**RMAN RESTORE**

**DESCRIPTION**

This document explains how to restore the RMAN backup from tape to server.

**ENV DETAILS:**

Target Server : HKLPDSOTP003

Source Server : HKLPDSOTP003 (Standby of prod database where RMAN backup Is running)

Backup Server : XXXXX (Storage team will provide).

DB Name : TEST

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.
4. Get the required storage to perform restore and make sure ORAFRA has sufficient space to perform RMAN activity.
5. Create Pfile for target database to perform RMAN restore. Keep DB\_NAME as prod name and keep DB\_UNIQUE\_NAME as target DB name.

**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.

1. \*.db\_file\_name\_convert='’ , '’
2. \*.log\_file\_name\_convert='’, '’ , '’, '’

**RESTORE**

Nomount the TEST DB using pfile and create spfile and open using spfile.

export ORACLE\_SID=TEST\_DB

startup nomount pfile='initTEST\_DB.ora';

create spfile from pfile;

shut immediate

startup nomount

**Control File restore**

> rman target / cmdfile =test\_db\_ctrl\_restore.cmd

Recovery Manager: Release 12.2.0.1.0 - Production on

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connected to target database: XXX (not mounted)

RMAN> run

{

set dbid=XXXXXX;

allocate channel CH1 device type SBT\_TAPE;

allocate channel CH2 device type SBT\_TAPE;

SEND 'NSR\_ENV=(NSR\_SERVER=HKLVIPAPP022,NSR\_CLIENT=HKLPDSOLE004,NSR\_RECOVER\_POOL=" DC2 DB Backup DD12",NSR\_DEBUG\_LEVEL=9,NSR\_DPRINTF=TRUE,NSR\_DIAGNOSTIC\_DEST=/ora\_fra)';

set until time "to\_date(‘XXXXXXXXXXXXXXXX’,'DD/MON/YYYY HH24:MI:SS')";

restore primary controlfile from autobackup;

release channel CH1;

release channel CH2;

}

**Restore the database :-**

RMAN> run {

allocate channel CH1 device type SBT\_TAPE;

allocate channel CH2 device type SBT\_TAPE;

allocate channel CH3 device type SBT\_TAPE;

allocate channel CH4 device type SBT\_TAPE;

SEND 'NSR\_ENV=(NSR\_SERVER=HKLVIPAPP022,NSR\_CLIENT=HKLPDSOLE004,NSR\_RECOVER\_POOL=" DC2 DB Backup DD12",NSR\_DEBUG\_LEVEL=9,NSR\_DPRINTF=TRUE,NSR\_DIAGNOSTIC\_DEST=/ora\_fra)';

set until time "to\_date(‘XXXXXXXXXXXXXXXX','DD/MON/YYYY HH24:MI:SS')";

set newname for database to 'DBFILES location’;

restore database;

switch datafile all;

recover database;

}

Add temp file to both PDB and CDB

CREATE TEMPORARY TABLESPACE TEMP2 TEMPFILE 'xxx’ SIZE 100M AUTOEXTEND ON NEXT 1024M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M;

CREATE TEMPORARY TABLESPACE TEMP2 TEMPFILE 'xxxx’ 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 resetlogs;

Make sure to verify alert log and health check of the DB.