**RMAN RESTORE**

**DESCRIPTION**

This document explains how to restore the RMAN backup from tape to server using same DB name.

**ENV DETAILS:**

Target Server : HKLVDPAPP071

Source Server : HKLPDSS2B002 (Standby of prod database where RMAN backup

Is running)

Backup Server : HKLVIPAPP021

DB Name : POHK2CCD

PRE-REQUESTIES

1. Make sure server is identified for restore with help of PSS team
2. Get the source server,backup server and RECOVER\_POOL details from backup team.
3. Make sure the backup is successful using backup logs placed in source server under below path

“/home/oracle/log/`echo $ORACLE\_SID`\_`date +%d%m%y%H%M%S`\_Rman\_hot\_level\_0.msglog”

1. Get the required storage to perform restore and make sure ORAFRA has sufficient space to perform RMAN activity.
2. Create Pfile for target database to perform RMAN restore.

**PFILE**

Important parameter to consider for restore is db\_file\_name\_convert and log\_file\_name\_convert. PFB parameters for reference. Also attached sample pfile used for restore.

\*.db\_file\_name\_convert='+DATA\_CCD02' , '/oradata'

\*.log\_file\_name\_convert='+REDO1' , '/oraredo1' , '+REDO2', '/oraredo2'



**RESTORE**

1. Make sure change is placed to perform this activity and respective CI added to change with sufficient time frame.
2. Below details will be shared by backup team once they load the backup as clone to Pool.

EX:

NSR\_SERVER=HKLVIPAPP021

NSR\_CLIENT=HKLPDSS2B002

NSR\_RECOVER\_POOL="DC1 DB Clone DD11"

1. Login to target server using OV. If the database is already exists, please cleanup the DB before restoring. After dropping the DB, make sure space on ORADATA and ORAFRA is claimed.

export ORACLE\_SID=POHK2CCD

sqlplus /as sysdba

SQL> shu immediate

SQL> startup mount exclusive restrict;

SQL> drop database;

1. STARTUP NOMOUNT

export ORACLE\_SID=POHK2CCD

SQL> startup nomount pfile='/u01/app/oracle/local/dbs/initPOHK2CCD.ora';

Get the Control file backup piece details from backup log, which exists on source server

/home/oracle/log/`echo $ORACLE\_SID`\_`date +%d%m%y%H%M%S`\_Rman\_hot\_level\_0.msglog

1. RESTORE CONTROL FILE

export ORACLE\_SID=POHK2CCD

RMAN > Connect target /



Once control file restore is done, make sure database is in mount stage.

1. RESTORE

If the database size is huge, start the restore in nohup mode. Please find the Shell script for restore.



export ORACLE\_SID=POHK2CCD

nohup sh RMAN\_RESTORE\_SH.sh >> RMAN\_RESTORE\_LOG.log &

1. Once restore and recover is done, follow below steps

Add temp file to both PDB and CDB

CREATE TEMPORARY TABLESPACE TEMP2 TEMPFILE '/oradata/pohk2ccd\_dg/temp2\_01.dbf' SIZE 100M AUTOEXTEND ON NEXT 1024M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M;

CREATE TEMPORARY TABLESPACE TEMP2 TEMPFILE '/oradata/pohk2ccd\_dg/b186c9434c086277e0538ac7150a0ad8/temp2\_01.dbf' SIZE 100M AUTOEXTEND ON NEXT 1024M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M;

ALTER DATABASE DEFAULT TEMPORARY TABLESPACE TEMP2;

Change standby mode from maximum protection to maximum performance to open the database.

alter database set standby to maximize performance;

Open the database

SQL> alter database open;

If database open gets error, please use below steps

SQL> recover database using backup controlfile until cancel;

Cancel

SQL> alter database open resetlogs;

**INCOMPLETE RECOVERY**

If the backup is not consistent, we must do the incomplete recovery using until SCN or can be use hidden parameter (**only if oracle recommends**). Please follow below steps and open the database with resetlogs option

**UNTIL SCN**

                            Use below script to restore



**HIDDEN PARAMETER**

After restoring, use the Hidden parameter to open the database. Steps to be follow

1. After we get error, shutdown the database and add \_ALLOW\_RESETLOGS\_CORRUPTION = TRUE hidden parameter to pfile and startup the database till mount.
2. Proceed with open resetlogs
3. Once DB opened, check any files under v$recover\_file. If nothing, shutdown the DB and remove hidden parameter from pfile.
4. Startup the database and do a sanity check.
5. Export the tables