# Database Restoration From Backup

1. Set the environment of the database that needs to be restored

oraenv ungods

1. Start the database in “nomount” mode

yngods1.oracle.ungods:$ rman “target /”

Recovery Manager: Release 11.1.0.7.0 - Production on Sat Jul 2 17:32:28 2011

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connected to target database (not started)

RMAN> startup force nomount

startup failed: ORA-01078: failure in processing system parameters

LRM-00109: could not open parameter file '/uddora/app/oracle/product/11.1.0/db\_1/dbs/initungods.ora'

starting Oracle instance without parameter file for retrieval of spfile

Oracle instance started

Total System Global Area 158662656 bytes

Fixed Size 2151848 bytes

Variable Size 83888728 bytes

Database Buffers 67108864 bytes

Redo Buffers 5513216 bytes

1. Make sure the latest backup is available in /flashback
2. Restore the “spfile” of the database using the right/latest backup

RMAN> restore spfile to pfile '/uddora/app/oracle/product/11.1.0/db\_1/dbs/initpngctm.ora' from '/flashback/rmanbkp/pngctm1/20110628-200000/autobackup/c-4221345187-20110628-00';

OR

RMAN> restore spfile from '/flashback/rmanbkp/ungods/20110630-194245/autobackup/c-1333285574-20110701-00';

Starting restore at 02-JUL-11

using target database control file instead of recovery catalog

allocated channel: ORA\_DISK\_1

channel ORA\_DISK\_1: SID=98 device type=DISK

channel ORA\_DISK\_1: restoring spfile from AUTOBACKUP /flashback/rmanbkp/ungods/20110630-194245/autobackup/c-1333285574-20110701-00

channel ORA\_DISK\_1: SPFILE restore from AUTOBACKUP complete

Finished restore at 02-JUL-11

1. Restart the database in “nomount” using the newly restored “spfile” or PFILE
2. Restore the “controlfile” of the database from the same backup piece

RMAN> restore controlfile from '/flashback/rmanbkp/ungods/20110630-194245/autobackup/c-1333285574-20110701-00';

Starting restore at 02-JUL-11

using target database control file instead of recovery catalog

allocated channel: ORA\_DISK\_1

channel ORA\_DISK\_1: SID=1308 device type=DISK

channel ORA\_DISK\_1: restoring control file

channel ORA\_DISK\_1: restore complete, elapsed time: 00:00:01

output file name=/fodsuat01\_001/oradata/ungods/control01.ctl

output file name=/fodsuat01\_001/oradata/ungods/control02.ctl

output file name=/fodsuat01\_001/oradata/ungods/control03.ctl

Finished restore at 02-JUL-11

1. Bring the database in “mount” mode

RMAN> alter database mount;

database mounted

released channel: ORA\_DISK\_1

1. Restore the database to the specified time

RMAN> run {

set until time "to\_date('01/07/2011 01:30','dd/mm/yyyy hh24:mi')";

restore database;

recover database;

};

executing command: SET until clause

Starting restore at 02-JUL-11

Starting implicit crosscheck backup at 02-JUL-11

allocated channel: ORA\_DISK\_1

channel ORA\_DISK\_1: SID=1308 device type=DISK

allocated channel: ORA\_DISK\_2

channel ORA\_DISK\_2: SID=1307 device type=DISK

allocated channel: ORA\_DISK\_3

channel ORA\_DISK\_3: SID=1306 device type=DISK

allocated channel: ORA\_DISK\_4

channel ORA\_DISK\_4: SID=1305 device type=DISK

Crosschecked 15 objects

Finished implicit crosscheck backup at 02-JUL-11

Starting implicit crosscheck copy at 02-JUL-11

using channel ORA\_DISK\_1

using channel ORA\_DISK\_2

using channel ORA\_DISK\_3

using channel ORA\_DISK\_4

Finished implicit crosscheck copy at 02-JUL-11

searching for all files in the recovery area

cataloging files...

no files cataloged

using channel ORA\_DISK\_1

using channel ORA\_DISK\_2

using channel ORA\_DISK\_3

using channel ORA\_DISK\_4

channel ORA\_DISK\_1: starting datafile backup set restore

channel ORA\_DISK\_1: specifying datafile(s) to restore from backup set

channel ORA\_DISK\_1: restoring datafile 00002 to /fodsuat01\_001/oradata/ungods/sysaux01.dbf

channel ORA\_DISK\_1: restoring datafile 00003 to /fodsuat01\_001/oradata/ungods/undotbs01.dbf

channel ORA\_DISK\_1: restoring datafile 00006 to /fodsuat01\_001/oradata/ungods/finods\_idx01.dbf

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channel ORA\_DISK\_3: restored backup piece 1

channel ORA\_DISK\_3: restore complete, elapsed time: 00:30:36

Finished restore at 02-JUL-11

Starting recover at 02-JUL-11

using channel ORA\_DISK\_1

using channel ORA\_DISK\_2

using channel ORA\_DISK\_3

using channel ORA\_DISK\_4

starting media recovery

channel ORA\_DISK\_1: starting archived log restore to default destination

channel ORA\_DISK\_1: restoring archived log

archived log thread=1 sequence=3786

channel ORA\_DISK\_1: reading from backup piece /flashback/rmanbkp/ungods/20110630-194245/backupset/hhmg73er\_1\_1

channel ORA\_DISK\_2: starting archived log restore to default destination

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archived log file name=/flashback/UNGODS/archivelog/2011\_07\_02/o1\_mf\_1\_3962\_70yocptq\_.arc RECID=1809 STAMP=755461845

archived log file name=/flashback/UNGODS/archivelog/2011\_07\_02/o1\_mf\_1\_3963\_70yokpr2\_.arc thread=1 sequence=3963

channel default: deleting archived log(s)

archived log file name=/flashback/UNGODS/archivelog/2011\_07\_02/o1\_mf\_1\_3963\_70yokpr2\_.arc RECID=1899 STAMP=755461985

archived log file name=/flashback/UNGODS/archivelog/2011\_07\_02/o1\_mf\_1\_3964\_70yocq11\_.arc thread=1 sequence=3964

channel default: deleting archived log(s)

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archived log file name=/flashback/UNGODS/archivelog/2011\_07\_02/o1\_mf\_1\_3974\_70yog629\_.arc RECID=1837 STAMP=755461902

media recovery complete, elapsed time: 00:06:35

Finished recover at 02-JUL-11

1. Open the database in “resetlogs” mode

RMAN> alter database open resetlogs;

database opened

## Renaming the database

Following steps can be used to rename the database in scenarios where UAT database is being built using the production database backup.

Assumption: in renaming database procedure below, ‘source database’ is the original database whose name is getting changed and ‘target database’ is the database after changing the name of the database.

1. Drop the target database if it exists
2. Rename the parameter file of the target database if it exists in $ORACLE\_HOME/dbs
3. Restart the source database in ‘restrict’ mode

Shutdown immediate

Startup mount restrict

1. Now, use the “nid” utility to rename the source database name to target database name

nid target='/ as sysdba' dbname=ungfin setname=YES

1. Rename the parameter file of source database to target database

mv initpngfin.ora initungfin.ora

1. Edit the parameter file renamed above and make necessary changes to parameters (like db\_name) to reflect target database
2. Create the password file for the target database

orapwd file=orapwpngpas password=xxxx entries=5

cd /uddora/app/oracle/product/11.1.0/db\_1/dbs

mv orapwungfin1 orapwungfin1\_old

$ orapwd file=orapwungfin password=manager entries=5

1. Set the environment for target database

oraenv pngpas

1. Start the target database
2. Change the passwords of ‘sys’ and ‘system’ users in the target database

alter user sys identified by xxxxx;

alter user system identified by xxxxx;

1. Create spfile for the target database

create spfile='+DATA/ungpas/spfilepngpas.ora' from pfile;

1. Rename existing ‘init’ parameter file of the target database
2. Create a new ‘init’ parameter file for the target database with only ‘spfile’ parameter

spfile='+DATA/ungpas/spfilepngpas.ora'

1. Restart the target database and make sure ‘spfile’ is used

show parameter spfile