**RMAN Duplicate**

**Overview**

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| **Trigger:** | RMAN Duplicate using Active DB | | |
| **Special Permissions:** | SYS Admin | **Responsible Team:** | DB Team |
| **Config. Item:** | Database | **KB Reference:** | KB# |

**Instructions**

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| **Step #** | **Information** |
| 1. | Before starting RMAN Duplicate ensure that target database and the auxiliary database are running on same Oracle Version and target database should be in Archive log mode. |
| 2. | Create a new Pfile in ‘$ORACLE\_HOME/dbs’ or copy from target DB and change all occurrences of target DB\_name (Eg: orcl) to new DB\_name (Eg: clone). |
| 3. | After making changes to Pfile (initclone.ora), add below parameters at the end of pfile  \*.db\_file\_name\_convert='/oradata/orcl,'/oradata/clone'  \*.log\_file\_name\_convert='/logs/redolog1/orcl,'/logs/redolog1/clone','/logs/redolog2/orcl,'/logs/redolog2/clone',  '/logs/redolog3/orcl,'/logs/redolog3/clone' |
| 4. | Create necessary directories in their specified locations, the directories are:  ADUMP – ‘$ORACLE\_HOME/admin/clone/adump’  REDO LOGS – ‘/logs/redolog1/clone’, ‘/logs/redolog2/clone’, ‘/logs/redolog3/clone’  CONTROL FILES – ‘/control/ctlfile1/clone’, ‘/control/ctlfile2/clone’, ‘/control/ctlfile3/clone’  DATABASE FILES – ‘/oradata/clone’ |
| 5. | Create a new Password file using below cmd  orapwd file=orapwclone password=sys\_pwd entries=5 |
| 6. | Add TNS entries on both target and auxiliary databases at ‘$ORACLE\_HOME/network/admin/tnsnames.ora’.  orcl.example.com =  (DESCRIPTION =  (ADDRESS = (PROTOCOL = TCP) (HOST = myserver1.example.com) (PORT = 1521))  (CONNECT\_DATA =  (SERVER = DEDICATED)  (SERVICE\_NAME = orcl)  )  )  clone.example.com =  (DESCRIPTION =  (ADDRESS = (PROTOCOL = TCP) (HOST = myserver2.example.com) (PORT = 1521))  (CONNECT\_DATA =  (SERVER = DEDICATED)  (SERVICE\_NAME = clone)  )  )   * Add Listener entries in auxiliary database at ‘$ORACLE\_HOME/network/admin/listener.ora’   LISTENER =  (DESCRIPTION\_LIST =  (DESCRIPTION =  (ADDRESS = (PROTOCOL = IPC) (KEY = EXTPROC1))  (ADDRESS = (PROTOCOL = TCP) (HOST = myserver2.example.com) (PORT = 1521))  )  )  SID\_LIST\_LISTENER =  (SID\_LIST =  (SID\_DESC =  (GLOBAL\_DBNAME = clone.example.com)  (ORACLE\_HOME = /u01/app/oracle/product/11.2.0.4/db\_1)  (SID\_NAME = clone)  )  )   * Restart listener after adding entries to listener file using command - lsnrctl reload |
| 7. | Bring auxilary database to nomount state  export ORACLE\_SID=clone  sqlplus / as sysdba  STARTUP pfile='/orahome/oracle/product/11.2.0.3/db\_1/dbs/initclone.ora' NOMOUNT; |
| 8. | Connect to auxiliary RMAN and give the below command  rman target sys/sys\_pwd@orcl auxiliary sys/sys\_pwd@clone |
| 9. | In RMAN prompt allocate resources and then give duplicate command  run  {  allocate channel c1 type disk;  allocate channel c2 type disk;  allocate channel c3 type disk;  allocate channel c4 type disk;  allocate channel c5 type disk;  allocate channel c6 type disk;  allocate auxiliary channel aux type disk;  duplicate database to 'clone' from active database NOFILENAMECHECK;  release channel aux;  release channel c1;  release channel c2;  release channel c3;  release channel c4;  release channel c5;  release channel c6;  } |
| 10. | Verify the DB by bouncing once.  SHUT IMMEDIATE,  STARTUP; |

**Document Control**

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| Revision History | | | | |
| Version | **Date** | **Author** | **Title & Company** | **Description** |
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