-hro...

Status : Success

**Name** hrprd.auxrestore **Color** [X]

**Database Type** Oracle

**User Info** Proxy User

**Authentication Type** Default

**Username** system **Role** default

**Password** [Masked] ☒ Save Password

**Connection Type** Basic

**Details** Advanced

**Hostname** bswexadbp01-r1mu81.pvtpproddb1021.phxpvtppprod.oraclevcn.com

**Port** 1521

☐ SID

☒ Service name hrprd.auxrestore

**Buttons:** Help, Save, Clear, Test, Connect, Cancel

