Refresh Auxiliary DataBase From Target DataBase

\*\*\*\*05/14/2019\*\*\*\*

Clone HEPYPRD to HEPYMGR2

Cancel all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab.)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 p = to what currently in HEPYMGR2

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA p (p for the dba id being used for connecting to the aux and target databases)

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

Run these two

~~sqlplus / as sysdba~~

~~@ext\_lock\_user\_accounts.sql~~

~~@ext\_unlock\_user\_accounts.sql~~

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys p from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p<<< $'8\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p<<< $'8\ nXXXXXX\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here - May10#2019

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_14\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled above. Especially Production ones..

~~alter system set events='trace[krb.\*] disk disable, memory disable';~~

~~cd /home/oracle/tls/refresh/HEPYMGR2~~

~~@lock\_user\_accounts.sql~~

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYMGR2/May\_14\_2019

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_May\_14\_2019.sql

\*\*\*\*07/21/2019 – HEDWMGR2\*\*\*\*

Clone HEPYPRD to HEDWMGR2

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEDWPRD a236120 P = to what currently in HEDWMGR2 (if P was used before reset in HEDWMGR2 to new one and reset to that one in HEDWPRD)

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $HOME/tls/refresh/HEDWMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

Source database to be used for the refresh (target database)

HEDWPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here -

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEDWMGR2

Run these two

~~sqlplus / as sysdba~~

~~@ext\_lock\_user\_accounts.sql~~

~~@ext\_unlock\_user\_accounts.sql~~

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWMGR2

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEDWPRD to HEDWMGR2

!! get HEDWPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys:)

Logon to the database server hosting database HEDWMGR2

. oraenv

HEDWMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEDWMGR2 1575 HEDWPRD 1575 xhedwdbm21p <<< $'6\nXXXXXX\n' &

nohup ./clone\_db.sh HEDWMGR2 1575 HEDWPRD 1575 xhedwdbm21p <<< $'6\ nXXXXXX\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEDWMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWMGR2\_ XHEDWDBW26D

How to restore dropped database in case clone did not work

--Add HEDWMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $HOME/tls/refresh/HEDWMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here - July11#2019

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

July\_11\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEDWMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

cd /home/oracle/tls/refresh/HEDWMGR2/July\_11\_2019

sqlplus / as sysdba

@HEDWMGR2\_unlock\_user\_accounts\_July\_11\_2019.sql

~~When the data masking is complete, we’ll need to unlock the users using the unlock script.~~

~~cd /home/oracle/tls/refresh/HEPYMGR2/July\_11\_2019~~

~~sqlplus / as sysdba~~

~~@HEPYMGR2\_unlock\_user\_accounts\_May\_14\_2019.sql~~

\*\*\*\*07/12/2019 – HEPYMGR2\*\*\*\*

Clone HEPYPRD to HEPYMGR2

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here -

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

Run these two

~~sqlplus / as sysdba~~

~~@ext\_lock\_user\_accounts.sql~~

~~@ext\_unlock\_user\_accounts.sql~~

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR22\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here -

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jul\_12\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

cd /home/oracle/tls/refresh/HEPYMGR2/July\_12\_2019

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_July\_12\_2019.sql

~~When the data masking is complete, we’ll need to unlock the users using the unlock script.~~

~~cd /home/oracle/tls/refresh/HEPYMGR2/July\_11\_2019~~

~~sqlplus / as sysdba~~

~~@HEPYMGR2\_unlock\_user\_accounts\_May\_14\_2019.sql~~

\*\*\*\*08/19/2019 – HEPYMGR\*\*\*\*

Clone HEPYMGR2 to HEPYMGR

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMGR2 a236120 P = to what currently in HEPYMGR (if P was used before reset in HEPYMGR to new one and reset to that one in HEPYMGR2)

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

Source database to be used for the refresh (target database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here -

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMGR2 to HEPYMGR

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR

. oraenv

HEPYMGR

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d 600 <<< $'4\nXXXXXX\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYMGR\_XHEPYDBW25D

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here -

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Aug\_19\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

--When they ask to unlock user accounts

~~cd /home/oracle/tls/refresh/HEPYMGR/~~

~~sqlplus / as sysdba~~

~~@ext\_unlock\_user\_accounts.sql~~

~~--Double check location and name of script which was generated above.~~

~~cd /home/oracle/tls/refresh/HEPYMGR/Aug\_19\_2019~~

~~sqlplus / as sysdba~~

~~@HEPYMGR\_unlock\_user\_accounts\_Aug\_19\_2019.sql~~

\*\*\*\*08/26/2019 – HEPYMGR2 from HEPYPRD\*\*\*\*

Clone HEPYPRD to HEPYMGR2

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here -

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

Run these two

~~sqlplus / as sysdba~~

~~@ext\_lock\_user\_accounts.sql~~

~~@ext\_unlock\_user\_accounts.sql~~

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR22\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here -

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Aug\_26\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYMGR2/Aug\_26\_2019

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_Aug\_26\_2019.sql

\*\*\*\*09/17/2019 – HEPYMGR2 from HEPYPRD\*\*\*\*

Clone HEPYPRD to HEPYMGR2

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here -

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

Run these two

~~sqlplus / as sysdba~~

~~@ext\_lock\_user\_accounts.sql~~

~~@ext\_unlock\_user\_accounts.sql~~

• Drop Auxiliary DataBase

Change rman retention policy to 30 days

rmanc

CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. ~~You’ll want to respond schedule to the rman/tsm cleanup prompt.~~

Do not schedule the backup cleanup script when dropping the existing database (reply N to the prompt). The cleanup script can be run manually after the 30 day period is up. I will look to add functionality to the drop database script to enable you to specify when you want the backup cleanup to execute or just make it 30 days by default. It will be included in a future standard build release.

drop\_database.sh HEPYMGR2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR22\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Sep\_17\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYMGR2/Sep\_17\_2019

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_Sep\_17\_2019.sql

\*\*\*\*10/03/2019 – HEPYMGR2 from HEPYPRD\*\*\*\*

Clone HEPYPRD to HEPYMGR2

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

Change rman retention policy to 30 days if not already there

rmanc

CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. ~~You’ll want to respond schedule to the rman/tsm cleanup prompt.~~

Do not schedule the backup cleanup script when dropping the existing database (reply N to the prompt). The cleanup script can be run manually after the 30 day period is up. I will look to add functionality to the drop database script to enable you to specify when you want the backup cleanup to execute or just make it 30 days by default. It will be included in a future standard build release.

drop\_database.sh HEPYMGR2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR22\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Oct\_03\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYMGR2/Oct\_03\_2019

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_Oct\_03\_2019.sql

\*\*\*\*10/07/2019 – HEPYQA2 from HEPYUAT – from TAPE

Clone HEPYQA2 from HEPYUAT

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

**Make sure following scripts present on HEPYQA2 side**

**clone\_db\_fr\_tape.sh and duplicate\_HEPYUAT\_fr\_tape.rman (if not copy clone\_db\_fr\_tape.sh from another server and no changes needed. And copy duplicate\_xxx\_fr\_tape.rman from another server and rename and make appropriate changes.**

**On HEPYUAT side**

**Make sure good Level0 completed prior and good Level1 + archivelog backup.**

**As an example If last archivelog backup scheduled for 4:05 PM use 4:02 PM in until clause of duplicate\_HEPYUAT\_fr\_tape.rman**

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA2 a236120 P = to what currently in HEPYUAT (if P was used before reset to new one)

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Source database to be used for the refresh (target database)

HEPYUAT

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA2

None Prod sys:

• Update RMAN duplication script to reflect duplication ‘until time’ and current dbid of HEPYUAT

vi duplicate\_HEPYUAT\_fr\_tape.rman

duplicate database HEPYUAT dbid 3326904023 to HEPYQA2

until time "TO\_DATE('10/07/2019 09:01:00', 'MM/DD/YYYY HH24:MI:SS')"

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA2 from HEPYUAT

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYQA2

. oraenv

HEPYQA2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

~~nohup ./clone\_db.sh HEPYQA2 1578 HEPYUAT 1572 xhepydbwu21q <<< $'6\~~ nXXXXXX ~~\n' &~~

nohup ./clone\_db\_fr\_tape.sh HEPYQA2 1578 HEPYUAT 1572 xhepydbwu21q <<< $'6\ nXXXXXX \n' &

~~channel t2: ORA-19870: error while restoring backup piece arucbrmn\_1\_1~~

~~ORA-19501: read error on file "arucbrmn\_1\_1", block number 196097 (block size=512)~~

~~ORA-27190: skgfrd: sbtread2 returned error~~

~~ORA-19511: non RMAN, but media manager or vendor specific failure, error text:~~

~~ANS1314E (RC14) File data currently unavailable on server~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA2/rman

tail -f xxxx

login to sqlplus/ as sysdba

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and

opname NOT LIKE '%aggregate%'

and opname like 'RMAN%';

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA2\_XHEPYDBW22Q

How to restore dropped database in case clone did not work

--Add HEPYQA2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

after you run the pre-cone

clone

cd Mon\_DD\_YYYY

grep -i sandbox \*

and see what we get we may need remove stuff or change schema.

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Oct\_07\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

--When they ask to unlock user accounts

~~cd /home/oracle/tls/refresh/HEPYMGR/~~

~~sqlplus / as sysdba~~

~~@ext\_unlock\_user\_accounts.sql~~

~~--Double check location and name of script which was generated above.~~

~~cd /home/oracle/tls/refresh/HEPYMGR/Aug\_19\_2019~~

~~sqlplus / as sysdba~~

~~@HEPYMGR\_unlock\_user\_accounts\_Aug\_19\_2019.sql~~

\*\*\*\*10/10/2019 – HEPYQA from HEPYQA2

Clone HEPYQA from HEPYQA2

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA a236120 P = to what currently in HEPYQA2 (if P was used before reset to new one)

AU A236120

I BY "Oct10#2019"

/

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

Source database to be used for the refresh (target database)

HEPYQA2

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Standby Auxiliary DataBase

Logon to the database server hosting Standby database HEPYQA (xhepydbm21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys:

usRX$8JR (for DB with Standby get sys P from TPAM)

• Drop Primary Auxiliary DataBase

Logon to the database server hosting Primary database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys:

(for DB with Standby get sys P from TPAM)

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA from HEPYQA2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys:)

Logon to the database server hosting database HEPYQA

. oraenv

HEPYQA

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA 1559 HEPYQA2 1578 xhepydbw22q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA\_XHEPYDBW21Q

How to restore dropped database in case clone did not work

--Add HEPYQA entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Oct\_10\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

--When they ask to unlock user accounts

~~cd /home/oracle/tls/refresh/HEPYMGR/~~

~~sqlplus / as sysdba~~

~~@ext\_unlock\_user\_accounts.sql~~

~~--Double check location and name of script which was generated above.~~

~~cd /home/oracle/tls/refresh/HEPYMGR/Aug\_19\_2019~~

~~sqlplus / as sysdba~~

~~@HEPYMGR\_unlock\_user\_accounts\_Aug\_19\_2019.sql~~

\*\*\*\*10/29/2019 – HEPYMGR2 from HEPYPRD\*\*\*\*

Clone HEPYPRD to HEPYMGR2

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys:)

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR22\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Oct\_29\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYMGR2/Oct\_03\_2019

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_Oct\_29\_2019.sql

\*\*\*\*12/27/2019 – HEPYSTS from HEPYUAT\*\*\*\*

Clone HEPYSTS from HEPYUAT

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYSTS entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYUAT a236120 P = to what currently in HEPYSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEPYUAT)

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Source database to be used for the refresh (target database)

HEPYUAT

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYSTS

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYSTS

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEPYUAT to HEPYSTS

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys:)

Logon to the database server hosting database HEPYSTS

. oraenv

HEPYSTS

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYSTS 1572 HEPYUAT 1572 xhepydbwu21q <<< $'4\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYSTS\_XHEPYDBW21S

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYSTS restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Dec\_27\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

~~DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYSTS/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYSTS/Dec\_27\_2019

sqlplus / as sysdba

@HEPYSTS\_unlock\_user\_accounts\_Dec\_27\_2019.sql

\*\*\*\*12/27/2019 – HEDWSTS from HEDWUAT\*\*\*\*

Clone HEDWSTS from HEDWUAT

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWSTS entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEDWUAT a236120 P = to what currently in HEDWSTS (if P was used before reset in HEDWSTS to new one and reset to that one in HEDWUAT)

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

Source database to be used for the refresh (target database)

HEDWUAT

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEDWSTS

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWSTS

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEDWUAT to HEDWSTS

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys:)

Logon to the database server hosting database HEDWSTS

. oraenv

HEDWSTS

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEDWSTS 1573 HEDWUAT 1573 xhedwdbwu21q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEDWSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWSTS\_XHEDWDBW21S

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWSTS restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Dec\_27\_2019

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

~~DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEDWSTS/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEDWSTS/Dec\_27\_2019

sqlplus / as sysdba

@HEDWSTS\_unlock\_user\_accounts\_Dec\_27\_2019.sql

\*\*\*\*01/30/2020 – HEPYDEV2 from HEPYDEV3 \*\*\*\*

Clone HEPYDEV2 from HEPYDEV3

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYDEV2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYDEV3 a236120 P = to what currently in HEPYDEV2 (if P was used before reset in HEPYDEV2 to new one and reset to that one in HEPYDEV3)

Logon to the database server hosting database HEPYDEV2 (xhepydbw22d)

. oraenv

HEPYDEV2

cd $HOME/tls/refresh/HEPYDEV2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYDEV2

Source database to be used for the refresh (target database)

HEPYDEV3

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Jan30#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYDEV2

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYDEV2 (xhepydbw22d)

. oraenv

HEPYDEV2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYDEV2

None Prod sys: get from TPAM

• Clone Target Database to Auxiliary DataBase

Clone HEPYDEV2 from HEPYDEV3

!! get HEPYPRD, HEPYDEV2, HEPYDEV3 sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod except above None Prod sys:)

Logon to the database server hosting database HEPYDEV2

. oraenv

HEPYDEV2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYDEV2 1552 HEPYDEV3 1556 xhepydbw23d <<< $'4\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYDEV2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYDEV2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYDEV2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYDEV2\_XHEPYDBW22D

How to restore dropped database in case clone did not work

--Add HEPYDEV2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYDEV2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYDEV2 (xhepydbw22d)

. oraenv

HEPYDEV2

cd $HOME/tls/refresh/HEPYDEV2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYDEV2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jan\_30\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

~~DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYDEV2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYDEV2/Jan\_30\_2020

sqlplus / as sysdba

@HEPYSTS\_unlock\_user\_accounts\_Jan\_30\_2020.sql

\*\*\*\*02/06/2020 – HEPYMGR2 from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys:)

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Feb\_06\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYMGR2/Feb\_06\_2020

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_Feb\_06\_2020.sql

!! Just in case Prod still under old Oracle Home. Apply latest PSU back to MGR2

cd $SCRIPTS

./patch\_db.sh 12.1.0.2.200114 HEPYMGR2

CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u01/datapump'

/

\*\*\*\*02/08/2020 – HEPYMGR from HEPYMGR2 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMGR2 a236120 P = to what currently in HEPYMGR (if P was used before reset in HEPYMGR to new one and reset to that one in HEPYMGR2)

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

Source database to be used for the refresh (target database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEPYMGR2 to HEPYMGR

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys:)

Logon to the database server hosting database HEPYMGR

. oraenv

HEPYMGR

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYMGR\_XHEPYDBW25D

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Feb\_08\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

--When they ask to unlock user accounts

~~cd /home/oracle/tls/refresh/HEPYMGR/~~

~~sqlplus / as sysdba~~

~~@ext\_unlock\_user\_accounts.sql~~

~~--Double check location and name of script which was generated above.~~

~~cd /home/oracle/tls/refresh/HEPYMGR/Aug\_19\_2019~~

~~sqlplus / as sysdba~~

~~@HEPYMGR\_unlock\_user\_accounts\_Aug\_19\_2019.sql~~

\*\*\*\*02/24/2020 – HEPYMASK from HEPYPRD Standby \*\*\*\*

!! clone from Standby did not work. Proceeded with clone from Primary!!!

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMASK (if P was used before reset in HEPYMASK to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/tls/refresh/HEPYMASK

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here –

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMASK

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys:

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD Standby to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMASK

. oraenv

HEPYMASK

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'6\nXXX\n' &~~

nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p <<< $'6\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Feb\_24\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

rmanc

CONFIGURE DEVICE TYPE 'SBT\_TAPE' PARALLELISM 4 BACKUP TYPE TO BACKUPSET;

select \* from aedba.rman\_heartbeat order by 2

Lock all N and A accounts expect Tom and I and few others that they tell you

\*\*\*\*04/13/2020 – HEPYMGR2 from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Apr07#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nboGW#5qx\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Apr07#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Apr\_13\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

XYZbyHE#15Apr

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYMG2/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYMGR2/Feb\_06\_2020

sqlplus / as sysdba

@HEPYMGR2\_unlock\_user\_accounts\_Feb\_06\_2020.sql

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU back to MGR2~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 12.1.0.2.200114 HEPYMGR2~~

~~CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u01/datapump'~~

~~/~~

\*\*\*\*05/04/2020 – HEPYSTS from HEPYQA3 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYSTS entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA3 a236120 P = to what currently in HEPYSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEPYQA3)

AU A236120

I BY "Apr07#2020"

/

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Source database to be used for the refresh (target database)

HEPYQA3

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Apr07#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYSTS

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYSTS

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYSTS from HEPYQA3

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYSTS

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYSTS 1572 HEPYQA3 1572 xhepydbw23q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYSTS\_XHEPYDBW21S

How to restore dropped database in case clone did not work

--Add HEPYSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYSTS restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Apr07#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_04\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

~~DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYSTS/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYSTS/May\_04\_2020

sqlplus / as sysdba

@HEPYSTS\_unlock\_user\_accounts\_May\_04\_2020.sql

XYZbyHE#04May

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU back to MGR2~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 12.1.0.2.200114 HEPYMGR2~~

~~CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u01/datapump'~~

~~/~~

\*\*\*\*05/11/2020 – HEPYMASK from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMASK (if P was used before reset in HEPYMASK to new one and reset to that one in HEPYPRD)

AU A236120

I BY "May12#2020"

/

~~Logon to the database server hosting database HEPYMASK (xhepydbm21q)~~

~~. oraenv~~

~~HEPYMASK~~

~~cd $HOME/tls/refresh/HEPYMASK~~

~~./clone\_pre\_steps.sh~~

~~The script will prompt for the following information:~~

~~Database to be refreshed (auxiliary database)~~

~~HEPYMASK~~

~~Source database to be used for the refresh (target database)~~

~~HEPYPRD~~

~~DBA ID (dba id to be used for connecting to the aux and target databases)~~

~~A236120~~

~~DBA P (P for the dba id being used for connecting to the aux and target databases)~~

~~enter\_P\_here – Feb24#2020~~

~~Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run~~

~~all steps in the script. Specify a number other than 1 if the script is being run again due to an error~~

~~and you want to start at the failed step number).~~

~~1~~

~~The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.~~

~~cd /home/oracle/tls/refresh/HEPYMASK~~

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'6\nXXX\n' &~~

nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p <<< $'4\naiSK\*2pQ\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/tls/refresh/HEPYMASK

~~./clone\_post\_steps.sh~~

~~The script will prompt for the following information:~~

~~Database to be refreshed (auxiliary database)~~

~~HEPYMASK~~

~~DBA ID (dba id to be used for connecting to the aux database)~~

~~A236120~~

~~DBA P (P for the dba id being used for connecting to the aux and target databases)~~

~~enter p here – Feb24#2020~~

~~Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)~~

~~Feb\_24\_2020~~

~~Mon\_xx\_XXXX~~

~~Note: This directory resides under the directory where this script resides.~~

~~Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run~~

~~all steps in the script. Specify a number other than 1 if the script is being run again due to an error~~

~~and want to start at the failed step number).~~

~~1~~

~~The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.~~

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

sqlplus / as sysdba

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

exit

cd $HOME/tls/refresh/HEPYMASK

sqlplus / as sysdba

rm \*.out \*.log

@create\_OPTIM\_user.sql

@create\_OPTIM\_role.sql

@create\_indexes.sql

AU sys

I BY "zyz99999"

/

~~optim\_role\_grants.sql~~

@lock\_users\_fromProd.sql - Check if some A/N users still not zyz. New Prod users may not in this list. Lock them manually after

rmanc

CONFIGURE DEVICE TYPE 'SBT\_TAPE' PARALLELISM 4 BACKUP TYPE TO BACKUPSET;

quit

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*05/27/2020 – HEPYQA (Primary) from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA a236120 P = to what currently in HEPYMASK (if P was used before reset in HEPYQA to new one and reset to that one in HEPYMASK)

AU A236120

I BY "May12#2020"

/

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – May12#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys: ~~zyz99999~~ glPK+4gk

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA from HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYQA

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA 1559 HEPYMASK 1530 xhepydbm21q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYQA\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA\_XHEPYDBW21Q

How to restore dropped database in case clone did not work

--Add HEPYSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – May12#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_27\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

~~DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*06/01/2020 – Save and DROP HEPYMASK \*\*\*\*

Create Restore point before drop.

cd /home/oracle/tls/rman

./create\_restore\_point\_new.sh HEPYMASK B4DropJUN012020

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM) – Suspended on June 1 2020

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

\*\*\*\*06/29/2020 – HEPYMGR2 from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "June29#2020"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – June29#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nzeCK\*6No\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – June29#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jun\_29\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*07/16/2020 – HEPYUAT from HEPYQA \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYUAT entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA a236120 P = to what currently in HEPYUAT (if P was used before reset in HEPYUAT to new one and reset to that one in HEPYQA)

AU A236120

I BY "Jul16#2020"

/

Logon to the database server hosting database HEPYUAT (xhepydbwu21q)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYUAT

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYUAT

Source database to be used for the refresh (target database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux and target databases)

Enter Schema Owner (e.g. PROD)

PROD

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Jul16#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYUAT

• Drop Auxiliary DataBase

~~Change rman retention policy to 30 days if not already there~~

~~rmanc~~

~~CONFIGURE RETENTION POLICY TO RECOVERY WINDOW OF 30 DAYS;~~

Logon to the database server hosting database HEPYUAT (xhepydbwu21q)

. oraenv

HEPYUAT

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYUAT

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYUAT from HEPYQA

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYUAT

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYUAT 1572 HEPYQA 1559 xhepydbw21q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYUAT

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYUAT/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYUAT\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYUAT\_XHEPYDBWU21Q

How to restore dropped database in case clone did not work

--Add HEPYSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYUAT restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYUAT (xhepydbwu21q)

. oraenv

HEPYUAT

cd $HOME/tls/refresh/HEPYUT

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYUAT

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Jul15#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jul\_16\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

~~DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

select \* from aedba.rman\_heartbeat order by 2

--When they ask to unlock user accounts

cd /home/oracle/tls/refresh/HEPYUAT/

sqlplus / as sysdba

@ext\_unlock\_user\_accounts.sql

--Double check location and name of script which was generated above.

When the data masking is complete, we’ll need to unlock the users using the unlock script.

cd /home/oracle/tls/refresh/HEPYUAT/July\_16\_2020

sqlplus / as sysdba

@HEPYUAT\_unlock\_user\_accounts\_July\_16\_2020.sql

\*\*\*\*07/27/2020 – HEPYMGR from HEPYMGR2 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMGR2 a236120 P = to what currently in HEPYMGR (if P was used before reset in HEPYMGR to new one and reset to that one in HEPYMGR2)

AU A236120

I BY "Jul27#2020"

/

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

Source database to be used for the refresh (target database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

Enter Schema Owner (e.g. PROD)

PROD

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Jul27#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMGR2 to HEPYMGR

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR

. oraenv

HEPYMGR

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYMGR\_XHEPYDBW25D

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Jul27#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jul\_27\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone and uncomment crontab jobs.

\*\*\*\*08/10/2020 – HEPYMASK from HEPYPRD \*\*\*\*

!! If HEPYQA Standby exist on xhepydbm21q drop it first.

Logon to the database server hosting database HEPYQA (xhepydbm21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys: zyz99999

If this HEPYQA Primary or Standby get P from TPAM

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

~~!! reset HEPYPRD a236120 P = to what currently in HEPYMASK (if P was used before reset in HEPYMASK to new one and reset to that one in HEPYPRD)~~

~~AU A236120~~

~~I BY "May12#2020"~~

~~/~~

~~Logon to the database server hosting database HEPYMASK (xhepydbm21q)~~

~~. oraenv~~

~~HEPYMASK~~

~~cd $HOME/tls/refresh/HEPYMASK~~

~~./clone\_pre\_steps.sh~~

~~The script will prompt for the following information:~~

~~Database to be refreshed (auxiliary database)~~

~~HEPYMASK~~

~~Source database to be used for the refresh (target database)~~

~~HEPYPRD~~

~~DBA ID (dba id to be used for connecting to the aux and target databases)~~

~~A236120~~

~~DBA P (P for the dba id being used for connecting to the aux and target databases)~~

~~enter\_P\_here – Feb24#2020~~

~~Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run~~

~~all steps in the script. Specify a number other than 1 if the script is being run again due to an error~~

~~and you want to start at the failed step number).~~

~~1~~

~~The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.~~

~~cd /home/oracle/tls/refresh/HEPYMASK~~

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'6\nXXX\n' &~~

nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p <<< $'4\nxmXH?8aa\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

~~cd $HOME/tls/refresh/HEPYMASK~~

~~./clone\_post\_steps.sh~~

~~The script will prompt for the following information:~~

~~Database to be refreshed (auxiliary database)~~

~~HEPYMASK~~

~~DBA ID (dba id to be used for connecting to the aux database)~~

~~A236120~~

~~DBA P (P for the dba id being used for connecting to the aux and target databases)~~

~~enter p here – Feb24#2020~~

~~Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)~~

~~Feb\_24\_2020~~

~~Mon\_xx\_XXXX~~

~~Note: This directory resides under the directory where this script resides.~~

~~Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run~~

~~all steps in the script. Specify a number other than 1 if the script is being run again due to an error~~

~~and want to start at the failed step number).~~

~~1~~

~~The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.~~

Below part of post script…

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

rmanc

CONFIGURE DEVICE TYPE 'SBT\_TAPE' PARALLELISM 4 BACKUP TYPE TO BACKUPSET;

quit

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

!! Double check if not in place do that

alter system set sga\_max\_size=64G scope=spfile;

alter system set sga\_target=64G scope=spfile;

alter system set pga\_aggregate\_target=16G scope=spfile;

srvctl stop database -d HEPYMASK\_xhepydbm21q

srvctl start database -d HEPYMASK\_xhepydbm21q

~~DROP TABLESPACE UNDOTBS2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS~~

~~/~~

~~sqlplus / as sysdba~~

~~@?/rdbms/admin/utlrp.sql~~

~~select count(\*)~~

~~from dba\_objects~~

~~where status = 'INVALID';~~

~~@change\_sys\_P.sql~~

~~exit~~

cd $HOME/tls/refresh/HEPYMASK

rm \*.out \*.log

sqlplus / as sysdba

@post\_clone.sql

~~sqlplus / as sysdba~~

~~@create\_OPTIM\_user.sql~~

~~@create\_OPTIM\_role.sql~~

~~@create\_indexes.sql~~

~~@ext\_lock\_user\_accounts.sql~~

~~@HEPYMASK\_lock\_user\_accounts.sql~~

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there add them. Schedule archivelog job every

30 min.

Uncomment crontab jobs

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*08/17/2020 – HEPYMGR2 from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

Asmcmd

…

rm -r 2020\_08\_18/

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "Aug17#2020"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Aug17#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nxmXH?8aa\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Aug17#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Aug\_17\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

!! Just in case Prod still under old Oracle Home. Apply latest PSU back to MGR2

cd $SCRIPTS

./patch\_db.sh 12.1.0.2.200414 HEPYMGR2

CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u01/datapump'

/

select \* from aedba.rman\_heartbeat order by 2

xx

\*\*\*\*08/17/2020 – HEDWMGR2 from HEDWPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

Asmcmd

…

rm -r 2020\_08\_18/

• Run script prior to clone refresh. (See script for details).

!! reset HEDWPRD a236120 P = to what currently in HEDWMGR2 (if P was used before reset in HEDWMGR2 to new one and reset to that one in HEDWPRD)

AU A236120

I BY "Aug17#2020"

/

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $HOME/tls/refresh/HEDWMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

Source database to be used for the refresh (target database)

HEDWPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Aug17#2020

Enter Schema Owner (e.g. PROD\_DW)

PROD\_DW

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEDWMGR2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWMGR2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEDWPRD to HEDWMGR2

!! get HEDWPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEDWMGR2

. oraenv

HEDWMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEDWMGR2 1575 HEDWPRD 1575 xhedwdbm21p 600 <<< $'4\nnlRP$7Yu\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEDWMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWMGR2\_XHEDWDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $HOME/tls/refresh/HEDWMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

Enter Schema Owner (e.g. PROD\_DW)

PROD\_DW

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Aug17#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Aug\_17\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

!! Just in case Prod still under old Oracle Home. Apply latest PSU back to MGR2

cd $SCRIPTS

./patch\_db.sh 12.1.0.2.200414 HEDWMGR2

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*08/26/2020 – HEPYQA2 from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMASK a236120 P = to what currently in HEPYQA2 (if P was used before reset in HEPYQA2 to new one and reset to that one in HEPYMASK)

AU A236120

I BY "Aug26#2020"

/

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Aug26#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYQA2

. oraenv

HEPYQA2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA2 1578 HEPYMASK 1530 xhepydbm21q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA2\_XHEPYDBW22Q

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Aug26#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Aug\_26\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

\*\*\*\*11/10/2020 – HEPYMASK from HEPYPRD \*\*\*\*

!! If HEPYQA Standby exist on xhepydbm21q drop it first.

Logon to the database server hosting database HEPYQA (xhepydbm21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys:

If this HEPYQA Primary or Standby get P from TPAM

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

~~!! reset HEPYPRD a236120 P = to what currently in HEPYMASK (if P was used before reset in HEPYMASK to new one and reset to that one in HEPYPRD)~~

~~AU A236120~~

~~I BY "May12#2020"~~

~~/~~

~~Logon to the database server hosting database HEPYMASK (xhepydbm21q)~~

~~. oraenv~~

~~HEPYMASK~~

~~cd $HOME/tls/refresh/HEPYMASK~~

~~./clone\_pre\_steps.sh~~

~~The script will prompt for the following information:~~

~~Database to be refreshed (auxiliary database)~~

~~HEPYMASK~~

~~Source database to be used for the refresh (target database)~~

~~HEPYPRD~~

~~DBA ID (dba id to be used for connecting to the aux and target databases)~~

~~A236120~~

~~DBA P (P for the dba id being used for connecting to the aux and target databases)~~

~~enter\_P\_here – Feb24#2020~~

~~Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run~~

~~all steps in the script. Specify a number other than 1 if the script is being run again due to an error~~

~~and you want to start at the failed step number).~~

~~1~~

~~The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.~~

~~cd /home/oracle/tls/refresh/HEPYMASK~~

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: zyz99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

--from HEPYPRD Standby

nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'6\nkgRN+7vf\n' &

--from HEPYPRD Primary

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p <<< $'4\nxmXH?8aa\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

!!! This script never been tested.

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/HEPYMASK/refresh

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Sep11#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

OR

Below part of post script…

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

rmanc

CONFIGURE DEVICE TYPE 'SBT\_TAPE' PARALLELISM 4 BACKUP TYPE TO BACKUPSET;

quit

!! Double check if not in place do that

show parameter sga\_max\_size

show parameter sga\_target

show parameter pga\_aggregate\_target

alter system set sga\_max\_size=64G scope=spfile;

alter system set sga\_target=64G scope=spfile;

alter system set pga\_aggregate\_target=16G scope=spfile;

srvctl stop database -d HEPYMASK\_xhepydbm21q

srvctl start database -d HEPYMASK\_xhepydbm21q

~~sqlplus / as sysdba~~

~~@?/rdbms/admin/utlrp.sql~~

~~select count(\*)~~

~~from dba\_objects~~

~~where status = 'INVALID';~~

~~@change\_sys\_P.sql~~

~~exit~~

cd $HOME/tls/refresh/HEPYMASK

rm \*.out \*.log

sqlplus / as sysdba

@post\_clone.sql

~~sqlplus / as sysdba~~

~~@create\_OPTIM\_user.sql~~

~~@create\_OPTIM\_role.sql~~

~~@create\_indexes.sql~~

~~@ext\_lock\_user\_accounts.sql~~

~~@HEPYMASK\_lock\_user\_accounts.sql~~

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there add them. Schedule archivelog job every

30 min.

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

\*\*\*\*11/13/2020 – HEPYUAT from HEPYQA2 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity

(Comment out HEPYUAT entries in crontab and suspend Backup jobs in OEM)

!! reset HEPYQA a236120 P = to what currently in HEPYUAT (if P was used before reset in HEPYUAT to new one and reset to that one in HEPYQA2)

• Run script prior to clone refresh. (See script for details).

Logon to the database server hosting database HEPYUAT (xhepydbwu21q)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYUAT

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYUAT

Source database to be used for the refresh (target database)

HEPYQA2

DBA ID (dba id to be used for connecting to the aux and target databases)

Enter Schema Owner (e.g. PROD)

PROD

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYUAT

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYUAT (xhepydbwu21q)

. oraenv

HEPYUAT

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYUAT

None Prod sys: zyz99999

asmcmd

cd FLASH\_01/

cd HEPYUAT\_XHEPYDBWU21Q/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_07\_20/

• Clone Target Database to Auxiliary DataBase

Clone HEPYUAT from HEPYQA2

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYUAT

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYUAT 1572 HEPYQA2 1578 xhepydbw22q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYUAT

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYUAT/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYUAT\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYUAT\_XHEPYDBWU21Q

How to restore dropped database in case clone did not work

--Add HEPYUAT entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYUAT restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYUAT (xhepydbwu21q)

. oraenv

HEPYUAT

cd $HOME/tls/refresh/HEPYUAT

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYUAT

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here –

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Nov\_13\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*11/30/2020 – HEPYMGR2 from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "Nov12#2020"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_08\_18/

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

--from Primary

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nxmXH?8aa\n' &

--from Standby

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'6\nvkWN%1hG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Aug17#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Nov\_30\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

!! Just in case Prod still under old Oracle Home. Apply latest PSU back to MGR2

~~cd $SCRIPTS~~

~~./patch\_db.sh 12.1.0.2.200414 HEPYMGR2~~

CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u01/datapump'

/

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*12/09/2020 – HEPYQA3 from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA3 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMASK a236120 P = to what currently in HEPYQA3 (if P was used before reset in HEPYQA3 to new one and reset to that one in HEPYMASK)

AU A236120

I BY "Nov12#2020"

/

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Source database to be used for the refresh (target database)

HEPYMASK

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Nov12#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA3

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA3

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA3

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYQA3

. oraenv

HEPYQA3

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA3 1572 HEPYMASK 1530 xhepydbm21q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA3

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA3/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA3\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA3\_XHEPYDBW23Q

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA3 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Nov12#2020

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Dec\_09\_2020

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

\*\*\*\*02/02/2021 – HEPYSTS from HEPYQA3 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYSTS entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA3 a236120 P = to what currently in HEPYSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEPYQA3)

~~AU A236120~~

~~I BY "Apr07#2020"~~

~~/~~

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Source database to be used for the refresh (target database)

HEPYQA3

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYSTS

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYSTS

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYSTS from HEPYQA3

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYSTS

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYSTS 1572 HEPYQA3 1572 xhepydbw23q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYSTS\_XHEPYDBW21S

How to restore dropped database in case clone did not work

--Add HEPYSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYSTS restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Feb\_02\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*02/15/2021 – HEPYMASK from HEPYPRD \*\*\*\*

!! If HEPYQA Standby exist on xhepydbm21q drop it first.

Logon to the database server hosting database HEPYQA (xhepydbm21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say YES to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys:

If this HEPYQA Primary or Standby get P from TPAM

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM – **if any exist**)

~~• Run script prior to clone refresh. (See script for details).~~

~~!! reset HEPYPRD a236120 P = to what currently in HEPYMASK (if P was used before reset in HEPYMASK to new one and reset to that one in HEPYPRD)~~

~~AU A236120~~

~~I BY "May12#2020"~~

~~/~~

~~Logon to the database server hosting database HEPYMASK (xhepydbm21q)~~

~~. oraenv~~

~~HEPYMASK~~

~~cd $HOME/tls/refresh/HEPYMASK~~

~~./clone\_pre\_steps.sh~~

~~The script will prompt for the following information:~~

~~Database to be refreshed (auxiliary database)~~

~~HEPYMASK~~

~~Source database to be used for the refresh (target database)~~

~~HEPYPRD~~

~~DBA ID (dba id to be used for connecting to the aux and target databases)~~

~~A236120~~

~~DBA P (P for the dba id being used for connecting to the aux and target databases)~~

~~enter\_P\_here – Feb24#2020~~

~~Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run~~

~~all steps in the script. Specify a number other than 1 if the script is being run again due to an error~~

~~and you want to start at the failed step number).~~

~~1~~

~~The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.~~

~~cd /home/oracle/tls/refresh/HEPYMASK~~

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: zyz99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

--from HEPYPRD Standby

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'6\nkgRN+7vf\n' &~~

nohup ./clone\_dbskiptbs.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'6\nkgRN+7vf\n' &

--from HEPYPRD Primary

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p <<< $'4\nxmXH?8aa\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

!!! This script never been tested.

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/HEPYMASK/refresh

AU A236120

I BY "Dec10#2020"

/

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Dec10#2020

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

OR

Below part of post script…

DROP TABLESPACE TEMP2 INCLUDING CONTENTS AND DATAFILES CASCADE CONSTRAINTS

/

rmanc

CONFIGURE DEVICE TYPE 'SBT\_TAPE' PARALLELISM 4 BACKUP TYPE TO BACKUPSET;

quit

!! Double check if not in place do that

show parameter sga\_max\_size

show parameter sga\_target

show parameter pga\_aggregate\_target

alter system set sga\_max\_size=64G scope=spfile;

alter system set sga\_target=64G scope=spfile;

alter system set pga\_aggregate\_target=16G scope=spfile;

srvctl stop database -d HEPYMASK\_xhepydbm21q

srvctl start database -d HEPYMASK\_xhepydbm21q

~~sqlplus / as sysdba~~

~~@?/rdbms/admin/utlrp.sql~~

~~select count(\*)~~

~~from dba\_objects~~

~~where status = 'INVALID';~~

~~@change\_sys\_P.sql~~

~~exit~~

cd $HOME/tls/refresh/HEPYMASK

rm \*.out \*.log

sqlplus / as sysdba

@post\_clone.sql

~~sqlplus / as sysdba~~

~~@create\_OPTIM\_user.sql~~

~~@create\_OPTIM\_role.sql~~

~~@create\_indexes.sql~~

~~@ext\_lock\_user\_accounts.sql~~

~~@HEPYMASK\_lock\_user\_accounts.sql~~

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there add them. Schedule archivelog job every

30 min.

Run Level 0 and Archivelog jobs

Upgrade to 19c upon Level0 completion

Run Level1 after 19c Upgrade

Suspend all jobs in OEM

Once backups completed move database to norachivelog mode

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

\*\*\*\*02/24/2021 – HEPYMGR2 from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "Feb24#2021"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

--from Primary

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nxmXH?8aa\n' &

--from Standby

~~nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'6\nvkWN%1hG\n' &~~

nohup ./clone\_dbskiptbs.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'6\nhjLC?5wl\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMGR2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Feb24#2021

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Feb\_24\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*03/09/2021 – HEPYMGR from HEPYMGR2 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMGR2 a236120 P = to what currently in HEPYMGR (if P was used before reset in HEPYMGR to new one and reset to that one in HEPYMGR2)

~~AU A236120~~

~~I BY "Feb24#2021"~~

~~/~~

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

Source database to be used for the refresh (target database)

HEPYMGR2

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

Enter Schema Owner (e.g. PROD)

PROD

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Feb24#2021

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR

None Prod sys: zyz99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMGR2 to HEPYMGR

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYMGR

. oraenv

HEPYMGR

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d <<< $'4\nXXXXXX\n' &

nohup ./clone\_db.sh HEPYMGR 1574 HEPYMGR2 1574 xhepydbw26d <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYMGR\_XHEPYDBW25D

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Feb24#2021

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mar\_09\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone and uncomment crontab jobs.

\*\*\*\*03/25/2021 – HEPYQA from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMASK a236120 P = to what currently in HEPYQA (if P was used before reset in HEPYQA to new one and reset to that one in HEPYMASK)

~~AU A236120~~

~~I BY "Mar04#2021"~~

~~/~~

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

Source database to be used for the refresh (target database)

HEPYMASK

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – Mar04#2021

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

Get from TPAM

None Prod sys: ~~zyz99999~~

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: zyz99999)

Logon to the database server hosting database HEPYQA

. oraenv

HEPYQA

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA 1559 HEPYMASK 1530 xhepydbm21q <<< $'4\nzyz99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA\_XHEPYDBW21Q

How to restore dropped database in case clone did not work

--Add HEPYQA entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Mar04#2021

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mar\_25\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

\*\*\*\*07/12/2021 – HEPYQA2 from HEPYQA \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

~~!! reset HEPYMASK a236120 P = to what currently in HEPYQA2 (if P was used before reset in HEPYQA2 to new one and reset to that one in HEPYMASK)~~

~~AU A236120~~

~~I BY "Aug26#2020"~~

~~/~~

Logon to the database server hosting database ~~HEPYQA2~~ (APRPYMSK) (xhepydbw22q)

. oraenv

~~HEPYQA2~~

APRPYMSK

cd $HOME/tls/refresh/APRPYMSK

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

~~HEPYQA2~~

APRPYMSK

Source database to be used for the refresh (target database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

~~. oraenv~~

~~HEPYQA2~~

~~cd $SCRIPTS~~

~~!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.~~

~~drop\_database.sh HEPYQA2~~

~~None Prod sys: zyz99999~~

~~Move to noarchivelog (already moved during Masking)~~

Resize SGA

show parameter sga\_max\_size

64G

show parameter sga\_target

64G

show parameter pga\_aggregate\_target

16G

alter system set sga\_max\_size=2G scope=spfile;

alter system set sga\_target=2G scope=spfile;

alter system set pga\_aggregate\_target=500M scope=spfile;

srvctl stop database -d APRPYMSK\_xhepydbw22q

srvctl start database -d APRPYMSK\_xhepydbw22q

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA to HEPYQA2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYQA2

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA2 1578 HEPYQA 1559 xhepydbw21q <<< $'4\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA2\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA2\_XHEPYDBW22Q

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA2 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

rmanc

**upgrade catalog;**

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jul\_12\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone

\*\*\*\*07/26/2021 – HEPYMGR2 from HEPYPRD \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "Jul16#2021"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

3

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

Just this time because current MGR2 is Actifio. Make sure redologs moved back to Actitio disk. Just stutdown database and listener.

srvctl stop database -d HEPYMGR2\_xhepydbw26d

srvctl stop listener -l HEPYMGR2

~~cd $SCRIPTS~~

~~!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.~~

~~drop\_database.sh HEPYMGR2~~

~~None Prod sys: Zyz#99999~~

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYMGR2

. oraenv

HEPYMGR2

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

Check tnsnames.ora entires under HEPYMGR2 Oracle Home (19.9.0/network/admin)

To prevent possible RMAN-04006: error from auxiliary database: ORA-12154: TNS:could not resolve the connect identifier specified

HEPYPRD\_XHEPYDBW21P =

(DESCRIPTION =

(ADDRESS\_LIST =

(ADDRESS = (PROTOCOL = TCP)(HOST = xhepydbw21p)(PORT = 1574))

)

(CONNECT\_DATA =

(SID = HEPYPRD)

)

)

HEPYMGR2\_xhepydbw26d =

(DESCRIPTION =

(ADDRESS\_LIST =

(ADDRESS = (PROTOCOL = TCP)(HOST = xhepydbw26d)(PORT = 1574))

)

(CONNECT\_DATA =

(SID = HEPYMGR2)

)

)

Check tnsnames.ora entry under ASM Oracle Home (/network/admin)

To prevent possible RMAN-04006: error from auxiliary database: ORA-12154: TNS:could not resolve the connect identifier specified

HEPYPRD\_XHEPYDBW21P =

(DESCRIPTION =

(ADDRESS\_LIST =

(ADDRESS = (PROTOCOL = TCP)(HOST = xhepydbw21p)(PORT = 1574))

)

(CONNECT\_DATA =

(SID = HEPYPRD)

)

)

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &

--from Primary

nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nxmXH?8aa\n' &

--from Standby

-- Modified to increase default SGA

nohup ./**clone\_db\_EB**.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'8\nfbDX?2LY\n' &

~~nohup ./clone\_dbskiptbs.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'6\nhjLC?5wl\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYMGR2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

We had to do last time as well

shutdown abort

srvctl config database -l HEPYMGR2

srvctl stop listener -l HEPYMGR2

srvctl remove listener -l HEPYMGR2

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

* RMAN duplicate part completed find but after that script failed. Here are some notes on how to finish post duplicate steps manually

**cd /orahome/u01/app/oracle/admin/HEPYMGR2/rman**

**and/or**

**cd /home/oracle/eb/clone\_db\_post\_rman\_manualfixes**

-rw-r--r-- 1 oracle dba     166 Jul 29 10:54 adding\_new\_redo\_HEPYMGR2.out

-rw-r--r-- 1 oracle dba     883 Jul 29 10:55 check\_redo.sql

-rw-r--r-- 1 oracle dba     590 Jul 29 10:59 adding\_new\_redo\_HEPYMGR2.out2

-rw-r--r-- 1 oracle dba     788 Jul 29 11:00 add\_redo.sql

-rw-r--r-- 1 oracle dba     884 Jul 29 11:01 adding\_new\_redo\_HEPYMGR2.out3

-rw-r--r-- 1 oracle dba   10910 Jul 29 11:29 kill\_services\_HEPYMGR2.out

-rw-r--r-- 1 oracle dba     860 Jul 29 11:32 new\_service.sql

-rw-r--r-- 1 oracle dba     385 Jul 29 11:33 new\_service.out

-rw-r--r-- 1 oracle dba     570 Jul 29 11:35 new\_trig.sql

-rw-r--r-- 1 oracle dba     717 Jul 29 11:35 new\_trig.out

-rw-r--r-- 1 oracle dba    1063 Jul 29 11:42 audit\_dbs.out

-rw-r--r-- 1 oracle dba      34 Jul 29 11:43 awr\_old.out

-rw-r--r-- 1 oracle dba    1882 Jul 29 11:49 old\_awr.out

-rw-r--r-- 1 oracle dba     214 Jul 29 11:49 add\_bct.sql

-rw-r--r-- 1 oracle dba     756 Jul 29 11:50 add\_bct\_\_HEPYMGR2.out

-rw-r--r-- 1 oracle dba     719 Jul 29 11:57 create\_cat\_HEPYMGR2.rman

• Run script after the clone refresh. (See script for details).

Apply 19.11.0 PSU back as it was before clone

cd $SCRIPTS

./patch\_db.sh 19.11.0 HEPYMGR2

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Jul29#2021

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jul\_26\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*08/05/2021 – HEPYQA3 from HEPYPRD (ACTIFIO) - canceled\*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity.

Comment out HEPYQA3 entries in crontab.

• Run script prior to clone refresh. (See script for details).

Save HEPYPRD AID P at the time of Actifio Snapshot backup that will be used for clone

!! reset HEPYPRD a236120 P = to what currently in HEPYPRD

AU A236120

I BY "DrDIF-xMp3XfJOl"

/

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $SCRIPTS

None Prod sys: Zyz#99999

!! Say No to all. ~~You’ll want to respond schedule to the rman/tsm cleanup prompt.~~

drop\_database.sh HEPYQA3

• Clone Actifio steps

See doc HEPYQA3\_mounting\_virtualstorage.docx

• Run script after the clone refresh. (See script for details).

See doc HEPYQA3\_postActifioClone\_Steps.docx

Apply PSU if needed

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

AU A236120

I BY "DrDIF-xMp3XfJOl"

/

./clone\_post\_steps\_actifio.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

DBA ID (dba id to be used for connecting to the aux database)

Enter Schema Owner (e.g. PROD)

PROD

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

DrDIF-xMp3XfJOl

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mon\_29\_2021

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

~~AU HEDBA~~

~~I BY "XYZbyHE#19Feb"~~

~~/~~

Resume all OEM jobs that were disabled above.

Uncomment crontab jobs

\*\*\*\*08/05/2021 – HEDWQA3 from HEDWPRD (ACTIFIO) – canceled \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity.

Comment out HEDWQA3 entries in crontab.

• Run script prior to clone refresh. (See script for details).

Save HEDWPRD AID P at the time of Actifio Snapshot backup that will be used for clone

!! reset HEDWQA3 a236120 P = to what currently in HEDWPRD

AU A236120

I BY "?P0mX09HLm?74Ds"

/

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEDWQA3

cd $HOME/tls/refresh/HEDWQA3

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWQA3

Source database to be used for the refresh (target database)

HEDWPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWQA3 (xhedwdbw23q)

. oraenv

HEDWQA3

cd $SCRIPTS

None Prod sys: Zyz#99999

!! Say No to all. ~~You’ll want to respond schedule to the rman/tsm cleanup prompt.~~

drop\_database.sh HEDWQA3

• Clone Actifio steps

See doc HEDWQA3\_mounting\_virtualstorage.docx

• Run script after the clone refresh. (See script for details).

See doc HEDWQA3\_postActifioClone\_Steps.docx

Apply PSU if needed

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEDWQA3

cd $HOME/tls/refresh/HEDWQA3

AU A236120

I BY "?P0mX09HLm?74Ds"

/

./clone\_post\_steps\_actifio.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWQA3

DBA ID (dba id to be used for connecting to the aux database)

Enter Schema Owner (e.g. PROD)

PROD\_DW

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

?P0mX09HLm?74Ds

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mon\_29\_2021

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

~~AU HEDBA~~

~~I BY "XYZbyHE#19Feb"~~

~~/~~

Resume all OEM jobs that were disabled above.

Uncomment crontab jobs

\*\*\*\*09/01/2021 – HEPYQA3 from HEPYQA2 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA3 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA3 a236120 P = to what currently in HEPYQA2 (if P was used before reset in HEPYQA3 to new one and reset to that one in HEPYQA2)

~~AU A236120~~

~~I BY "Mar04#2021"~~

~~/~~

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA3

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Source database to be used for the refresh (target database)

HEPYQA2

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – XXX

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA3

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA3

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA2 to HEPYQA3

!! get PROD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYQA3

. oraenv

HEPYQA3

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA3 1572 HEPYQA2 1578 xhepydbw22q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA3

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA3/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA3\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA3\_XHEPYDBW23Q

How to restore dropped database in case clone did not work

--Add HEPYQA entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA3 restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA3

AU S012030

ACCOUNT LOCK

/

Kill active connections

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Sep\_01\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

AU S012030

ACCOUNT UNLOCK

/

Resume all OEM jobs that were disabled prior clone.

\*\*\*\*10/28/2021 – HEPYMGR from HEPYPRD from DDboost Tape backup\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR (if P was used before reset in HEPYMGR to new one and reset to that one in HEPYPRD)

AU A236120

I BY "Feb24#2021"

/

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

Enter Schema Owner (e.g. PROD)

PROD

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMGR

. oraenv

HEPYMGR

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db\_EB.sh HEPYMGR 1574 HEPYPRD 1574 xhepydbw21p <<< $'8\nXXX\n' &

## DDboost

cd /home/oracle/tls/refresh/HEPYMGR

nohup ./clone\_db\_fr\_tape.sh HEPYMGR 1574 HEPYPRD 1574 xhepydbm21p 6144 <<< $'6\nnuZD\*1IY\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR/rman

tail -f xxxx

To monitor restore

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYMGR\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYMGR\_XHEPYDBW25D

srvctl stop listener -l HEPYMGR

srvctl remove listener -l HEPYMGR

How to restore dropped database in case clone did not work

--Add HEPYMGR entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR (xhepydbw25d)

. oraenv

HEPYMGR

cd $HOME/tls/refresh/HEPYMGR

AU A236120

I BY "Nov02#2021"

/

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Oct\_28\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone and uncomment crontab jobs.

\*\*\*\*10/19/2021 – HEPYMASK from HEPYPRD \*\*\*\*

!! If HEPYQA Standby exist on xhepydbm21q drop it first.

Logon to the database server hosting database HEPYQA (xhepydbm21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say YES to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys: fjRC$8au

If this HEPYQA Primary or Standby get P from TPAM

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM – **if any exist**)

~~• Run script prior to clone refresh. (See script for details).~~

~~!! reset HEPYPRD a236120 P = to what currently in HEPYMASK (if P was used before reset in HEPYMASK to new one and reset to that one in HEPYPRD)~~

~~AU A236120~~

~~I BY "May12#2020"~~

~~/~~

~~Logon to the database server hosting database HEPYMASK (xhepydbm21q)~~

~~. oraenv~~

~~HEPYMASK~~

~~cd $HOME/tls/refresh/HEPYMASK~~

~~./clone\_pre\_steps.sh~~

~~The script will prompt for the following information:~~

~~Database to be refreshed (auxiliary database)~~

~~HEPYMASK~~

~~Source database to be used for the refresh (target database)~~

~~HEPYPRD~~

~~DBA ID (dba id to be used for connecting to the aux and target databases)~~

~~A236120~~

~~DBA P (P for the dba id being used for connecting to the aux and target databases)~~

~~enter\_P\_here – Feb24#2020~~

~~Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run~~

~~all steps in the script. Specify a number other than 1 if the script is being run again due to an error~~

~~and you want to start at the failed step number).~~

~~1~~

~~The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.~~

~~cd /home/oracle/tls/refresh/HEPYMASK~~

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

--from HEPYPRD Standby

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'6\nkgRN+7vf\n' &~~

!! if this clone from HEPYPRD change sga\_target and sga\_max from 2 g to 6 g

nohup ./clone\_db\_eb.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbw21p <<< $'8\nwwMF%5ql\n' &

--from HEPYPRD Primary

~~nohup ./clone\_db.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p <<< $'4\nxmXH?8aa\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

!!! This script never been tested.

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/HEPYMASK/refresh

AU A236120

I BY "Aug02#2021"

/

cd $HOME/HEPYMASK/refresh

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

OR

Below part of post script…

cd /orahome/u01/app/oracle/admin/HEPYMASK/rman

configure\_ddboost.rman

!! Double check if not in place do that

show parameter sga\_max\_size

show parameter sga\_target

show parameter pga\_aggregate\_target

alter system set sga\_max\_size=64G scope=spfile;

alter system set sga\_target=64G scope=spfile;

alter system set pga\_aggregate\_target=16G scope=spfile;

srvctl stop database -d HEPYMASK\_xhepydbm21q

srvctl start database -d HEPYMASK\_xhepydbm21q

~~sqlplus / as sysdba~~

~~@?/rdbms/admin/utlrp.sql~~

~~select count(\*)~~

~~from dba\_objects~~

~~where status = 'INVALID';~~

~~@change\_sys\_P.sql~~

~~exit~~

cd $HOME/tls/refresh/HEPYMASK

rm \*.out \*.log

sqlplus / as sysdba

@post\_clone.sql

~~sqlplus / as sysdba~~

~~@create\_OPTIM\_user.sql~~

~~@create\_OPTIM\_role.sql~~

~~@create\_indexes.sql~~

~~@ext\_lock\_user\_accounts.sql~~

~~@HEPYMASK\_lock\_user\_accounts.sql~~

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

!! Just in case Prod still under old Oracle Home. Apply latest PSU

cd $SCRIPTS

./patch\_db.sh 19.12.0 HEPYMASK

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there add them. Schedule archivelog job every

30 min.

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

\*\*\*\*11/18/2021 – HEPYQA from HEPYMASK - DDboost Tape backup **DIFF datacenters**\*\*\* \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMASK a236120 P = to what currently in HEPYQA (if P was used before reset in HEPYQA to new one and reset to that one in HEPYMASK)

~~AU A236120~~

~~I BY "Mar04#2021"~~

~~/~~

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

Source database to be used for the refresh (target database)

HEPYMASK

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

Get from TPAM

None Prod sys: ~~zyz99999~~

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA

1. Run Level 0 on Source Database (HEPYMASK) + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections
3. Under /orahome/u01/app/oracle/admin/HEPYQA/rman

vi setup\_ddboost\_for\_clone.rman

run {

allocate channel dd01 type 'sbt\_tape' parms 'SBT\_LIBRARY=/orahome/u01/app/oracle/product/**19.12.1**/db\_1/lib/libddobk.so, ENV=(BACKUP\_HOST=**winpdd0821\_lf2**,RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost)';

send 'set username ddboost\_ora P ddb00st servername **winpdd0821\_lf2** storageunit **/ora\_dev\_boost3540\_restore/xhepydbm21q'**;

release channel dd01;

}

**[1:32 PM] Berman, Eugene**

**quick question so I can document that for the future. You had added dummy entry in oratab for HEPYQA and created init.ora file with just DB name = HEPYQA to start that instance ? And then connected to rman to run that script ?**

**[1:43 PM] Ryan, Richard T**

**I did not create a entry in oratab, I sourced my environment with the 19121 entry then set the SID with export ORACLE\_SID=HEPYQA. The init.ora for clone already existed**

**-- if first time copy files**

**Login to HEPYMGR box**

cd /home/oracle/tls/refresh/HEPYMGR

scp **clone\_db\_fr\_tape.sh** xhepydbw21q:/home/oracle/tls/refresh/HEPYQA/**clone\_db\_fr\_tape.sh**

scp **duplicate\_HEPYPRD\_fr\_tape.rman** xhepydbw21q:/home/oracle/tls/refresh/HEPYQA/**duplicate\_HEPYMASK\_fr\_tape.rman**

!! vi clone\_db\_fr\_tape.sh – specify correct Source (HEPYMASK) backup location info.

# Added by T.S.

#LOGFILE=$LOGDIR/clone\_db\_$1\_$DATEVAR.out

LOGFILE=$LOGDIR/clone\_db\_${1}\_fr\_tape\_${DATEVAR}.out

export RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost

export BACKUP\_HOST="**winpdd0821\_lf2**"

export STORAGE\_UNIT="/**ora\_dev\_boost3540\_restore/xhepydbm21q**"

!! vi duplicate\_HEPYMASK\_fr\_tape.rman - modify

Use following command on Source (HEPYMASK) to obtain current info

list incarnation of database;

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYQA

. oraenv

HEPYQA

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

nohup ./clone\_db.sh HEPYQA 1559 HEPYMASK 1530 xhepydbm21q <<< $'4\nzyz99999\n' &

## DDboost

cd /home/oracle/tls/refresh/HEPYQA

nohup ./clone\_db\_fr\_tape.sh HEPYQA 1559 HEPYMASK 1530 xhepydbm21q 6144 <<< $'6\n Zyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA/rman

tail -f xxxx

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA\_XHEPYDBW21Q

5. Remove Listener

srvctl stop listener -l HEPYQA

srvctl remove listener -l HEPYQA

How to restore dropped database in case clone did not work

--Add HEPYQA entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Mar04#2021

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Nov\_18\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

\*\*\*\*01/25/2022 – HEPYMGR2 from HEPYPRD - DDboost Tape backup **Diff Data Center** \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "Jul16#2021"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

**-- Make sure following scripts in place if not copy from another server**

scp clone\_db\_fr\_tape.sh xhepydbw26d:/home/oracle/tls/refresh/HEPYMGR2/clone\_db\_fr\_tape.sh

scp duplicate\_HEPYPRD\_fr\_tape.rman xhepydbw26d:/home/oracle/tls/refresh/HEPYMGR2/duplicate\_HEPYPRD\_fr\_tape.rman

scp setup\_ddboost\_for\_clone.rman xhepydbw26d:/home/oracle/tls/refresh/HEPYMGR2/ setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**Example: following entries in all 3 files should be the same as far as Host and dir names**

**run {**

**allocate channel dd01 type 'sbt\_tape' parms 'SBT\_LIBRARY=/orahome/u01/app/oracle/product/19.12.1/db\_1/lib/libddobk.so, ENV=(BACKUP\_HOST=winpdd0821\_lf2,RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost)';**

**send 'set username ddboost\_ora P ddb00st servername winpdd0821\_lf2 storageunit /ora\_prd\_boost3540/xhepydbm21p';**

**release channel dd01;**

**}**

**export RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost**

**export BACKUP\_HOST="winpdd0821\_lf2"**

**export STORAGE\_UNIT="/ora\_prd\_boost3540/xhepydbm21p"**

**allocate auxiliary channel c6 type 'SBT\_TAPE' PARMS 'BLKSIZE=1048576,SBT\_LIBRARY=/orahome/u01/app/ddboost/lib/libddobk.so,ENV=(STORAGE\_UNIT=/ora\_prd\_boost3540/xhepydbm21p,BACKUP\_HOST=winpdd0821\_lf2,ORACLE\_HOME=/orahome/u01/app/oracle/admin/HEPYMGR2/oracle\_home)';**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('01/25/2022 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

1. Make sure you have good HEPYPRD Level0 + Level1 + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYMGR2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

~~##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>~~

~~nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &~~

~~--from Primary~~

~~nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nxmXH?8aa\n' &~~

~~--from Standby~~

~~-- Modified to increase default SGA~~

~~nohup ./~~**~~clone\_db\_EB~~**~~.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'8\nfbDX?2LY\n' &~~

cd /home/oracle/tls/refresh/HEPYMGR2

nohup ./clone\_db\_fr\_tape.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p 6144 <<< $'6\nnuZD\*1IY\n' &

~~nohup ./clone\_dbskiptbs.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'6\nhjLC?5wl\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYMGR2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

We had to do last time as well

shutdown abort

srvctl config database -l HEPYMGR2

srvctl stop listener -l HEPYMGR2

srvctl remove listener -l HEPYMGR2

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

To monitor restore

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

~~Apply 19.11.0 PSU back as it was before clone~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.11.0 HEPYMGR2~~

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jan\_25\_2022

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*02/18/2022 – HEPYQA2 from HEPYMASK - DDboost Tape backup **Diff Data Center** \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA2 entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

!! reset HEPYMASK a236120 P = to what currently in HEPYQA2 (if P was used before reset in HEPYQA2 to new one and reset to that one in HEPYMASK)

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA2

**-- Make sure following scripts in place if not copy from another server** (for example from **xhepydbw26d**)

**Login to xhepydbw26d**

cd /home/oracle/tls/refresh/HEPYMGR2

scp clone\_db\_fr\_tape.sh xhepydbw22q:/home/oracle/tls/refresh/HEPYQA2/clone\_db\_fr\_tape.sh

**!! rename file based on Source name**

scp duplicate\_HEPYPRD\_fr\_tape.rman xhepydbw22q:/home/oracle/tls/refresh/HEPYQA2/duplicate\_HEPYMASK\_fr\_tape.rman

scp setup\_ddboost\_for\_fast\_copy\_restore.rman xhepydbw22q:/home/oracle/tls/refresh/HEPYQA2/ setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**Example: following entries in all 3 files should be the same as far as Host and dir names**

**run {**

**allocate channel dd01 type 'sbt\_tape' parms 'SBT\_LIBRARY=/orahome/u01/app/oracle/product/19.12.1/db\_1/lib/libddobk.so, ENV=(BACKUP\_HOST=winpdd0821\_lf2,RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost)';**

**send 'set username ddboost\_ora P ddb00st servername winpdd0821\_lf2 storageunit /ora\_prd\_boost3540/xhepydbm21p';**

**release channel dd01;**

**}**

**export RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost**

**export BACKUP\_HOST="winpdd0821\_lf2"**

**export STORAGE\_UNIT="/ora\_prd\_boost3540/xhepydbm21p"**

**allocate auxiliary channel c6 type 'SBT\_TAPE' PARMS 'BLKSIZE=1048576,SBT\_LIBRARY=/orahome/u01/app/ddboost/lib/libddobk.so,ENV=(STORAGE\_UNIT=/ora\_prd\_boost3540/xhepydbm21p,BACKUP\_HOST=winpdd0821\_lf2,ORACLE\_HOME=/orahome/u01/app/oracle/admin/HEPYMGR2/oracle\_home)';**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('01/25/2022 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

1. Make sure you have good HEPYMASK Level0 + ~~Level1~~ + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYQA2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

~~##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>~~

~~nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'4\nXXXXXX\n' &~~

~~--from Primary~~

~~nohup ./clone\_db.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p <<< $'6\nxmXH?8aa\n' &~~

~~--from Standby~~

~~-- Modified to increase default SGA~~

~~nohup ./~~**~~clone\_db\_EB~~**~~.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'8\nfbDX?2LY\n' &~~

cd /home/oracle/tls/refresh/HEPYQA2

nohup ./clone\_db\_fr\_tape.sh HEPYQA2 1578 HEPYMASK 1530 xhepydbm21q 6144 <<< $'6\nZyz#99999\n' &

~~nohup ./clone\_dbskiptbs.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbw21p <<< $'6\nhjLC?5wl\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYQA2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA2\_XHEPYDBW22Q

We had to do last time as well

shutdown abort

srvctl config database -l HEPYQA2

srvctl stop listener -l HEPYQA2

srvctl remove listener -l HEPYQA2

How to restore dropped database in case clone did not work

--Add HEPYQA2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA2 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

~~Apply 19.11.0 PSU back as it was before clone~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.11.0 HEPYMGR2~~

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Feb\_18\_2022

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\* Step to extract custom DW index for bootstrap\*\*

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) view dw\_databases.txt

HEDWQA2

2) get\_custom\_indexes\_ddl.sh

3) Login to HEDWQA2 and run following

SELECT index\_name FROM DBA\_INDEXES

where index\_name like '%AEDBA%'

and owner = 'PROD\_DW'

order by owner,table\_name,index\_name;

## modify for each table

ALTER INDEX PROD\_DW.XXX NOPARALLEL;

4)

cp dw\_custom\_indexes\_ddl\_20220218\_131733.out create\_dw\_qa2\_custom\_indexes.sql

vi create\_dw\_qa2\_custom\_indexes.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa2\_custom\_indexes.out

alter session force parallel ddl parallel 4;

ALTER INDEX PROD\_DW.XXX NOPARALLEL;

ALTER INDEX PROD\_DW.XXX NOPARALLEL;

....

spool off

5) Copy file to HEDWQA2 box

scp /home/oracle/tls/idx/create\_dw\_qa2\_custom\_indexes.sql xhedwdbw22q:/home/oracle/tls/idx/create\_dw\_qa2\_custom\_indexes.sql

\*\*\*\*04/11/2022 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

cd /home/oracle/tls/refresh/HEPYMASK

## Review all scripts and modify accordinaly

vi setup\_ddboost\_for\_clone.rman

run {

allocate channel dd01 type 'sbt\_tape' parms 'SBT\_LIBRARY=/orahome/u01/app/oracle/product/19.12.1/db\_1/lib/libddobk.so, ENV=(BACKUP\_HO

ST=winpdd3541\_lf2,RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost)';

send 'set username ddboost\_ora P ddb00st servername midpdd3540\_lf2 storageunit /ora\_prd\_boost3540/xhepydbm21p';

release channel dd01;

}

vi clone\_db\_fr\_tape.sh

# Added by T.S.

#LOGFILE=$LOGDIR/clone\_db\_$1\_$DATEVAR.out

LOGFILE=$LOGDIR/clone\_db\_${1}\_fr\_tape\_${DATEVAR}.out

export RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost

export BACKUP\_HOST="midpdd3540\_lf2"

export STORAGE\_UNIT="/ora\_prd\_boost3540/xhepydbm21p"

vi duplicate\_HEPYPRD\_fr\_tape.rman

!!! Make sure you have correct YEAR in line below

!!! ### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

duplicate database HEPYPRD dbid 915700946 incarnation 2 to HEPYMASK

until time "TO\_DATE('04/11/2022 05:01:00', 'MM/DD/YYYY HH24:MI:SS')"

vi configure\_ddboost.rman

!! Just to make sure you have original rman DDBoost setings to set back after clone

CONFIGURE CHANNEL DEVICE TYPE 'SBT\_TAPE' PARMS 'BLKSIZE=1048576,SBT\_LIBRARY=/orahome/u01/app/ddboost/lib/libddobk.so,ENV=(STORAGE\_UNI

T=/ora\_dev\_boost3540/xhepydbm21q,BACKUP\_HOST=winpdd3540\_lf2,ORACLE\_HOME=/orahome/u01/app/oracle/admin/HEPYMASK/oracle\_home)' format '.

/%d/bk\_%d\_%I\_%T/%U';

quit

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYQA Standby exist on xhepydbm21q drop it first.

Logon to the database server hosting database HEPYQA (xhepydbm21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say YES to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys: fjRC$8au

If this HEPYQA Primary or Standby get P from TPAM

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM – **if any exist**)

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p 6144 <<< $'6\nXXX\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/HEPYMASK/refresh

AU A236120

I BY "Aug02#2021"

/

cd $HOME/HEPYMASK/refresh

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

Resume all OEM jobs that were disabled prior clone.

-- Run Level 0 backup outside of OEM to make sure agent not going to be down during first backup

cd $HOME/tls/rman

nohup backup\_hepymask\_aft\_rfrsh.sh HEPYMASK backup\_hepymask\_aft\_rfrsh.rman

~~Check if backup jobs not there add them. Schedule archivelog job every~~

~~30 min.~~

~~Run Level 0 and Archivelog jobs~~

Once backups completed move database to norachivelog mode

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

cd $HOME/tls/rman

nohup backup\_hepymask\_aft\_mask.sh HEPYMASK backup\_hepymask\_aft\_mask.rman

\*\*\*\*05/12/2022 – HEPYMGR2 from HEPYPRD - DDboost Tape backup **Diff Data Center** \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "May12#2022"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – May12#2022

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

**-- Make sure following scripts in place if not copy from another server**

scp clone\_db\_fr\_tape.sh xhepydbw26d:/home/oracle/tls/refresh/HEPYMGR2/clone\_db\_fr\_tape.sh

scp duplicate\_HEPYPRD\_fr\_tape.rman xhepydbw26d:/home/oracle/tls/refresh/HEPYMGR2/duplicate\_HEPYPRD\_fr\_tape.rman

scp setup\_ddboost\_for\_clone.rman xhepydbw26d:/home/oracle/tls/refresh/HEPYMGR2/ setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**Example: following entries in all 3 files should be the same as far as Host and dir names**

**run {**

**allocate channel dd01 type 'sbt\_tape' parms 'SBT\_LIBRARY=/orahome/u01/app/oracle/product/19.12.1/db\_1/lib/libddobk.so, ENV=(BACKUP\_HOST=winpdd0821\_lf2,RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost)';**

**send 'set username ddboost\_ora P ddb00st servername winpdd0821\_lf2 storageunit /ora\_prd\_boost3540/xhepydbm21p';**

**release channel dd01;**

**}**

**export RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost**

**export BACKUP\_HOST="winpdd0821\_lf2"**

**export STORAGE\_UNIT="/ora\_prd\_boost3540/xhepydbm21p"**

**allocate auxiliary channel c6 type 'SBT\_TAPE' PARMS 'BLKSIZE=1048576,SBT\_LIBRARY=/orahome/u01/app/ddboost/lib/libddobk.so,ENV=(STORAGE\_UNIT=/ora\_prd\_boost3540/xhepydbm21p,BACKUP\_HOST=winpdd0821\_lf2,ORACLE\_HOME=/orahome/u01/app/oracle/admin/HEPYMGR2/oracle\_home)';**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('01/25/2022 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

1. Make sure you have good HEPYPRD Level0 + Level1 + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

Commands for reference to run by **Unix Admin/Storman**:

Winpdd0821:

**filesys fastcopy source /data/col1/ora\_prd\_boost3540 destination /data/col1/ora\_prd\_boost3540\_restore**

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYMGR2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

cd /home/oracle/tls/refresh/HEPYMGR2

nohup ./clone\_db\_fr\_tape.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p 6144 <<< $'6\nuzOD?8ZS\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYMGR2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

We had to do last time as well

shutdown abort

srvctl config database -l HEPYMGR2

srvctl stop listener -l HEPYMGR2

srvctl remove listener -l HEPYMGR2

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – May12#2022

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_12\_2022

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*05/12/2022 – HEDWMGR2 from HEDWPRD - DDboost Tape backup **Diff Data Center** \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEDWPRD a236120 P = to what currently in HEDWMGR2 (if P was used before reset in HEDWMGR2 to new one and reset to that one in HEDWPRD)

AU A236120

I BY "May12#2022"

/

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $HOME/tls/refresh/HEDWMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

Source database to be used for the refresh (target database)

HEDWPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – May12#2022

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEDWMGR2

**-- Make sure following scripts in place if not copy from another server**

clone\_db\_fr\_tape.sh

duplicate\_HEDWPRD\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

rmanc

RMAN> list incarnation of database;

List of Database Incarnations

DB Key Inc Key DB Name DB ID STATUS Reset SCN Reset Time

------- ------- -------- ---------------- --- ---------- ----------

1 86 HEDWPRD 566952826 PARENT 14078926 08-MAR-2015 13:18:50

**1 2 HEDWPRD 566952826 CURRENT 48262617 01-JUN-2015 15:17:17**

1. Make sure you have good HEDWPRD Level0 + Level1 + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

Commands for reference to run by **Unix Admin/Storman**:

Winpdd3541:

**filesys fastcopy source /data/col1/ora\_prd\_boost7966 destination /data/col1/ora\_prd\_boost7966\_restore**

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWMGR2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEDWPRD to HEDWMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEDWMGR2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

cd /home/oracle/tls/refresh/HEDWMGR2

nohup ./clone\_db\_fr\_tape.sh HEDWMGR2 1575 HEDWPRD 1575 xhedwdbm21p 6144 <<< $'4\nuxFC!1wh\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEDWMGR2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWMGR2\_XHEDWDBW26D

We had to do last time as well

shutdown abort

srvctl config database -l HEDWMGR2

srvctl stop listener -l HEDWMGR2

srvctl remove listener -l HEDWMGR2

How to restore dropped database in case clone did not work

--Add HEDWMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWMGR2 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $HOME/tls/refresh/HEDWMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

Enter Schema Owner (e.g. PROD\_DW)

PROD\_DW

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – May12#2022

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_12\_2022

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*06/01/2022 – HEPYQA3 from HEPYMASK - ~~DDboost Tape backup~~ **~~Diff Data Center~~** \*\*\*\*

Clone from DDboost did not work. First it failed most likely due to OS Patching on RCATDEV box, re run failed also but it was due to missing archivelog files.

Decided to go with active duplication which worked. Took over 20 hours.

Next time try ddboost clone first hopefully main issue was due to OS Patching reboot on RACTEVE box!!

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA3 entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

!! reset HEPYMASK a236120 P = to what currently in HEPYQA3 (if P was used before reset in HEPYQA3 to new one and reset to that one in HEPYMASK)

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA3

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

clone\_db\_fr\_tape.sh

duplicate\_HEPYMASK\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

rmanc

RMAN> list incarnation of database;

List of Database Incarnations

DB Key Inc Key DB Name DB ID STATUS Reset SCN Reset Time

------- ------- -------- ---------------- --- ---------- ----------

459001 460563 HEPYMASK 2547536601 PARENT 154335432 01-JUN-2015 12:49:25

459001 459002 HEPYMASK 2547536601 CURRENT 13575729199048 11-NOV-2020 21:29:36

534101 535895 HEPYMASK 2555942134 PARENT 154335432 01-JUN-2015 12:49:25

534101 534102 HEPYMASK 2555942134 CURRENT 13582787943561 16-FEB-2021 04:22:06

585501 587382 HEPYMASK 2577875722 PARENT 154335432 01-JUN-2015 12:49:25

585501 585502 HEPYMASK 2577875722 CURRENT 13599512463784 22-OCT-2021 01:01:56

638767 640648 HEPYMASK 2585647097 PARENT 154335432 01-JUN-2015 12:49:25

638767 638768 HEPYMASK 2585647097 CURRENT 13606172786460 18-JAN-2022 23:44:38

675019 676921 HEPYMASK 2593088884 PARENT 154335432 01-JUN-2015 12:49:25

675019 675020 HEPYMASK 2593088884 CURRENT 13614095639003 12-APR-2022 02:54:41

1. Make sure you have good HEPYMASK Level0 + archivelog backup

-- Level 0 backup outside of OEM if needed

-- Below should have been completed by now

~~cd $HOME/tls/rman~~

~~nohup backup\_hepymask\_aft\_mask.sh HEPYMASK backup\_hepymask\_aft\_mask.rman~~

1. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

Commands for reference to run by **Unix Admin/Storman**:

Fastcopy command to run by Storman just for reference: (run on DD winpdd0821)

filesys fastcopy source /data/col1/ora\_dev\_boost3540 destination /data/col1/ora\_dev\_boost3540\_restore

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA3

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA3

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYQA3

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_12\_09/

~~cd /home/oracle/tls/refresh/HEPYQA3~~

~~nohup ./clone\_db\_fr\_tape.sh HEPYQA3 1572 HEPYMASK 1530 xhepydbm21q 6144 <<< $'6\nZyz#99999\n' &~~

nohup ./clone\_db.sh HEPYQA3 1572 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA3

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA3/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYQA3\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA3\_XHEPYDBW23Q

We had to do last time as well

shutdown abort

srvctl config database -l HEPYQA3

srvctl stop listener -l HEPYQA3

srvctl remove listener -l HEPYQA3

How to restore dropped database in case clone did not work

--Add HEPYQA3 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA3 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

~~Apply 19.11.0 PSU back as it was before clone~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.11.0 HEPYMGR2~~

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jun\_01\_2022

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

Last time following bootstrap related index was missing in HEPYQA3.

CREATE INDEX PROD.CCEOC\_AEDBA\_1

ON PROD.CONSLTD\_CLM\_EPISODES\_OF\_CARE(HCC\_CLM\_NBR)

TABLESPACE INDX4 ONLINE PARALLEL 4;

ALTER INDEX PROD.CCEOC\_AEDBA\_1 NOPARALLEL;

\*\*\* Step to extract custom DW index for bootstrap\*\*

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA3

2) get\_custom\_indexes\_ddl.sh

~~3) Login to HEDWQA3 and run following~~

~~SELECT index\_name FROM DBA\_INDEXES~~

~~where index\_name like '%AEDBA%'~~

~~and owner = 'PROD\_DW'~~

~~order by owner,table\_name,index\_name;~~

~~## modify for each table~~

~~ALTER INDEX PROD\_DW.XXX NOPARALLEL;~~

4)

cp dw\_custom\_indexes\_ddl\_20220603\_122250.out create\_dw\_qa3\_custom\_indexes.sql

vi create\_dw\_qa3\_custom\_indexes.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa3\_custom\_indexes.out

alter session force parallel ddl parallel 4;

~~ALTER INDEX PROD\_DW.XXX NOPARALLEL;~~

~~ALTER INDEX PROD\_DW.XXX NOPARALLEL;~~

....

spool off

5) Copy file to HEDWQA3 box

scp /home/oracle/tls/idx/create\_dw\_qa3\_custom\_indexes.sql xhedwdbw23q:/home/oracle/tls/idx/create\_dw\_qa3\_custom\_indexes\_Jun2022.sql

**HEDWQA3 prep for Bootstrap steps**

**Suspend OEM backups**

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Bootstrap move database back to archivelog mode and run Level0 + archivelog backups

**UnSuspend OEM backups**

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

\*\*\*\*06/21/2022 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYQA Standby exist on xhepydbm21q drop it first.

Logon to the database server hosting database HEPYQA (xhepydbm21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say YES to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys: fjRC$8au

If this HEPYQA Primary or Standby get P from TPAM

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM – **if any exist**)

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm21p 6144 <<< $'6\nXXX\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

asmcmd ls -l IND\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $HOME/HEPYMASK/refresh

AU A236120

I BY "xxx"

/

cd $HOME/HEPYMASK/refresh

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

* We had issues in the past with OEM so run backup via script below instead.

or

cd $HOME/tls/rman

nohup backup\_hepymask\_aft\_rfrsh.sh HEPYMASK backup\_hepymask\_aft\_rfrsh.rman

Once backups completed move database to norachivelog mode

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

* Run OEM Level 0 and archivelog backups
* We had issues in the past with OEM so run backup via script below instead.

Or

cd $HOME/tls/rman

nohup backup\_hepymask\_aft\_mask.sh HEPYMASK backup\_hepymask\_aft\_mask.rman

\*\*\*\*08/09/2022 – HEPYMGR2 from HEPYPRD - DDboost Tape backup **Diff Data Center** \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYPRD a236120 P = to what currently in HEPYMGR2 (if P was used before reset in HEPYMGR2 to new one and reset to that one in HEPYPRD)

AU A236120

I BY "6V7j5M!aFvSPtuk"

/

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $HOME/tls/refresh/HEPYMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Source database to be used for the refresh (target database)

HEPYPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – May12#2022

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYMGR2

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEPYMGR2/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEPYMGR2/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation. Example below

**HEPYPRD> rmanc**

**Recovery Manager: Release 19.0.0.0.0 - Production on Mon Aug 8 08:02:07 2022**

**Version 19.12.0.0.0**

**Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.**

**connected to target database: HEPYPRD (DBID=915700946)**

**connected to recovery catalog database**

RMAN> list incarnation of database;

List of Database Incarnations

DB Key Inc Key DB Name DB ID STATUS Reset SCN Reset Time

------- ------- -------- ---------------- --- ---------- ----------

1 86 HEPYPRD 915700946 PARENT 142680718 06-MAR-2015 17:21:34

1 2 HEPYPRD 915700946 CURRENT 154335432 01-JUN-2015 12:49:25

1 6726068 HEPYPRD 915700946 ORPHAN 13583980596488 06-MAR-2021 21:45:47

9432044 9432061 HEPYPRD 1141883469 PARENT 973598 01-DEC-2020 11:21:21

9432044 9432045 HEPYPRD 1141883469 CURRENT 50289761 15-JUN-2022 09:18:06

/home/oracle/tls/refresh/HEPYMGR2/**duplicate\_HEPYPRD\_fr\_tape.rman**

1. Make sure you have good HEPYPRD Level0 + Level1 + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

Commands for reference to run by **Unix Admin/Storman**:

Winpdd0821:

**filesys fastcopy source /data/col1/ora\_prd\_boost3540 destination /data/col1/ora\_prd\_boost3540\_restore**

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMGR2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYMGR2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

cd /home/oracle/tls/refresh/HEPYMGR2

nohup ./clone\_db\_fr\_tape.sh HEPYMGR2 1574 HEPYPRD 1574 xhepydbm21p 6144 <<< $'6\nuzOD?8ZS\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYMGR2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMGR2\_XHEPYDBW26D

We had to do last time as well

shutdown abort

srvctl config listener -l HEPYMGR2

srvctl stop listener -l HEPYMGR2

srvctl remove listener -l HEPYMGR2

How to restore dropped database in case clone did not work

--Add HEPYMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMGR2 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYMGR2 (xhepydbw26d)

. oraenv

HEPYMGR2

!! if clone was completed from ddboost backup most likely you will need to reset your AID P.

AU A236120

I BY "xxx"

/

cd $HOME/tls/refresh/HEPYMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMGR2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – May12#2022

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Aug\_09\_2022

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

!! If script failed at step 8. You will need reset your AID P again and repeat starting with step 8

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*08/09/2022 – HEDWMGR2 from HEDWPRD - DDboost Tape backup **Diff Data Center** \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWMGR2 entries in crontab and suspend Backup jobs in OEM)

~~Manually suspend all jobs on HEPYPRD until clone script suspending resolved!!!~~

• Run script prior to clone refresh. (See script for details).

!! reset HEDWPRD a236120 P = to what currently in HEDWMGR2 (if P was used before reset in HEDWMGR2 to new one and reset to that one in HEDWPRD)

AU A236120

I BY "May12#2022"

/

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $HOME/tls/refresh/HEDWMGR2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

Source database to be used for the refresh (target database)

HEDWPRD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – May12#2022

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEDWMGR2

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEDWMGR2/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEDWMGR2/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation. Example below

**HEDWPRD> rmanc**

**Recovery Manager: Release 19.0.0.0.0 - Production on Mon Aug 8 08:06:58 2022**

**Version 19.12.0.0.0**

**Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.**

**connected to target database: HEDWPRD (DBID=566952826)**

**connected to recovery catalog database**

RMAN> list incarnation of database;

List of Database Incarnations

DB Key Inc Key DB Name DB ID STATUS Reset SCN Reset Time

------- ------- -------- ---------------- --- ---------- ----------

1 86 HEDWPRD 566952826 PARENT 14078926 08-MAR-2015 13:18:50

1 2 HEDWPRD 566952826 CURRENT 48262617 01-JUN-2015 15:17:17/home/oracle/tls/refresh/HEDWMGR2/**duplicate\_HEDWPRD\_fr\_tape.rman**

1. Make sure you have good HEDWPRD Level0 + Level1 + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

Commands for reference to run by **Unix Admin/Storman**:

Winpdd3541:

**filesys fastcopy source /data/col1/ora\_prd\_boost7966 destination /data/col1/ora\_prd\_boost7966\_restore**

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWMGR2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEDWPRD to HEDWMGR2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEDWMGR2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

cd /home/oracle/tls/refresh/HEDWMGR2

nohup ./clone\_db\_fr\_tape.sh HEDWMGR2 1575 HEDWPRD 1575 xhedwdbm21p 600 <<< $'4\nuxFC!1wh\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWMGR2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWMGR2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEDWMGR2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWMGR2\_XHEDWDBW26D

We had to do last time as well

shutdown abort

srvctl config database -l HEDWMGR2

srvctl stop listener -l HEDWMGR2

srvctl remove listener -l HEDWMGR2

How to restore dropped database in case clone did not work

--Add HEDWMGR2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWMGR2 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWMGR2 (xhedwdbw26d)

. oraenv

HEDWMGR2

!! if clone was completed from ddboost backup most likely you will need to reset your AID P.

AU A236120

I BY "xxx"

/

cd $HOME/tls/refresh/HEDWMGR2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWMGR2

Enter Schema Owner (e.g. PROD\_DW)

PROD\_DW

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – May12#2022

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_12\_2022

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

!! If script failed at step 8. You will need reset your AID P again and repeat starting with step 8

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

!! ORA-12514: TNS:listener does not currently know of service requested in connect descriptor (After trying to connect from DBArtisan)

Workaround below.

HEDWMGR2> lsnrctl status HEDWMGR2

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 10-AUG-2022 08:55:01

Copyright (c) 1991, 2021, Oracle. All rights reserved.

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=IPC)(KEY=HEDWMGR2\_IPC)))

STATUS of the LISTENER

------------------------

Alias HEDWMGR2

Version TNSLSNR for Linux: Version 19.0.0.0.0 - Production

Start Date 09-AUG-2022 10:48:06

Uptime 0 days 22 hr. 6 min. 54 sec

Trace Level off

Security ON: Local OS Authentication

SNMP OFF

Listener Parameter File /orahome/u01/app/oracle/product/19.12.1/db\_1/network/admin/listener.ora

Listener Log File /orahome/u01/app/oracle/diag/tnslsnr/xhedwdbw26d/hedwmgr2/alert/log.xml

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=HEDWMGR2\_IPC)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=xhedwdbw26d.aetna.com)(PORT=1575)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1575)))

Services Summary...

Service "HEDWMGR2\_xhedwdbw26d" has 1 instance(s).

Instance "HEDWMGR2", status READY, has 1 handler(s) for this service...

Service "HEDWMGR2\_xhedwdbw26d\_dgmgrl" has 1 instance(s).

Instance "HEDWMGR2", status UNKNOWN, has 1 handler(s) for this service...

Service "HEDWPRD\_APP" has 1 instance(s).

Instance "HEDWMGR2", status READY, has 1 handler(s) for this service...

The command completed successfully

cd $HOME/MCL

--from pymgr2 box example

scp kill\_services.sql xhedwdbw26d:/home/oracle/MCL/kill\_services.sql

scp create\_service\_HEPYMGR2.sql xhedwdbw26d:/home/oracle/MCL/create\_service\_HEDWMGR2.sql

scp create\_service\_trigger.sql xhedwdbw26d:/home/oracle/MCL/create\_service\_trigger.sql

-- modify accordingly if needed

@kill\_services.sql

@create\_service\_HEDWMGR2.sql

@create\_service\_trigger.sql

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*08/15/2022 – HEPYQA from HEPYMASK - DDboost Tape backup **DIFF datacenters**\*\*\* \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYMASK a236120 P = to what currently in HEPYQA (if P was used before reset in HEPYQA to new one and reset to that one in HEPYMASK)

AU A236120

I BY "Jun22#2022"

/

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

Source database to be used for the refresh (target database)

HEPYMASK

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEPYQA/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEPYQA/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation. Example below

HEPYMASK> rmanc

Recovery Manager: Release 19.0.0.0.0 - Production on Thu Aug 11 11:08:44 2022

Version 19.12.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.

connected to target database: HEPYMASK (DBID=**2599337158**)

connected to recovery catalog database

RMAN> list incarnation of database;

List of Database Incarnations

DB Key Inc Key DB Name DB ID STATUS Reset SCN Reset Time

------- ------- -------- ---------------- --- ---------- ----------

459001 460563 HEPYMASK 2547536601 PARENT 154335432 01-JUN-2015 12:49:25

459001 459002 HEPYMASK 2547536601 CURRENT 13575729199048 11-NOV-2020 21:29:36

534101 535895 HEPYMASK 2555942134 PARENT 154335432 01-JUN-2015 12:49:25

534101 534102 HEPYMASK 2555942134 CURRENT 13582787943561 16-FEB-2021 04:22:06

585501 587382 HEPYMASK 2577875722 PARENT 154335432 01-JUN-2015 12:49:25

585501 585502 HEPYMASK 2577875722 CURRENT 13599512463784 22-OCT-2021 01:01:56

638767 640648 HEPYMASK 2585647097 PARENT 154335432 01-JUN-2015 12:49:25

638767 638768 HEPYMASK 2585647097 CURRENT 13606172786460 18-JAN-2022 23:44:38

675019 676921 HEPYMASK 2593088884 PARENT 154335432 01-JUN-2015 12:49:25

675019 675020 HEPYMASK 2593088884 CURRENT 13614095639003 12-APR-2022 02:54:41

698672 700686 HEPYMASK 2599337158 PARENT 154335432 01-JUN-2015 12:49:25

**698672 698673 HEPYMASK 2599337158 CURRENT 13621955629773 22-JUN-2022 10:32:41**/home/oracle/tls/refresh/HEPYQA/**duplicate\_HEPYQA\_fr\_tape.rman**

1. Make sure you have good HEPYMASK Level0 + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

Commands for reference to run by **Unix Admin/Storman**:

Winpdd3541:

**filesys fastcopy source /data/col1/ora\_prd\_boost7966 destination /data/col1/ora\_prd\_boost7966\_restore**

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

Get from TPAM

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYQA

. oraenv

HEPYQA

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

~~##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>~~

~~nohup ./clone\_db.sh HEPYQA 1559 HEPYMASK 1530 xhepydbm21q <<< $'4\nzyz99999\n' &~~

## DDboost

cd /home/oracle/tls/refresh/HEPYQA

nohup ./clone\_db\_fr\_tape.sh HEPYQA 1559 HEPYMASK 1530 xhepydbm21q 6144 <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA/rman

tail -f xxxx

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

Steps in case clone failed and needs to be restarted

1.Shutdown the instance

2.Remove instance files from $DBS (rm \*HEPYQA\*)

3.Remove the database entry from the oratab

4.Remove the database directories from +asm. In asmcmd rm -r \*/HEPYQA\_XHEPYDBW21Q

5. Remove Listener

srvctl stop listener -l HEPYQA

srvctl remove listener -l HEPYQA

!! You may need to do that below

shutdown abort

srvctl config database -l HEPYQA

srvctl stop listener -l HEPYQA

srvctl remove listener -l HEPYQA

How to restore dropped database in case clone did not work

--Add HEPYQA entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – Mar04#2021

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Nov\_18\_2021

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Check make sure you can connect remotely via DBArtisan for example

Resume all OEM jobs that were disabled prior clone.

Last time following bootstrap related index was missing. Add if needed

CREATE INDEX PROD.CCEOC\_AEDBA\_1

ON PROD.CONSLTD\_CLM\_EPISODES\_OF\_CARE(HCC\_CLM\_NBR)

TABLESPACE INDX4 ONLINE PARALLEL 4;

ALTER INDEX PROD.CCEOC\_AEDBA\_1 NOPARALLEL;

\*\*\* Step to extract custom DW index for bootstrap\*\*

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA

2) get\_custom\_indexes\_ddl.sh

4)

mv dw\_custom\_indexes\_ddl\_20220815\_090418.out create\_dw\_qa\_custom\_indexes\_20220815.sql

vi create\_dw\_qa\_custom\_indexes\_20220815.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa\_custom\_indexes.out

alter session force parallel ddl parallel 4;

spool off

5) Copy file to HEDWQA box

scp /home/oracle/tls/idx/create\_dw\_qa\_custom\_indexes.sql xhedwdbw21q:/home/oracle/tls/idx/create\_dw\_qa\_custom\_indexes\_Jun2022.sql

**HEDWQA prep for Bootstrap steps**

• Drop HEDWQA Standby DataBase

Logon to the database server hosting Standby database HEDWQA (xhedwdbm21q)

. oraenv

HEDWQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWQA

Get from TPAM

None Prod sys: Zyz#99999

Logon to the database server hosting Primary database HEDWQA (xhedwdbw21q)

. oraenv

HEDWQA

cd $SCRIPTS

**Suspend OEM backups**

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Bootstrap move database back to archivelog mode and run Level0 + archivelog backups

**UnSuspend OEM backups**

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

\*\*\*\*11/02/2022 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'6\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

asmcmd ls -l IND\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

~~cd $HOME/HEPYMASK/refresh~~

AU A236120

I BY "xxx"

/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

**Drop indexes**

cd /home/oracle/tls/refresh/HEPYMASK

@drop\_indexes\_POSTAL\_ADDRESS.sql

@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql

@drop\_indexes\_CONSOLIDATED\_CLAIM.sql

**Add indexes back after masking**

cd /home/oracle/tls/refresh/HEPYMASK

**nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &**

@add\_indexes\_CAPITATED\_PAYMENT\_LINE.sql

**nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &**

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

* We had issues in the past with OEM so run backup via script below instead.

or

cd $HOME/tls/rman

nohup backup\_hepymask\_aft\_rfrsh.sh HEPYMASK backup\_hepymask\_aft\_rfrsh.rman

Once backups completed move database to norachivelog mode

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

* Run OEM Level 0 and archivelog backups
* We had issues in the past with OEM so run backup via script below instead.

Or

cd $HOME/tls/rman

nohup backup\_hepymask\_aft\_mask.sh HEPYMASK backup\_hepymask\_aft\_mask.rman

\*\*\*\*11/30/2022 – HEPYCFG from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

!!! Current HEPYTST located on xhepydbw24d (Actifio) so we are running pre clone from that server. Please note that all output dir need to be copied to new target xhepydbm801p server where new HEPYCFG will reside going forward. Use that dir for post clone script that will be running from new server.

This is only one time thing for first time.!!!

~~Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)~~

• Run script prior to clone refresh. (See script for details).

!! reset HEPYTST a236120 P = to what currently in HEPYPRD

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYTST (xhepydbw24d)

. oraenv

HEPYTST

cd $HOME/tls/refresh/HEPYTST

./clone\_pre\_steps\_eb.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYTST

Source database to be used for the refresh (target database)

HEPYPRD

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

!! Copy Mon\_DD\_YYYY directory to appropriate directory on target server!!

!! Replace HEPYTST with HEPYCFG (both file names and inside of files)

!!!Copy dmp and log from one server to another /oraexport/u01/datapump

scp xxx xhepydbm801p:/oraexport/u01/datapump/xxx

!!! All above could be done while clone in progress

Login to Target Server: xhepydbm801p

cd /home/oracle/tls/refresh/HEPYCFG

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEPYCFG/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEPYCFG/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation.

/home/oracle/tls/refresh/HEPYCFG/**duplicate\_HEPYPRD\_fr\_tape.rman**

. oraenv

19121

vi init\_for\_clone.pfile

DB\_NAME=HEPYCFG

SGA\_TARGET=2G

export ORACLE\_SID=HEPYCFG

startup pfile=/orahome/u01/app/oracle/product/19.12.1/db\_1/dbs/init\_for\_clone.pfile force nomount;

cd /home/oracle/tls/refresh/HEPYCFG

rmanc

or

rman

connect target /

@setup\_ddboost\_for\_fast\_copy\_restore.rman

sqlplus / as sysdba

shutdown abort

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYCFG

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYCFG

nohup ./clone\_db\_fr\_tape.sh HEPYCFG 1561 HEPYPRD 1574 xhepydbm1p 6144 <<< $'6\ nXXXXXX \n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYCFG

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYCFG/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYCFG

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYCFG\_XHEPYDBM801P/datafile | wc -l

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYCFG\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYCFG\_ XHEPYDBM801P

srvctl stop listener -l HEPYCFG

srvctl remove listener -l HEPYCFG

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

HEPYCFG

cd $HOME/tls/refresh/HEPYCFG

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYCFG

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Check make sure you can connect remotely via DBArtisan

Resume all OEM jobs that were disabled prior clone and crontab jobs.

\*\*\*\*11/30/2022 – HEDWCFG from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

!!! Current HEDWTST located on xhedwdbw24d (Actifio) so we are running pre clone from that server. Please note that all output dir need to be copied to new target xhedwdbm801p server where new HEDWCFG will reside going forward. Use that dir for post clone script that will be running from new server.

This is only one time thing for first time.!!!

~~Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)~~

• Run script prior to clone refresh. (See script for details).

!! reset HEDWTST a236120 P = to what currently in HEDWPRD

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEDWTST (xhedwdbw24d)

. oraenv

HEDWTST

cd $HOME/tls/refresh/HEDWTST

./clone\_pre\_steps\_eb.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWTST

Source database to be used for the refresh (target database)

HEDWPRD

**Enter Schema Owner (e.g. PROD)**

PROD\_DW

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

!! Copy Mon\_DD\_YYYY directory to appropriate directory on target server!!

!! Replace HEPYTST with HEPYCFG (both file names and inside of files)

!!!Copy dmp and log from one server to another /oraexport/u01/datapump

scp xxx xhedwdbm801p:/oraexport/u01/datapump/xxx

!!! All above could be done while clone in progress

Login to Target Server: xhedwdbm801p

cd /home/oracle/tls/refresh/HEDWCFG

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEDWCFG/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEDWCFG/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation.

/home/oracle/tls/refresh/HEDWCFG/**duplicate\_HEDWPRD\_fr\_tape.rman**

**!! If this first time. or if was not before DB drop**

. oraenv

19121

vi init\_for\_clone.pfile

DB\_NAME=HEDWCFG

SGA\_TARGET=2G

export ORACLE\_SID=HEDWCFG

startup pfile=/orahome/u01/app/oracle/product/19.12.1/db\_1/dbs/init\_for\_clone.pfile force nomount;

cd /home/oracle/tls/refresh/HEDWCFG/

**rmanc**

**@setup\_ddboost\_for\_fast\_copy\_restore.rman**

sqlplus / as sysdba

shutdown abort;

Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWCFG

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEDWPRD to HEDWCFG

!! get HEDWPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEDWCFG

nohup ./clone\_db\_fr\_tape.sh HEDWCFG 1563 HEDWPRD 1575 xhedwdbm21p 6144 <<< $'6\ngjMA$6YS\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWCFG

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWCFG/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEDWCFG

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEDWCFG\_XHEDWDBM801P/datafile | wc -l

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEDWCFG\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWCFG\_ XHEDWDBM801P

srvctl stop listener -l HEDWCFG

srvctl remove listener -l HEDWCFG

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $HOME/tls/refresh/HEDWCFG

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWCFG

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Nov\_25\_2022

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Check make sure you can connect remotely via DBArtisan

Resume all OEM jobs that were disabled prior clone and crontab jobs.

\*\*\*\*12/20/2022 – HEPYQA2 from HEPYMASK - DDboost Tape backup **Diff Data Center** \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA2 entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

!! reset HEPYMASK a236120 P = to what currently in HEPYQA2 (if P was used before reset in HEPYQA2 to new one and reset to that one in HEPYMASK)

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYQA2

**-- Make sure following scripts in place if not copy from another server** (for example from **xhepydbw26d**)

**Login to xhepydbw26d**

cd /home/oracle/tls/refresh/HEPYMGR2

scp clone\_db\_fr\_tape.sh xhepydbw22q:/home/oracle/tls/refresh/HEPYQA2/clone\_db\_fr\_tape.sh

**!! rename file based on Source name**

scp duplicate\_HEPYPRD\_fr\_tape.rman xhepydbw22q:/home/oracle/tls/refresh/HEPYQA2/duplicate\_HEPYMASK\_fr\_tape.rman

scp setup\_ddboost\_for\_fast\_copy\_restore.rman xhepydbw22q:/home/oracle/tls/refresh/HEPYQA2/ setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**Example: following entries in all 3 files should be the same as far as Host and dir names**

**run {**

**allocate channel dd01 type 'sbt\_tape' parms 'SBT\_LIBRARY=/orahome/u01/app/oracle/product/19.12.1/db\_1/lib/libddobk.so, ENV=(BACKUP\_HOST=winpdd0821\_lf2,RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost)';**

**send 'set username ddboost\_ora P ddb00st servername winpdd0821\_lf2 storageunit /ora\_prd\_boost3540/xhepydbm21p';**

**release channel dd01;**

**}**

**export RMAN\_AGENT\_HOME=/orahome/u01/app/ddboost**

**export BACKUP\_HOST="winpdd0821\_lf2"**

**export STORAGE\_UNIT="/ora\_prd\_boost3540/xhepydbm21p"**

**allocate auxiliary channel c6 type 'SBT\_TAPE' PARMS 'BLKSIZE=1048576,SBT\_LIBRARY=/orahome/u01/app/ddboost/lib/libddobk.so,ENV=(STORAGE\_UNIT=/ora\_prd\_boost3540/xhepydbm21p,BACKUP\_HOST=winpdd0821\_lf2,ORACLE\_HOME=/orahome/u01/app/oracle/admin/HEPYMGR2/oracle\_home)';**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('01/25/2022 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

1. Make sure you have good HEPYMASK Level0 + ~~Level1~~ + archivelog backup
2. Let Greg Steward know and ask them to start fastcopy and provide DDboost server and dir for connections. Get confirmation with time when he completed.

**Run following script prior to db drop and clone**

**rmac**

@setup\_ddboost\_for\_fast\_copy\_restore.rman

• Drop Auxiliary DataBase

**If this 3.2 TB conversion to 6.4 TB follow this doc** storageModel\_to\_6\_4TB.txt

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYQA2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

!! Had issues last time see notes at the bottom of this document for details. End up going with active clone.

cd /home/oracle/tls/refresh/HEPYQA2

nohup ./clone\_db\_fr\_tape.sh HEPYQA2 1578 HEPYMASK 1530 xhepydbm21q 6144 <<< $'6\nZyz#99999\n' &

or

cd $SCRIPTS

nohup ./clone\_db.sh HEPYQA2 1578 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYQA2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA2\_XHEPYDBW22Q

We had to do last time as well

shutdown abort

srvctl config database -l HEPYQA2

srvctl stop listener -l HEPYQA2

srvctl remove listener -l HEPYQA2

How to restore dropped database in case clone did not work

--Add HEPYQA2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA2 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

~~Apply 19.11.0 PSU back as it was before clone~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.11.0 HEPYMGR2~~

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Feb\_18\_2022

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

**\*\*\* Issues that were encountered in previous clone. To be consider before next clone\*\*\***

**While kicking off ddboost clone HEPYQA2 from HEPYMASK encountered issues related to following errors**

RMAN-00571: ===========================================================

RMAN-00569: =============== ERROR MESSAGE STACK FOLLOWS ===============

RMAN-00571: ===========================================================

RMAN-03002: failure of Duplicate Db command at 12/22/2022 07:54:20

RMAN-05501: aborting duplication of target database

RMAN-03015: error occurred in stored script Memory Script

RMAN-20506: no backup of archived log found

RMAN-06053: unable to perform media recovery because of missing log

RMAN-06025: no backup of archived log for thread 1 with sequence 2826 and starting SCN of 13641666566029 found to restore

**As well saw errors at the begging of duplicate which was missed.**

WARNING: A restore time was estimated based on the supplied UNTIL SCN

channel c1: starting datafile backup set restore

channel c1: restoring SPFILE

output file name=/orahome/u01/app/oracle/product/19.12.1/db\_1/dbs/spfileHEPYQA2.ora

channel c1: reading from backup piece c-2611082687-20221221-04

channel c1: ORA-19870: error while restoring backup piece c-2611082687-20221221-04

ORA-19507: failed to retrieve sequential file, handle="c-2611082687-20221221-04", parms=""

ORA-27029: skgfrtrv: sbtrestore returned error

ORA-19511: non RMAN, but media manager or vendor specific failure, error text:

sbtrestore: Unable to find the restore file 'c-2611082687-20221221-04' on host 'winpdd0821\_lf2'. Error code: 5004

ORA-06512

failover to previous backup

**Solution:** Decided to go with active clone which is worked. Also timings of active clone were similar to ddboost. So recommendation to go with active clone next time during this particular clone.

**Had issues as in the past during clone\_post\_steps.sh run. In step 2. It hung to drop A236120. Tried manually drop and it did not work even after bouncing database. End up killing clone\_post\_steps and manually completing users drop but keeping A236120 because even manual user drop was not allowed to drop this user. So recommendation to modify ext\_drop\_target\_users.sql with following going forward for future clones.**

select 'drop user '||username||' cascade;'

from dba\_users

where regexp\_like (username, '[0123456789]') and (username like 'A\_\_\_\_\_\_' or username like 'N\_\_\_\_\_\_') and username NOT IN ('A236120')

order by created;

\*\* **Step to extract custom DW indexes for bootstrap** (do it prior to bootstrap start) **\*\***

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA2

2) get\_custom\_indexes\_ddl.sh

4)

mv dw\_custom\_indexes\_ddl\_20221223\_090031.out dw\_custom\_indexes\_ddl\_20221223\_090031.sql

vi dw\_custom\_indexes\_ddl\_20221223\_090031.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa2\_custom\_indexes.out

alter session force parallel ddl parallel 4;

spool off

5) Copy file to HEDWQA2 box

scp /home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_20221223\_090031.sql xhedwdbw22q:/home/oracle/tls/idx/create\_dw\_qa2\_custom\_indexes\_Dec2022.sql

Login to HEDWQA2 box

Suspend OEM backup jobs first

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

**\*\*\* Drop 2 synonyms from HEDWQA2** (do it prior to bootstrap start) **\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

DROP SYNONYM "PUBLIC".CLAIM\_FACT

/

DROP SYNONYM PROD\_DW.CLAIM\_FACT

/

**\*\* Extract DDL for CACHE tables from HEDWQA2** (do it prior to bootstrap start) **\*\***

Login to HEDWQA2 box

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@extract\_cache\_tables\_ddl.sql

Table list for references

CACHED\_CLAIMS

CACHED\_CLAIMSSUMMARY

CACHED\_ENROLLMENT

CACHED\_PAYMENTS

CSTMCACHED\_CLAIMS\_AUDIT

CSTMCACHED\_CLAIMS\_EXT

CSTMCACHED\_CUR\_CLAIMS\_EXT

CSTMCACHED\_MEMBER\_FULL

CSTMCACHED\_PRACTITIONER\_EXT

CSTMCACHED\_SUPPLIER\_EXT

DW\_DIM\_LOGGING

TEMP\_TRANSACTIONS

\*\* **Once bootstrap in progress and once bootstrap dropped all PROD\_DW tables add custom indexes back** (check with HE Admin when such step can be completed) **\*\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

cd /home/oracle/tls/idx/

@create\_dw\_qa2\_custom\_indexes\_Dec2022.sql

**\*\*Once Bootstrap completed move database back to archivelog mode and run Level0 + archivelog backups \*\***

Login to HEDWQA2 box

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

**\*\*\* Create cache tables in HEDWQA2 from ddl extract taken prior to bootstrap \*\*\***

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@create\_cache\_tables.sql

**\*\*\* Add 2 synonyms that were dropped before bootstrap \*\***

!! check if Bootstrap created VIEW CLAIM\_FACT if yes drop it manually

CREATE OR REPLACE SYNONYM PROD\_DW.CLAIM\_FACT

FOR PROD\_DW.ALL\_CLAIM\_FACT

/

CREATE OR REPLACE PUBLIC SYNONYM CLAIM\_FACT

FOR PROD\_DW.ALL\_CLAIM\_FACT

/

**\*\*\* Recompile \*\*\***

sqlplus / as sysdba

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

\*\*\*\*01/23/2023 – HEPYSTS from HEPYQA2 from DDBOOST tape backup same Data center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYSTS entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA2 a236120 P = to what currently in HEPYSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEPYQA2)

~~AU A236120~~

~~I BY "Apr07#2020"~~

~~/~~

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Source database to be used for the refresh (target database)

HEPYQA2

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYSTS

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior or if this clone within same datacenter or repeat clone. Just get info form rmanc (show all)**

clone\_db\_fr\_tape.sh

duplicate\_HEPYQA2\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYSTS

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYSTS

None Prod sys: Zyz#99999

**If this 3.2 TB conversion to 6.4 TB follow this doc** storageModel\_to\_6\_4TB.txt

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA2 to HEPYSTS

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYSTS

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

!! Had issues last time see notes at the bottom of this document for details. End up going with active clone.

~~cd $SCRIPTS~~

~~nohup ./clone\_db.sh HEPYSTS 1572 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &~~

cd /home/oracle/tls/refresh/HEPYSTS

nohup ./clone\_db\_fr\_tape.sh HEPYSTS 1572 HEPYQA2 1578 xhepydbw22q 6144 <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYSTS\_XHEPYDBW21S

srvctl stop listener -l HEPYSTS

srvctl remove listener -l HEPYSTS

How to restore dropped database in case clone did not work

--Add HEPYSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYSTS restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

~~Apply 19.11.0 PSU back as it was before clone~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.11.0 HEPYMGR2~~

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jan\_23\_2023

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*01/23/2023 – HEDWSTS from HEDWQA2 from DDBOOST tape backup same Data center\*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWSTS entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEDWQA2 a236120 P = to what currently in HEDWSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEDWQA2)

~~AU A236120~~

~~I BY "Apr07#2020"~~

~~/~~

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

Source database to be used for the refresh (target database)

HEDWQA2

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEDWSTS

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEDWQA2\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEDWSTS

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWSTS

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEDWSTS from HEDWQA2

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEDWSTS

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

cd $HOME/tls/refresh/HEDWSTS

nohup ./clone\_db\_fr\_tape.sh HEDWSTS 1573 HEDWQA2 1579 xhedwdbw22q 600 <<< $'6\nZyz#99999\n' &

~~nohup ./clone\_db.sh HEDWSTS 1573 HEDWQA2 1579 xhedwdbw22q <<< $'6\nZyz#99999\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEDWSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWSTS\_XHEDWDBW21S

srvctl stop listener -l HEDWSTS

srvctl remove listener -l HEDWSTS

How to restore dropped database in case clone did not work

--Add HEDWSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWSTS restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jan\_23\_2023

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

~~!! Copy script from QA2 box.~~

~~cd /home/oracle/eb/extract\_ddl~~

~~sqlplus / as sysdba~~

~~@create\_cache\_tables.sql~~

~~INSERT INTO PROD\_DW.TABLES\_THAT\_CAN\_BE\_TRUNCATED VALUES ('PROD\_DW','CSTMCACHED\_PRACTITIONER\_EXT');~~

~~commit;~~

**~~\*\*\* Add 2 synonyms that were dropped before bootstrap \*\*~~**

~~!! check if Bootstrap created VIEW CLAIM\_FACT if yes drop it manually~~

~~CREATE OR REPLACE SYNONYM PROD\_DW.CLAIM\_FACT~~

~~FOR PROD\_DW.ALL\_CLAIM\_FACT~~

~~/~~

~~CREATE OR REPLACE PUBLIC SYNONYM CLAIM\_FACT~~

~~FOR PROD\_DW.ALL\_CLAIM\_FACT~~

~~/~~

**~~\*\*\* Recompile \*\*\*~~**

~~sqlplus / as sysdba~~

~~@?/rdbms/admin/utlrp.sql~~

~~select count(\*)~~

~~from dba\_objects~~

~~where status = 'INVALID';~~

~~select \* from aedba.rman\_heartbeat order by 2~~

\*\*\*\*01/26/2023 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

!! Move HEPYMASK to archivelog mode first if needed

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'6\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

asmcmd ls -l IND\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

cd $HOME/HEPYMASK/refresh

AU A236120

I BY "xxx"

/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

**Drop indexes**

cd /home/oracle/tls/refresh/HEPYMASK

@drop\_indexes\_POSTAL\_ADDRESS.sql

@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql

@drop\_indexes\_CONSOLIDATED\_CLAIM.sql

@drop\_indexes\_UB92.sql

@drop\_indexes\_HCFA1500.sql

@drop\_indexes\_MEMBERSHIP.sql

@drop\_indexes\_PERSON\_NAME.sql

@drop\_indexes\_INSURANCE\_INFORMATION.sql

@drop\_indexes\_LICENSE\_NUMBER.sql

**Add indexes back after masking**

cd /home/oracle/tls/refresh/HEPYMASK

**nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &**

**nohup add\_indexes\_CAPITATED\_PAYMENT\_LINE.sh HEPYMASK > add\_indexes\_CAPITATED\_PAYMENT\_LINE.stdout 2>&1 &**

**nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &**

**nohup add\_indexes\_UB92.sh HEPYMASK > add\_indexes\_UB92.stdout 2>&1 &**

**nohup add\_indexes\_HCFA1500.sh HEPYMASK > add\_indexes\_HCFA1500.stdout 2>&1 &**

**nohup add\_indexes\_MEMBERSHIP.sh HEPYMASK > add\_indexes\_MEMBERSHIP.stdout 2>&1 &**

**nohup add\_indexes\_PERSON\_NAME.sh HEPYMASK > add\_indexes\_PERSON\_NAME.stdout 2>&1 &**

**nohup add\_indexes\_INSURANCE\_INFORMATION.sh HEPYMASK > add\_indexes\_INSURANCE\_INFORMATION.stdout 2>&1 &**

**nohup add\_indexes\_LICENSE\_NUMBER.sh HEPYMASK > add\_indexes\_LICENSE\_NUMBER.stdout 2>&1 &**

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

* Run OEM Level 0 and archivelog backups

\*\*\*\*02/14/2023 – HEPYCFG from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYCFG entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYCFG a236120 P = to what currently in HEPYPRD

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

HEPYCFG

cd $HOME/tls/refresh/HEPYCFG

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYCFG

Source database to be used for the refresh (target database)

HEPYPRD

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

Login to Target Server: xhepydbm801p

cd /home/oracle/tls/refresh/HEPYCFG

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEPYCFG/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEPYCFG/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation.

/home/oracle/tls/refresh/HEPYCFG/**duplicate\_HEPYPRD\_fr\_tape.rman**

cd /home/oracle/tls/refresh/HEPYCFG

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYCFG exist on xhepydbm801p drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

HEPYCFG

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYCFG

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYCFG

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYCFG

nohup ./clone\_db\_fr\_tape.sh HEPYCFG 1561 HEPYPRD 1574 xhepydbm1p 6144 <<< $'4\nyrRN+1UG\n' &

nohup ./clone\_db.sh HEPYCFG 1561 HEPYPRD 1574 xhepydbw21p <<< $'8\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYCFG

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYCFG/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYCFG

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYCFG\_XHEPYDBM801P/datafile | wc -l

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYCFG\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYCFG\_ XHEPYDBM801P

srvctl stop listener -l HEPYCFG

srvctl remove listener -l HEPYCFG

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

HEPYCFG

cd $HOME/tls/refresh/HEPYCFG

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYCFG

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Check make sure you can connect remotely via DBArtisan

Resume all OEM jobs that were disabled prior clone and crontab jobs.

\*\*\*\*02/14/2023 – HEDWCFG from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWCFG entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEDWCFG a236120 P = to what currently in HEDWPRD

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $HOME/tls/refresh/HEDWCFG

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWCFG

Source database to be used for the refresh (target database)

HEDWPRD

**Enter Schema Owner (e.g. PROD)**

PROD\_DW

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

Login to Target Server: xhedwdbm801p

cd /home/oracle/tls/refresh/HEDWCFG

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEDWCFG/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEDWCFG/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation.

/home/oracle/tls/refresh/HEDWCFG/**duplicate\_HEDWPRD\_fr\_tape.rman**

cd /home/oracle/tls/refresh/HEDWCFG

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWCFG

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEDWPRD to HEDWCFG

!! get HEDWPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEDWCFG

nohup ./clone\_db\_fr\_tape.sh HEDWCFG 1563 HEDWPRD 1575 xhedwdbm21p 600 <<< $'4\ngjMA$6YS\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWCFG

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWCFG/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEDWCFG

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEDWCFG\_XHEDWDBM801P/datafile | wc -l

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEDWCFG\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWCFG\_ XHEDWDBM801P

srvctl stop listener -l HEDWCFG

srvctl remove listener -l HEDWCFG

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $HOME/tls/refresh/HEDWCFG

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWCFG

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Nov\_25\_2022

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Check make sure you can connect remotely via DBArtisan

Resume all OEM jobs that were disabled prior clone and crontab jobs.

\*\*\*\*03/02/2023 – HEPYQA3 from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA3 entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

!! reset HEPYMASK a236120 P = to what currently in HEPYQA3 (if P was used before reset in HEPYQA3 to new one and reset to that one in HEPYMASK)

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

**If this 3.2 TB conversion to 6.4 TB follow this doc** storageModel\_to\_6\_4TB.txt

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA3

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA3

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYQA3

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

!! Had issues last time see notes at the bottom of this document for details. End up going with active clone.

cd $SCRIPTS

nohup ./clone\_db\_eb.sh HEPYQA3 1572 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA3

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA3/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYQA3\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA3\_XHEPYDBW23Q

We had to do last time as well

shutdown abort

srvctl config database -l HEPYQA3

srvctl stop listener -l HEPYQA3

srvctl remove listener -l HEPYQA3

How to restore dropped database in case clone did not work

--Add HEPYQA3 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA3 restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

~~Apply 19.11.0 PSU back as it was before clone~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.11.0 HEPYMGR2~~

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mar\_02\_2023

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\* **Step to extract custom DW indexes for bootstrap** (do it prior to bootstrap start) **\*\***

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA3

2) get\_custom\_indexes\_ddl.sh

4)

mv dw\_custom\_indexes\_ddl\_20230301\_083002.out dw\_custom\_indexes\_ddl\_20230301\_083002.sql

vi dw\_custom\_indexes\_ddl\_20230301\_083002.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa3\_custom\_indexes.out

alter session force parallel ddl parallel 4;

spool off

5) Copy file to HEDWQA3 box

scp /home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_20221223\_090031.sql xhedwdbw23q:/home/oracle/tls/idx/create\_dw\_qa3\_custom\_indexes\_Mar2023.sql

Login to HEDWQA3 box

Suspend OEM backup jobs first

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

**\*\*\* Drop 2 synonyms from HEDWQA3** (do it prior to bootstrap start) **\*\***

Login to HEDWQA3 box

sqlplus / as sysdba

DROP SYNONYM "PUBLIC".CLAIM\_FACT

/

DROP SYNONYM PROD\_DW.CLAIM\_FACT

/

**\*\* Extract DDL for CACHE tables from HEDWQA3** (do it prior to bootstrap start) **\*\***

Login to HEDWQA3 box

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@extract\_cache\_tables\_ddl.sql

Table list for references

CACHED\_CLAIMS

CACHED\_CLAIMSSUMMARY

CACHED\_ENROLLMENT

CACHED\_PAYMENTS

CSTMCACHED\_CLAIMS\_AUDIT

CSTMCACHED\_CLAIMS\_EXT

CSTMCACHED\_CUR\_CLAIMS\_EXT

CSTMCACHED\_MEMBER\_FULL

CSTMCACHED\_PRACTITIONER\_EXT

CSTMCACHED\_SUPPLIER\_EXT

DW\_DIM\_LOGGING

TEMP\_TRANSACTIONS

\*\* **Once bootstrap in progress and once bootstrap dropped all PROD\_DW tables add custom indexes back** (check with HE Admin when such step can be completed) **\*\*\***

Login to HEDWQA3 box

sqlplus / as sysdba

cd /home/oracle/tls/idx/

@create\_dw\_qa3\_custom\_indexes\_Mar2023.sql

**\*\*Once Bootstrap completed move database back to archivelog mode and run Level0 + archivelog backups \*\***

Login to HEDWQA3 box

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

**\*\*\* Create cache tables in HEDWQA3 from ddl extract taken prior to bootstrap \*\*\***

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@create\_cache\_tables.sql

**\*\*\* Add 2 synonyms that were dropped before bootstrap \*\***

CREATE OR REPLACE SYNONYM PROD\_DW.CLAIM\_FACT

FOR PROD\_DW.ALL\_CLAIM\_FACT

/

CREATE OR REPLACE PUBLIC SYNONYM CLAIM\_FACT

FOR PROD\_DW.ALL\_CLAIM\_FACT

/

CREATE OR REPLACE SYNONYM PROD\_DW.CACHED\_ACCOUNT

FOR AE\_CUSTOM.CACHED\_ACCOUNT\_AE;

CREATE OR REPLACE SYNONYM PROD\_DW.CACHED\_BENEFIT\_PLAN

FOR AE\_CUSTOM.CACHED\_BENEFIT\_PLAN\_AE;

CREATE OR REPLACE SYNONYM PROD\_DW.CACHED\_ENROLLMENTVIEW

FOR AE\_CUSTOM.CACHED\_ENROLLMENTVIEW\_AE;

CREATE OR REPLACE SYNONYM PROD\_DW.CACHED\_MEMBER

FOR AE\_CUSTOM.CACHED\_MEMBER\_AE;

CREATE OR REPLACE SYNONYM PROD\_DW.CACHED\_PRACTITIONER

FOR AE\_CUSTOM.CACHED\_PRACTITIONER\_AE;

CREATE OR REPLACE SYNONYM PROD\_DW.CACHED\_SUPPLIER

FOR AE\_CUSTOM.CACHED\_SUPPLIER\_AE;

CREATE OR REPLACE SYNONYM PROD\_DW.CACHED\_SUPPLIER\_LOCATION

FOR AE\_CUSTOM.CACHED\_SUPPLIER\_LOCATION\_AE;

**\*\*\* Recompile \*\*\***

sqlplus / as sysdba

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

\*\*\*\*03/31/2023 – HEPYSTS from HEPYQA from DDBOOST tape backup same Data center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYSTS entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA a236120 P = to what currently in HEPYSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEPYQA)

~~AU A236120~~

~~I BY "Apr07#2020"~~

~~/~~

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Source database to be used for the refresh (target database)

HEPYQA

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEPYSTS

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior or if this clone within same datacenter or repeat clone. Just get info form rmanc (show all)**

clone\_db\_fr\_tape.sh

duplicate\_HEPYQA\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYSTS

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYSTS

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA to HEPYSTS

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYSTS

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

!! Had issues last time see notes at the bottom of this document for details. End up going with active clone.

~~cd $SCRIPTS~~

~~nohup ./clone\_db\_eb.sh HEPYSTS 1572 HEPYQA 1559 xhepydbw21q <<< $'6\nZyz#99999\n' &~~

cd /home/oracle/tls/refresh/HEPYSTS

nohup ./clone\_db\_fr\_tape.sh HEPYSTS 1572 HEPYQA 1559 xhepydbw21q 6144 <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYSTS\_XHEPYDBW21S

srvctl stop listener -l HEPYSTS

srvctl remove listener -l HEPYSTS

How to restore dropped database in case clone did not work

--Add HEPYSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYSTS restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mar\_31\_2023

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*03/31/2023 – HEDWSTS from HEDWQA from DDBOOST tape backup same Data center\*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWSTS entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEDWQA a236120 P = to what currently in HEDWSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEDWQA)

~~AU A236120~~

~~I BY "Apr07#2020"~~

~~/~~

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

Source database to be used for the refresh (target database)

HEDWQA

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

cd /home/oracle/tls/refresh/HEDWSTS

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEDWQA\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEDWSTS

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWSTS

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEDWSTS from HEDWQA

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEDWSTS

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

cd $HOME/tls/refresh/HEDWSTS

nohup ./clone\_db\_fr\_tape.sh HEDWSTS 1573 HEDWQA 1560 xhedwdbw21q 600 <<< $'6\nZyz#99999\n' &

~~nohup ./clone\_db.sh HEDWSTS 1573 HEDWQA 1560 xhedwdbw21q <<< $'6\nZyz#99999\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEDWSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWSTS\_XHEDWDBW21S

srvctl stop listener -l HEDWSTS

srvctl remove listener -l HEDWSTS

How to restore dropped database in case clone did not work

--Add HEDWSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWSTS restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Mar\_31\_2023

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

\*\*\*\*04/03/2023 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

!! Move HEPYMASK to archivelog mode first if needed

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'6\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

asmcmd ls -l IND\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

cd $HOME/HEPYMASK/refresh

AU A236120

I BY "xxx"

/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

**Drop indexes**

cd /home/oracle/tls/refresh/HEPYMASK

**@drop\_indexes\_POSTAL\_ADDRESS.sql**

**@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql**

**@drop\_indexes\_CONSOLIDATED\_CLAIM.sql**

@drop\_indexes\_UB92.sql

**@drop\_indexes\_HCFA1500.sql**

**@drop\_indexes\_MEMBERSHIP.sql**

@drop\_indexes\_PERSON\_NAME.sql

@drop\_indexes\_INSURANCE\_INFORMATION.sql

**@drop\_indexes\_LICENSE\_NUMBER.sql**

**Add indexes back after masking**

cd /home/oracle/tls/refresh/HEPYMASK

nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &

nohup add\_indexes\_CAPITATED\_PAYMENT\_LINE.sh HEPYMASK > add\_indexes\_CAPITATED\_PAYMENT\_LINE.stdout 2>&1 &

nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &

nohup add\_indexes\_UB92.sh HEPYMASK > add\_indexes\_UB92.stdout 2>&1 &

nohup add\_indexes\_HCFA1500.sh HEPYMASK > add\_indexes\_HCFA1500.stdout 2>&1 &

nohup add\_indexes\_MEMBERSHIP.sh HEPYMASK > add\_indexes\_MEMBERSHIP.stdout 2>&1 &

nohup add\_indexes\_PERSON\_NAME.sh HEPYMASK > add\_indexes\_PERSON\_NAME.stdout 2>&1 &

nohup add\_indexes\_INSURANCE\_INFORMATION.sh HEPYMASK > add\_indexes\_INSURANCE\_INFORMATION.stdout 2>&1 &

**nohup add\_indexes\_LICENSE\_NUMBER.sh HEPYMASK > add\_indexes\_LICENSE\_NUMBER.stdout 2>&1 &**

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode. Disable OEM Jobs

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

* Run OEM Level 0 and archivelog backups

\*\*\*\*05/08/2023 – HEPYCFG from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYCFG entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYCFG a236120 P = to what currently in HEPYPRD

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

HEPYCFG

cd $HOME/tls/refresh/HEPYCFG

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYCFG

Source database to be used for the refresh (target database)

HEPYPRD

**Enter Schema Owner (e.g. PROD)**

PROD

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

Login to Target Server: xhepydbm801p

cd /home/oracle/tls/refresh/HEPYCFG

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEPYCFG/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEPYCFG/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation.

/home/oracle/tls/refresh/HEPYCFG/**duplicate\_HEPYPRD\_fr\_tape.rman**

cd /home/oracle/tls/refresh/HEPYCFG

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYCFG exist on xhepydbm801p drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

HEPYCFG

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYCFG

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYCFG

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYCFG

nohup ./clone\_db\_fr\_tape.sh HEPYCFG 1561 HEPYPRD 1574 xhepydbm1p 6144 <<< $'6\nyrRN+1UG\n' &

~~nohup ./clone\_db.sh HEPYCFG 1561 HEPYPRD 1574 xhepydbw21p <<< $'8\nyrRN+1UG\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYCFG

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYCFG/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYCFG

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYCFG\_XHEPYDBM801P/datafile | wc -l

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYCFG\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYCFG\_ XHEPYDBM801P

srvctl stop listener -l HEPYCFG

srvctl remove listener -l HEPYCFG

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYCFG (xhepydbm801p)

. oraenv

HEPYCFG

cd $HOME/tls/refresh/HEPYCFG

!! reset HEPYCFG your AID P if you do not know what P came with refresh

AU A236120

I BY "xxx"

/

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYCFG

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_08\_2023

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Check make sure you can connect remotely via DBArtisan

Resume all OEM jobs that were disabled prior clone and crontab jobs.

\*\*\*\*05/08/2023 – HEDWCFG from HEDWPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWCFG entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $HOME/tls/refresh/HEDWCFG

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWCFG

Source database to be used for the refresh (target database)

HEDWPRD

**Enter Schema Owner (e.g. PROD)**

PROD\_DW

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

Login to Target Server: xhedwdbm801p

cd /home/oracle/tls/refresh/HEDWCFG

**-- Make sure following scripts in place if not copy from another server**

**-- If this repeat clone no changes requires in 2 script below**

/home/oracle/tls/refresh/HEDWCFG/**clone\_db\_fr\_tape.sh**

/home/oracle/tls/refresh/HEDWCFG/**setup\_ddboost\_for\_fast\_copy\_restore.rman**

**--Always make appropriate change in script below. Mostly need to adjust 2 lines below**

duplicate database XXX dbid XXX incarnation XX to XXX

until time "TO\_DATE('XXX', 'MM/DD/YYYY HH24:MI:SS')"

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation.

/home/oracle/tls/refresh/HEDWCFG/**duplicate\_HEDWPRD\_fr\_tape.rman**

cd /home/oracle/tls/refresh/HEDWCFG

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWCFG

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEDWPRD to HEDWCFG

!! get HEDWPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEDWCFG

nohup ./clone\_db\_fr\_tape.sh HEDWCFG 1563 HEDWPRD 1575 xhedwdbm21p 600 <<< $'4\ngjMA$6YS\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWCFG

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWCFG/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEDWCFG

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEDWCFG\_XHEDWDBM801P/datafile | wc -l

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEDWCFG\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWCFG\_ XHEDWDBM801P

srvctl stop listener -l HEDWCFG

srvctl remove listener -l HEDWCFG

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWCFG (xhedwdbm801p)

. oraenv

HEDWCFG

cd $HOME/tls/refresh/HEDWCFG

!! reset HEDWCFG your AID P if you do not know what P came with refresh

AU A236120

I BY "xxx"

/

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWCFG

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_08\_2023

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Check make sure you can connect remotely via DBArtisan

Resume all OEM jobs that were disabled prior clone and crontab jobs.

\*\*\*\*06/02/2023 – HEPYQA from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

!! reset HEPYMASK a236120 P = to what currently in HEPYQA (if P was used before reset in HEPYQA to new one and reset to that one in HEPYMASK)

AU A236120

I BY "xxx"

/

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

**If this 3.2 TB conversion to 6.4 TB follow this doc** storageModel\_to\_6\_4TB.txt

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYQA

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

!! Had issues last time see notes at the bottom of this document for details. End up going with active clone.

cd $SCRIPTS

nohup ./clone\_db\_eb.sh HEPYQA 1559 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYQA\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA\_XHEPYDBW21Q

We had to do last time as well

shutdown abort

srvctl config database -l HEPYQA

srvctl stop listener -l HEPYQA

srvctl remove listener -l HEPYQA

How to restore dropped database in case clone did not work

--Add HEPYQA3 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA

cd $HOME/tls/refresh/HEPYQA

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jun\_02\_2023

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\* **Step to extract custom DW indexes for bootstrap** (do it prior to bootstrap start) **\*\***

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA

2) get\_custom\_indexes\_ddl.sh

4)

mv dw\_custom\_indexes\_ddl\_20230301\_083002.out dw\_custom\_indexes\_ddl\_20230301\_083002.sql

vi dw\_custom\_indexes\_ddl\_20230301\_083002.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa\_custom\_indexes.out

alter session force parallel ddl parallel 4;

spool off

5) Copy file to HEDWQA box

scp /home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_20230602\_104455.sql xhedwdbw21q:/home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_June2023.sql

\*\*\* Drop HEDWQA Standby database first \*\*\*

Login to Primary HEDWQA box

Suspend OEM backup jobs first

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

**\*\*\* Drop 2 synonyms from HEDWQA** (do it prior to bootstrap start) **\*\***

Login to HEDWQA box

sqlplus / as sysdba

DROP SYNONYM "PUBLIC".CLAIM\_FACT

/

DROP SYNONYM PROD\_DW.CLAIM\_FACT

/

**\*\* Extract DDL for CACHE tables from HEDWQA** (do it prior to bootstrap start) **\*\***

Login to HEDWQA box

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@extract\_cache\_tables\_ddl.sql

Table list for references

CACHED\_CLAIMS

CACHED\_CLAIMSSUMMARY

CACHED\_ENROLLMENT

CACHED\_PAYMENTS

CSTMCACHED\_CLAIMS\_AUDIT

CSTMCACHED\_CLAIMS\_EXT

CSTMCACHED\_CUR\_CLAIMS\_EXT

CSTMCACHED\_MEMBER\_FULL

CSTMCACHED\_PRACTITIONER\_EXT

CSTMCACHED\_SUPPLIER\_EXT

DW\_DIM\_LOGGING

TEMP\_TRANSACTIONS

\*\* **Once bootstrap in progress and once bootstrap dropped all PROD\_DW tables add custom indexes back** (check with HE Admin when such step can be completed) **\*\*\***

Login to HEDWQA box

sqlplus / as sysdba

cd /home/oracle/tls/idx/

@create\_dw\_qa\_custom\_indexes\_June2023.sql

@alter\_custom\_index\_noparallel.sql

**Check to make sure no parallel indexes out there. If yes change them back to NOPARALLEL**

select owner, index\_name, degree from dba\_indexes where owner IN ('PROD\_DW','AE\_CUSTOM') and degree > 1

**\*\*Once Bootstrap completed move database back to archivelog mode and run Level0 + archivelog backups \*\***

Login to HEDWQA box

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

**\*\*\* Create cache tables in HEDWQA from ddl extract taken prior to bootstrap \*\*\***

**\*\*\* Add synonyms that were dropped before bootstrap or wiped out during \*\***

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@create\_cache\_tables.sql

@create\_cache\_synonyms.sql

**\*\*\* Recompile \*\*\***

sqlplus / as sysdba

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

\*\*\* Recreate HEDWQA standby \*\*\*

\*\*\*\*06/12/2023 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

!! Move HEPYMASK to archivelog mode first if needed

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'6\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

cd /orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd ls -l DATA\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

asmcmd ls -l IND\_01/HEPYMASK\_XHEPYDBM21Q/datafile | wc -l

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

AU A236120

I BY "xxx"

/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

**Drop indexes**

cd /home/oracle/tls/refresh/HEPYMASK

**@drop\_indexes\_POSTAL\_ADDRESS.sql**

**@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql**

@drop\_indexes\_CONSOLIDATED\_CLAIM.sql

@drop\_indexes\_UB92.sql

@drop\_indexes\_HCFA1500.sql

@drop\_indexes\_MEMBERSHIP.sql

@drop\_indexes\_PERSON\_NAME.sql

@drop\_indexes\_INSURANCE\_INFORMATION.sql

@drop\_indexes\_LICENSE\_NUMBER.sql

@drop\_indexex\_ATTRIBUTION\_LINE.sql

**Add indexes back after masking**

cd /home/oracle/tls/refresh/HEPYMASK

nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &

nohup add\_indexes\_CAPITATED\_PAYMENT\_LINE.sh HEPYMASK > add\_indexes\_CAPITATED\_PAYMENT\_LINE.stdout 2>&1 &

nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &

nohup add\_indexes\_UB92.sh HEPYMASK > add\_indexes\_UB92.stdout 2>&1 &

nohup add\_indexes\_ATTRIBUTION\_LINE.sh HEPYMASK > add\_indexes\_ATTRIBUTION\_LINE.stdout 2>&1 &

nohup add\_indexes\_HCFA1500.sh HEPYMASK > add\_indexes\_HCFA1500.stdout 2>&1 &

nohup add\_indexes\_MEMBERSHIP.sh HEPYMASK > add\_indexes\_MEMBERSHIP.stdout 2>&1 &

nohup add\_indexes\_PERSON\_NAME.sh HEPYMASK > add\_indexes\_PERSON\_NAME.stdout 2>&1 &

nohup add\_indexes\_INSURANCE\_INFORMATION.sh HEPYMASK > add\_indexes\_INSURANCE\_INFORMATION.stdout 2>&1 &

nohup add\_indexes\_LICENSE\_NUMBER.sh HEPYMASK > add\_indexes\_LICENSE\_NUMBER.stdout 2>&1 &

**TRUNCATE TABLE PROD.TEMP\_PAYABLE\_PAYEE\_ID;**

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode. Disable OEM Jobs

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

* Run OEM Level 0 and archivelog backups

\*\*\*\*08/04/2023 – HEPYQA2 from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA2 entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

!! reset HEPYMASK a236120 P = to what currently in HEPYQA2 (if P was used before reset in HEPYQA2 to new one and reset to that one in HEPYMASK)

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA2

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA2

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYQA2

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

!!Example below

asmcmd

cd FLASH\_01/

rm -r 2020\_11\_30/

cd $SCRIPTS

nohup ./clone\_db\_eb.sh HEPYQA2 1578 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA2

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA2/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYQA2\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA2\_XHEPYDBW22Q

We had to do last time as well

shutdown abort

srvctl config database -l HEPYQA2

srvctl stop listener -l HEPYQA2

srvctl remove listener -l HEPYQA2

How to restore dropped database in case clone did not work

--Add HEPYQA2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA2 restoresavepoint.rman &

**To monitor restore**

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Aug\_04\_2023

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\* **Step to extract custom DW indexes for bootstrap** (do it prior to bootstrap start) **\*\***

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA2

2) get\_custom\_indexes\_ddl.sh

4)

mv dw\_custom\_indexes\_ddl\_20230806.out dw\_custom\_indexes\_ddl\_20230806.sql

vi dw\_custom\_indexes\_ddl\_20230806.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa2\_custom\_indexes.out

alter session force parallel ddl parallel 4;

…

spool off

5) Copy file to HEDWQA2 box

scp /home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_20230806.sql xhedwdbw22q:/home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_Aug2023.sql

Login to Primary HEDWQA2 box

Suspend OEM backup jobs first

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

**\*\*\* Drop 2 synonyms from HEDWQA2** (do it prior to bootstrap start) **\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

DROP SYNONYM "PUBLIC".CLAIM\_FACT

/

DROP SYNONYM PROD\_DW.CLAIM\_FACT

/

**\*\* Extract DDL for CACHE tables from HEDWQA2** (do it prior to bootstrap start) **\*\***

Login to HEDWQA2 box

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@extract\_cache\_tables\_ddl.sql

\*\* **Once bootstrap in progress and once bootstrap dropped all PROD\_DW tables add custom indexes back** (check with HE Admin when such step can be completed) **\*\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

cd /home/oracle/tls/idx/

@create\_dw\_qa\_custom\_indexes\_Aug2023.sql

**Check to make sure no parallel indexes out there. If yes change them back to NOPARALLEL**

select owner, index\_name, degree from dba\_indexes where owner IN ('PROD\_DW','AE\_CUSTOM') and degree > 1

**\*\*Once Bootstrap completed move database back to archivelog mode and run Level0 + archivelog backups + Unlock Users\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

**\*\*\* Create cache tables in HEDWQA2 from ddl extract taken prior to bootstrap \*\*\***

**\*\*\* Add synonyms that were dropped before bootstrap or wiped out during \*\***

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@create\_cache\_tables.sql

@create\_cache\_synonyms.sql

**\*\*\* Recompile \*\*\***

sqlplus / as sysdba

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

\*\*\*\*09/01/2023 – HEPYDBA from HEPYDEV2 (StandBy) DDboost Tape backup same Data Center (did not work)\*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYDBA entries in crontab and suspend Backup jobs in OEM)

cd /home/oracle/tls/refresh/HEPYDBA

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYDEV2\_fr\_tape.rman

setup\_ddboost\_for\_fast\_copy\_restore.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYDBA

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYDBA(xhepydbw21d)

. oraenv

HEPYDBA

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYDBA

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2020\_08\_10/

• Clone Target Database to Auxiliary DataBase

Clone HEPYDEV2 to HEPYDBA

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYDBA (xhepydbw21d)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYDBA

nohup ./clone\_db\_fr\_tape.sh HEPYDBA 1655 HEPYDEV2 1552 xhepydbw25d 204 <<< $'4\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYDBA

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

cd /orahome/u01/app/oracle/admin/HEPYDBA/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYDBA

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYDBA\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYDBA\_XHEPYDBW21D

srvctl stop listener -l HEPYDBA

srvctl remove listener -l HEPYDBA

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYDBA restoresavepoint.rman &

\*\*\*\*10/24/2023 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

!! Move HEPYMASK to archivelog mode first if needed

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_clone.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2023\_09\_25/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'8\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

cd /orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd

cd DATA\_01/

du

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

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/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

**Drop indexes**

cd /home/oracle/tls/refresh/HEPYMASK

**@drop\_indexes\_POSTAL\_ADDRESS.sql**

@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql

**@drop\_indexes\_CONSOLIDATED\_CLAIM.sql**

@drop\_indexes\_UB92.sql

@drop\_indexes\_HCFA1500.sql

**@drop\_indexes\_MEMBERSHIP.sql**

@drop\_indexes\_PERSON\_NAME.sql

**@drop\_indexes\_INSURANCE\_INFORMATION.sql**

@drop\_indexes\_LICENSE\_NUMBER.sql

@drop\_indexes\_ATTRIBUTION\_LINE.sql

**@drop\_indexes\_PAYEE\_BANK\_ACCOUNTS.sql**

**Add indexes back after masking**

cd /home/oracle/tls/refresh/HEPYMASK

**nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &**

nohup add\_indexes\_CAPITATED\_PAYMENT\_LINE.sh HEPYMASK > add\_indexes\_CAPITATED\_PAYMENT\_LINE.stdout 2>&1 &

**nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &**

nohup add\_indexes\_UB92.sh HEPYMASK > add\_indexes\_UB92.stdout 2>&1 &

nohup add\_indexes\_ATTRIBUTION\_LINE.sh HEPYMASK > add\_indexes\_ATTRIBUTION\_LINE.stdout 2>&1 &

nohup add\_indexes\_HCFA1500.sh HEPYMASK > add\_indexes\_HCFA1500.stdout 2>&1 &

**nohup add\_indexes\_MEMBERSHIP.sh HEPYMASK > add\_indexes\_MEMBERSHIP.stdout 2>&1 &**

nohup add\_indexes\_PERSON\_NAME.sh HEPYMASK > add\_indexes\_PERSON\_NAME.stdout 2>&1 &

**nohup add\_indexes\_INSURANCE\_INFORMATION.sh HEPYMASK > add\_indexes\_INSURANCE\_INFORMATION.stdout 2>&1 &**

nohup add\_indexes\_LICENSE\_NUMBER.sh HEPYMASK > add\_indexes\_LICENSE\_NUMBER.stdout 2>&1 &

**nohup add\_indexes\_PAYEE\_BANK\_ACCOUNTS.sh HEPYMASK > add\_indexes\_PAYEE\_BANK\_ACCOUNTS.stdout 2>&1 &**

**~~TRUNCATE TABLE PROD.TEMP\_PAYABLE\_PAYEE\_ID;~~ Moved to script. Double check next time make sure it worked.**

**Provide output to Carol.**

**SELECT a.object\_name,a.created ,b.column\_name,b.data\_type,b.DATA\_LENGTH**

**FROM dba\_objects a,DBA\_TAB\_COLUMNS b**

**WHERE**

**a.owner ='PROD' and a.object\_name = b.table\_name**

**AND a.object\_type = 'TABLE'**

**order by a.created desc**

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode. Disable OEM Jobs

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

\*\*\*\*12/07/2023 – HEPYQA3 from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA3 entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details). – None prod Ps should be same

!! reset HEPYMASK a236120 P = to what currently in HEPYQA3 (if P was used before reset in HEPYQA3 to new one and reset to that one in HEPYMASK)

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYQA3

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYMASK to HEPYQA3

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYQA3

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

!!Example below

asmcmd

cd FLASH\_01/

rm -r 2020\_11\_30/

cd $SCRIPTS

nohup ./clone\_db\_eb.sh HEPYQA3 1572 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYQA3

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYQA3/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS rm \*HEPYQA3\*

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA3\_XHEPYDBW23Q

We had to do last time as well

shutdown abort

srvctl config database -l HEPYQA3

srvctl stop listener -l HEPYQA3

srvctl remove listener -l HEPYQA3

How to restore dropped database in case clone did not work

--Add HEPYQA2 entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYQA3 restoresavepoint.rman &

**To monitor restore**

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYQA3 (xhepydbw23q)

. oraenv

HEPYQA3

cd $HOME/tls/refresh/HEPYQA3

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA3

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Dec\_07\_2023

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\* **Step to extract custom DW indexes for bootstrap** (do it prior to bootstrap start) **\*\***

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA3

2) get\_custom\_indexes\_ddl.sh

4)

mv dw\_custom\_indexes\_ddl\_20231204.out dw\_custom\_indexes\_ddl\_20231204.sql

vi dw\_custom\_indexes\_ddl\_20230806.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa2\_custom\_indexes.out

alter session force parallel ddl parallel 4;

…

spool off

5) Copy file to HEDWQA3 box

scp /home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_20231204.sql xhedwdbw23q:/home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_20231204\_Dec2023.sql

Login to Primary HEDWQA3 box

Suspend OEM backup jobs first

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

**\*\*\* Drop 2 synonyms from HEDWQA3** (do it prior to bootstrap start) **\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

DROP SYNONYM "PUBLIC".CLAIM\_FACT

/

DROP SYNONYM PROD\_DW.CLAIM\_FACT

/

**\*\* Extract DDL for CACHE tables from HEDWQA3** (do it prior to bootstrap start) **\*\***

Login to HEDWQA3 box

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@extract\_cache\_tables\_ddl.sql

\*\* **Once bootstrap in progress and once bootstrap dropped all PROD\_DW tables add custom indexes back** (check with HE Admin when such step can be completed) **\*\*\***

Login to HEDWQA3 box

sqlplus / as sysdba

cd /home/oracle/tls/idx/

@dw\_custom\_indexes\_ddl\_20231204\_Dec2023.sql

**Check to make sure no parallel indexes out there. If yes change them back to NOPARALLEL**

select owner, index\_name, degree from dba\_indexes where owner IN ('PROD\_DW','AE\_CUSTOM') and degree > 1

**\*\*Once Bootstrap completed move database back to archivelog mode and run Level0 + archivelog backups + Unlock Users\*\***

Login to HEDWQA3 box

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

**\*\*\* Create cache tables in HEDWQA3 from ddl extract taken prior to bootstrap \*\*\***

**\*\*\* Add synonyms that were dropped before bootstrap or wiped out during \*\***

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@create\_cache\_tables.sql

@create\_cache\_synonyms.sql

Enable following crontab job

###\*/15 \* \* \* \* /home/oracle/tls/utility/check\_for\_invalids.sh HEDWQA3 > /dev/null 2>&1

**\*\*\* Recompile \*\*\***

sqlplus / as sysdba

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

\*\*\*\*01/04/2024 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

!! Move HEPYMASK to archivelog mode first if needed

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_clone.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2023\_09\_25/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'8\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

cd /orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd

cd DATA\_01/

du

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

AU A236120

I BY "Oct25#2023"

/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest PSU~~

~~cd $SCRIPTS~~

~~./patch\_db.sh 19.12.0 HEPYMASK~~

**Drop indexes**

cd /home/oracle/tls/refresh/HEPYMASK

**@drop\_indexes\_POSTAL\_ADDRESS.sql**

@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql

**@drop\_indexes\_CONSOLIDATED\_CLAIM.sql**

**@drop\_indexes\_UB92.sql**

**@drop\_indexes\_HCFA1500.sql**

**@drop\_indexes\_MEMBERSHIP.sql**

**@drop\_indexes\_PERSON\_NAME.sql**

@**drop\_indexes\_INSURANCE\_INFORMATION.sql**

@drop\_indexes\_LICENSE\_NUMBER.sql

@drop\_indexes\_ATTRIBUTION\_LINE.sql

**@drop\_indexes\_PAYEE\_BANK\_ACCOUNTS.sql**

**Add indexes back after masking**

cd /home/oracle/tls/refresh/HEPYMASK

**nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &**

nohup add\_indexes\_CAPITATED\_PAYMENT\_LINE.sh HEPYMASK > add\_indexes\_CAPITATED\_PAYMENT\_LINE.stdout 2>&1 &

**nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &**

**nohup add\_indexes\_UB92.sh HEPYMASK > add\_indexes\_UB92.stdout 2>&1 &**

nohup add\_indexes\_ATTRIBUTION\_LINE.sh HEPYMASK > add\_indexes\_ATTRIBUTION\_LINE.stdout 2>&1 &

**nohup add\_indexes\_HCFA1500.sh HEPYMASK > add\_indexes\_HCFA1500.stdout 2>&1 &**

**nohup add\_indexes\_MEMBERSHIP.sh HEPYMASK > add\_indexes\_MEMBERSHIP.stdout 2>&1 &**

**nohup add\_indexes\_PERSON\_NAME.sh HEPYMASK > add\_indexes\_PERSON\_NAME.stdout 2>&1 &**

**nohup add\_indexes\_INSURANCE\_INFORMATION.sh HEPYMASK > add\_indexes\_INSURANCE\_INFORMATION.stdout 2>&1 &**

nohup add\_indexes\_LICENSE\_NUMBER.sh HEPYMASK > add\_indexes\_LICENSE\_NUMBER.stdout 2>&1 &

**nohup add\_indexes\_PAYEE\_BANK\_ACCOUNTS.sh HEPYMASK > add\_indexes\_PAYEE\_BANK\_ACCOUNTS.stdout 2>&1 &**

**Provide output to Carol.**

**SELECT a.object\_name,a.created ,b.column\_name,b.data\_type,b.DATA\_LENGTH**

**FROM dba\_objects a,DBA\_TAB\_COLUMNS b**

**WHERE**

**a.owner ='PROD' and a.object\_name = b.table\_name**

**AND a.object\_type = 'TABLE'**

**order by a.created desc**

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode. Disable OEM Jobs

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

!! Truncate BLOB tables

\*\*\*\*01/31/2024 – HEPYSTS from HEPYQA3 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYSTS entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEPYQA2 a236120 P = to what currently in HEPYSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEPYQA2)

~~AU A236120~~

~~I BY "Apr07#2020"~~

~~/~~

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Source database to be used for the refresh (target database)

HEPYQA3

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYSTS

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEPYQA3 to HEPYSTS

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEPYSTS

**in case if Target Redo log disks smaller than production use following to override source sizes.**

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

…

rm -r 2020\_11\_30/

!! Had issues last time see notes at the bottom of this document for details. End up going with active clone.

cd $SCRIPTS

nohup ./clone\_db\_eb.sh HEPYSTS 1572 HEPYQA3 1572 xhepydbw23q <<< $'6\nZyz#99999\n' &

~~cd /home/oracle/tls/refresh/HEPYSTS~~

~~nohup ./clone\_db\_fr\_tape.sh HEPYSTS 1572 HEPYQA2 1578 xhepydbw22q 6144 <<< $'6\nZyz#99999\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEPYSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYSTS\_XHEPYDBW21S

srvctl stop listener -l HEPYSTS

srvctl remove listener -l HEPYSTS

How to restore dropped database in case clone did not work

--Add HEPYSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYSTS restoresavepoint.rman &

**To monitor restore**

SELECT opname, SOFAR, TOTALWORK,

ROUND(SOFAR/TOTALWORK\*100,2) "%COMPLETE",sysdate + TIME\_REMAINING/3600/24 end\_time

FROM V$SESSION\_LONGOPS

WHERE

TOTALWORK != 0

AND SOFAR != TOTALWORK

order by 1;

or

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEPYSTS (xhepydbw21s)

. oraenv

HEPYSTS

cd $HOME/tls/refresh/HEPYSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYSTS

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jan\_31\_2024

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

AU A236120 ACCOUNT UNLOCK;

select \* from aedba.rman\_heartbeat order by 2

\*\*\*\*01/31/2024 – HEDWSTS from HEDWQA3 \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEDWSTS entries in crontab and suspend Backup jobs in OEM)

• Run script prior to clone refresh. (See script for details).

!! reset HEDWQA3 a236120 P = to what currently in HEDWSTS (if P was used before reset in HEPYSTS to new one and reset to that one in HEDWQA3)

~~AU A236120~~

~~I BY "Apr07#2020"~~

~~/~~

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

Source database to be used for the refresh (target database)

HEDWQA3

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• Drop Auxiliary DataBase

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEDWSTS

None Prod sys: Zyz#99999

• Clone Target Database to Auxiliary DataBase

Clone HEDWSTS from HEDWQA3

!! get HEPYPRD sys P from TPAM and test login (from DBArtisan for example)

(if cloning from none Prod None Prod sys: Zyz#99999

Logon to the database server hosting database HEDWSTS

. oraenv

+ASM

cd $SCRIPTS

in case if Target Redo log disks smaller than production use following to override source sizes.

##usage: $ . clone\_db.sh <target\_db\_name> <target\_db\_port> <source\_db\_name> source\_port> <source\_host> <opt redo sz>

~~cd $HOME/tls/refresh/HEDWSTS~~

~~nohup ./clone\_db\_fr\_tape.sh HEDWSTS 1573 HEDWQA2 1579 xhedwdbw22q 600 <<< $'6\nZyz#99999\n' &~~

nohup ./clone\_db\_eb.sh HEDWSTS 1573 HEDWQA3 1573 xhedwdbw23q <<< $'6\nZyz#99999\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEDWSTS

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

/orahome/u01/app/oracle/admin/HEDWSTS/rman

tail -f xxxx

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEDWSTS\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEDWSTS\_XHEDWDBW21S

srvctl stop listener -l HEDWSTS

srvctl remove listener -l HEDWSTS

How to restore dropped database in case clone did not work

--Add HEDWSTS entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEDWSTS restoresavepoint.rman &

• Run script after the clone refresh. (See script for details).

Logon to the database server hosting database HEDWSTS (xhedwdbw21s)

. oraenv

HEDWSTS

cd $HOME/tls/refresh/HEDWSTS

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEDWSTS

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

Jan\_31\_2024

Mon\_xx\_XXXX

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

\*\*\*\*03/21/2024 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

!! Move HEPYMASK to archivelog mode first if needed

cd /home/oracle/tls/refresh/HEPYMASK

**-- Make sure following scripts in place if not copy from another server and rename accordingly**

**Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.**

clone\_db\_fr\_tape.sh

duplicate\_HEPYPRD\_fr\_tape.rman

setup\_ddboost\_for\_clone.rman

**- Make appropriate changes in these scripts prior to clone**

**!!! Make sure you have correct YEAR in line below**

**until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"**

### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation

cd /home/oracle/tls/refresh/HEPYMASK

Run following script prior to db drop and clone

rmac

@setup\_ddboost\_for\_clone.rman

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd $SCRIPTS

!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.

drop\_database.sh HEPYMASK

None Prod sys: Zyz#99999

!! Check if any old arhivelogs dirs. need to be removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2024\_01\_05/

• Clone Target Database to Auxiliary DataBase

Clone HEPYPRD to HEPYMASK

!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

+ASM

cd $SCRIPTS

cd /home/oracle/tls/refresh/HEPYMASK

nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'8\nyrRN+1UG\n' &

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

cd /orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd

cd DATA\_01/

du

Steps in case clone failed and needs to be restarted

1.Shutdown the instance (shutdown abort)

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

AU A236120

I BY "Oct25#2023"

/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

!! Just in case Prod still under old Oracle Home. Apply latest RU

!! Use Jenkins PATCH\_DB – to apply 19.22.0 RU

**Drop indexes**

cd /home/oracle/tls/refresh/HEPYMASK

**@drop\_indexes\_POSTAL\_ADDRESS.sql**

@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql

**@drop\_indexes\_CONSOLIDATED\_CLAIM.sql**

**@drop\_indexes\_UB92.sql**

**@drop\_indexes\_HCFA1500.sql**

**@drop\_indexes\_MEMBERSHIP.sql**

@drop\_indexes\_PERSON\_NAME.sql

@drop\_indexes\_INSURANCE\_INFORMATION.sql

**@drop\_indexes\_LICENSE\_NUMBER.sql**

@drop\_indexes\_ATTRIBUTION\_LINE.sql

**@drop\_indexes\_PAYEE\_BANK\_ACCOUNTS.sql**

**Add indexes back after masking**

cd /home/oracle/tls/refresh/HEPYMASK

**nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &**

nohup add\_indexes\_CAPITATED\_PAYMENT\_LINE.sh HEPYMASK > add\_indexes\_CAPITATED\_PAYMENT\_LINE.stdout 2>&1 &

**nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &**

**nohup add\_indexes\_UB92.sh HEPYMASK > add\_indexes\_UB92.stdout 2>&1 &**

nohup add\_indexes\_ATTRIBUTION\_LINE.sh HEPYMASK > add\_indexes\_ATTRIBUTION\_LINE.stdout 2>&1 &

**nohup add\_indexes\_HCFA1500.sh HEPYMASK > add\_indexes\_HCFA1500.stdout 2>&1 &**

**nohup add\_indexes\_MEMBERSHIP.sh HEPYMASK > add\_indexes\_MEMBERSHIP.stdout 2>&1 &**

nohup add\_indexes\_PERSON\_NAME.sh HEPYMASK > add\_indexes\_PERSON\_NAME.stdout 2>&1 &

nohup add\_indexes\_INSURANCE\_INFORMATION.sh HEPYMASK > add\_indexes\_INSURANCE\_INFORMATION.stdout 2>&1 &

**nohup add\_indexes\_LICENSE\_NUMBER.sh HEPYMASK > add\_indexes\_LICENSE\_NUMBER.stdout 2>&1 &**

**nohup add\_indexes\_PAYEE\_BANK\_ACCOUNTS.sh HEPYMASK > add\_indexes\_PAYEE\_BANK\_ACCOUNTS.stdout 2>&1 &**

**Provide output to Carol.( This step was added to clone\_post\_steps.sh script, test next time)**

**~~SELECT a.object\_name,a.created ,b.column\_name,b.data\_type,b.DATA\_LENGTH~~**

**~~FROM dba\_objects a,DBA\_TAB\_COLUMNS b~~**

**~~WHERE~~**

**~~a.owner ='PROD' and a.object\_name = b.table\_name~~**

**~~AND a.object\_type = 'TABLE'~~**

**~~order by a.created desc~~**

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode. Disable OEM Jobs

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

ALTER DATABASE FORCE LOGGING;

!! Truncate BLOB tables

\*\*\*\*05/12/2024 – HEPYQA2 from HEPYMASK \*\*\*\*

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYQA2 entries in crontab and suspend Backup jobs in OEM)

Make sure your A or N Oracle database P in sync in both source and target databases.

• **Run pre clone script prior to clone refresh**

Logon to the database server hosting database HEPYQA2 (xhepydbw22q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_pre\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Source database to be used for the refresh (target database)

HEPYMASK

DBA ID (dba id to be used for connecting to the aux and target databases)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter\_P\_here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and you want to start at the failed step number).

1

The above script creates a sub directory underneath where the script resides in the format of Mon\_DD\_YYYY, in this directory will be the scripts to be used in support of the post clone activity and a log detailing the run activity of the pre clone steps that were run.

• **Drop Auxiliary DataBase**

On your computer, open Chrome.

At the top right, click More New Incognito Window.

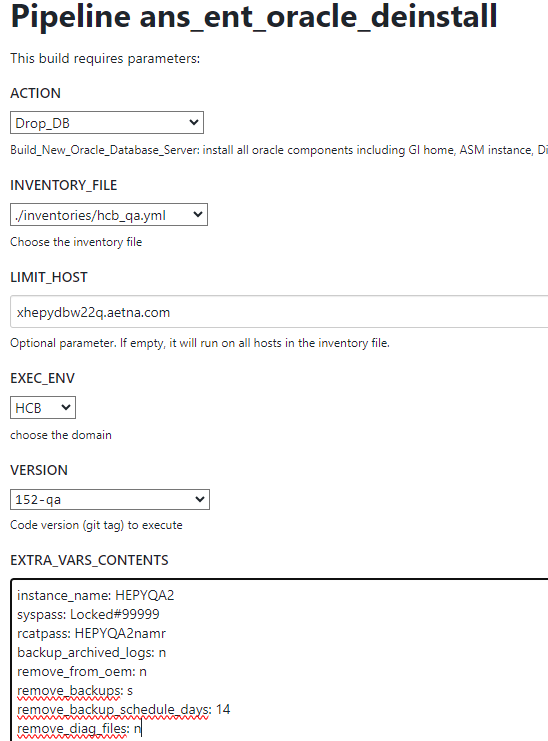
A new window appears. In the top corner, check for the **Incognito** icon .

Paste following URL: <https://ci-autoeng.cvshealth.com/jenkins/>

Login with your cvshealth.com email

Select **DBEngineering** 🡪 **Oracle** 🡪 **ans\_ent\_oracle\_deinstall**

Click **Build with Parameters** and populate as shown below



**instance\_name: HEPYQA2**

**syspass: Zyz#99999**

**rcatpass: HEPYQA2namr**

**backup\_archived\_logs: n**

**remove\_from\_oem: n**

**remove\_backups: s**

**remove\_backup\_schedule\_days: 14**

**remove\_diag\_files: n**

**Start Clone**

On your computer, open Chrome.

At the top right, click More New Incognito Window.

A new window appears. In the top corner, check for the Incognito icon .

Paste following URL: <https://ci-autoeng.cvshealth.com/jenkins/>

Login with your cvshealth.com email

Select **DBEngineering** 🡪 **Oracle** 🡪 **ans\_ent\_oracleinstall**

Click **Build with Parameters** and populate as shown below

**Clone\_DB Action I ran into issue with REDO size check. Rich was able to identify the bug and already updated the ansible code.**

**Once thing I learned today that if Clone\_Db action fails it does not do cleanup at all. Which means DBA still responsible for things like we used while back. See example below**

**Depends where It fails do one or more of those things.**

**1.Shutdown the instance (shutdown abort)**

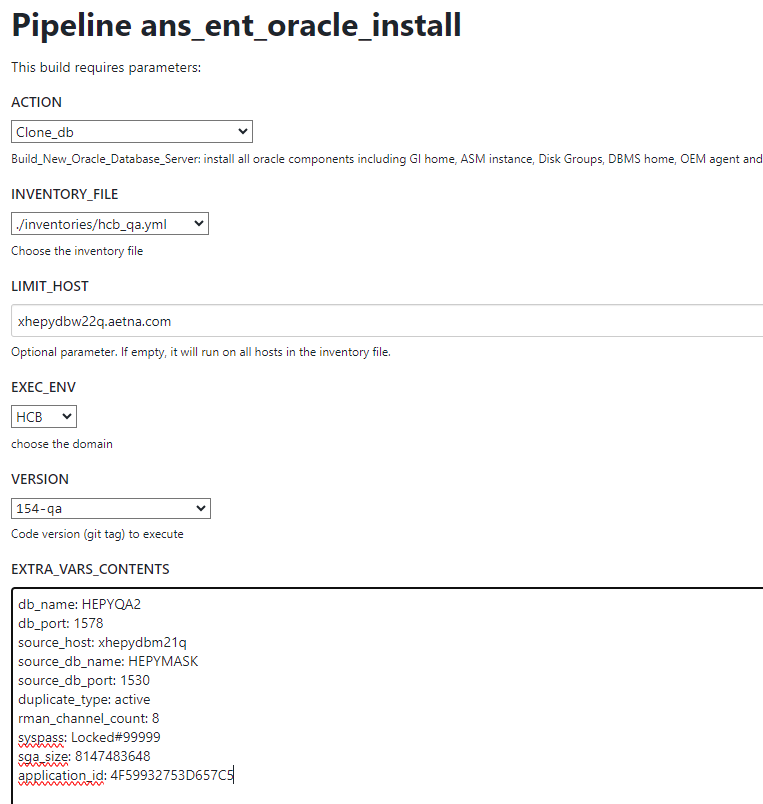
**2.Remove instance files from $DBS (rm \*HEPYQA2\*)**

**3.Remove the database entry from the /etc/oratab**

**4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYQA2\_XHEPYDBW22Q**

**5.Stop and remove listener**

**I end up running today’s clone with the old clone\_db script because I had very short window to deliver that database, but if would have to use Jenkins again below an example.**



db\_name: HEPYQA2

db\_port: 1578

source\_host: xhepydbm21q

source\_db\_name: HEPYMASK

source\_db\_port: 1530

duplicate\_type: active

rman\_channel\_count: 8

syspass: Zyz#99999

sga\_size: 8147483648

application\_id: 4F59932753D657C5

**If you do clone with old script do not forget to update CMDB to make database operational.**

## Old way cloning which was done this time

nohup ./clone\_db\_eb.sh HEPYQA2 1578 HEPYMASK 1530 xhepydbm21q <<< $'6\nZyz#99999\n' &

## To monitor clone log Open SSH session

cd $LOGS

tail -f xxx

## To monitor rman portion (duplicate) of clone Open SSH session

cd /orahome/u01/app/oracle/admin/HEPYQA2/rman

tail -f xxxx

• **Run post clone script after the clone refresh completed successfully.**

Logon to the database server hosting database HEPYQA (xhepydbw21q)

. oraenv

HEPYQA2

cd $HOME/tls/refresh/HEPYQA2

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYQA2

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Subdirectory name where clone pre run scripts were created (e.g. MON\_DD\_YYYY)

May\_22\_2024

Note: This directory resides under the directory where this script resides.

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

The script writes to the sub directory created by the pre clone script in the format of Mon\_DD\_YYYY, in this directory will be the scripts created by the pre clone scripts and a log detailing the run activity of the post clone steps that were run.

Below part of post script…

Resume all OEM jobs that were disabled prior clone.

Uncomment crontab jobs

Kick off stats job on newly cloned HEPYQA2 database.

\*\* **Step to extract custom DW indexes for bootstrap** (do it prior to bootstrap start) **\*\***

Log in to HEDWDEV box

cd /home/oracle/tls/idx

1) vi dw\_databases.txt

HEDWQA2

2) get\_custom\_indexes\_ddl.sh

4)

mv dw\_custom\_indexes\_ddl\_20240521.out dw\_custom\_indexes\_ddl\_20240521.sql

vi dw\_custom\_indexes\_ddl\_20240521.sql

set trimspool on line 200 echo on feed on

spool create\_dw\_qa2\_custom\_indexes.out

alter session force parallel ddl parallel 4;

…

spool off

5) Copy file to HEDWQA2 box

scp /home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_20230806.sql xhedwdbw22q:/home/oracle/tls/idx/dw\_custom\_indexes\_ddl\_Aug2023.sql

Login to Primary HEDWQA2 box

Suspend OEM backup jobs first

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

**\*\*\* Drop 2 synonyms from HEDWQA2** (do it prior to bootstrap start) **\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

DROP SYNONYM "PUBLIC".CLAIM\_FACT

/

DROP SYNONYM PROD\_DW.CLAIM\_FACT

/

**\*\* Extract DDL for CACHE tables from HEDWQA2** (do it prior to bootstrap start) **\*\***

Login to HEDWQA2 box

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@extract\_cache\_tables\_ddl.sql

\*\* **Once bootstrap in progress and once bootstrap dropped all PROD\_DW tables add custom indexes back** (check with HE Admin when such step can be completed) **\*\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

cd /home/oracle/tls/idx/

@create\_dw\_qa\_custom\_indexes\_May2024.sql

**Check to make sure no parallel indexes out there. If yes change them back to NOPARALLEL**

select owner, index\_name, degree from dba\_indexes where owner IN ('PROD\_DW','AE\_CUSTOM') and degree > 1

**\*\*Once Bootstrap completed move database back to archivelog mode and run Level0 + archivelog backups + Unlock Users\*\***

Login to HEDWQA2 box

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;

EXECUTE aedba.UNLOCKUSER;

**\*\*\* Create cache tables in HEDWQA2 from ddl extract taken prior to bootstrap \*\*\***

**\*\*\* Add synonyms that were dropped before bootstrap or wiped out during \*\***

!! Ignore any errors.

cd /home/oracle/eb/extract\_ddl

sqlplus / as sysdba

@create\_cache\_tables.sql

@create\_cache\_synonyms.sql

**\*\*\* Recompile \*\*\***

sqlplus / as sysdba

@?/rdbms/admin/utlrp.sql

select count(\*)

from dba\_objects

where status = 'INVALID';

**Kick off OEM HEDWQA2 Level 0 backup and resume other backup jobs that were suspended earlier.**

\*\*\*\*06/07/2024 – HEPYMASK from HEPYPRD DDboost Tape backup same Data Center \*\*\*\*

!!!Attempted to kick off clone via Jenkins but got error in TASK [clone\_db : Register storage unit]. Had to go back to script cloning after making change in setup\_ddboost\_for\_clone.rman to point SBT\_LIBRARY to different location. Had to use trick with dummy instance to run it… Sent email to Rich to follow up with Jenkins code..

Suspend all applicable OEM and Cron jobs prior to the clone activity (Comment out HEPYMASK entries in crontab and suspend Backup jobs in OEM)

!! Move HEPYMASK to archivelog mode first if needed

cd /home/oracle/tls/refresh/HEPYMASK

**~~-- Make sure following scripts in place if not copy from another server and rename accordingly~~**

**~~Find from Greg Stewart what is BACKUP\_HOST and STORAGE\_UNIT prior.~~**

~~clone\_db\_fr\_tape.sh~~

~~duplicate\_HEPYPRD\_fr\_tape.rman~~

~~setup\_ddboost\_for\_clone.rman~~

**~~- Make appropriate changes in these scripts prior to clone~~**

**~~!!! Make sure you have correct YEAR in line below~~**

**~~until time "TO\_DATE('XX/X/YYYY 08:01:00', 'MM/DD/YYYY HH24:MI:SS')"~~**

~~### list incarnation of database; ### on target side to get CURRENT DB ID and incarnation~~

cd /home/oracle/tls/refresh/HEPYMASK

~~Run following script prior to db drop and clone~~

~~rmac~~

~~@setup\_ddboost\_for\_clone.rman~~

!! If HEPYMASK exist on xhepydbm21q drop it first.

• Drop Auxiliary DataBase (if exist already)

On your computer, open Chrome.

At the top right, click More New Incognito Window.

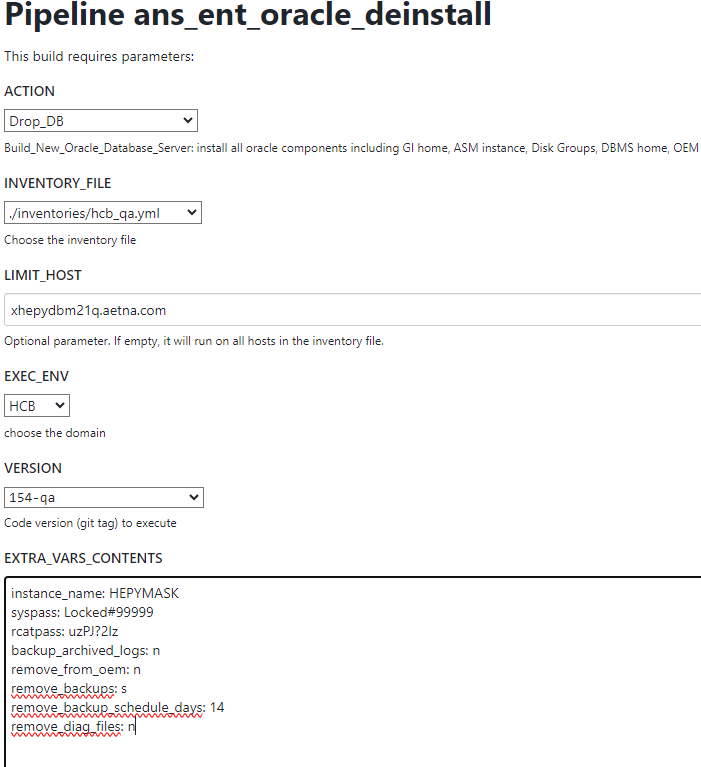
A new window appears. In the top corner, check for the **Incognito** icon .

Paste following URL: <https://ci-autoeng.cvshealth.com/jenkins/>

Login with your cvshealth.com email

Select **DBEngineering** 🡪 **Oracle** 🡪 **ans\_ent\_oracle\_deinstall**

Click **Build with Parameters** and populate as shown below



**instance\_name: HEPYMASK**

**syspass: Zyz#99999**

**rcatpass: uzPJ?2lz**

**backup\_archived\_logs: n**

**remove\_from\_oem: n**

**remove\_backups: s**

**remove\_backup\_schedule\_days: 14**

**remove\_diag\_files: n**

~~Logon to the database server hosting database HEPYMASK (xhepydbm21q)~~

~~. oraenv~~

~~HEPYMASK~~

~~cd $SCRIPTS~~

~~!! Say No to all. You’ll want to respond schedule to the rman/tsm cleanup prompt.~~

~~drop\_database.sh HEPYMASK~~

~~None Prod sys: Zyz#99999~~

!! Check if any old arhivelogs dirs. need to be manually removed to free up FLASH space

asmcmd

cd FLASH\_01/

cd ARCHIVELOG/

ls

--If you see old dir dated when clone was taken. Remove it

rm -r 2024\_03\_22/

• Clone Target Database to Auxiliary DataBase

On your computer, open Chrome.

At the top right, click More New Incognito Window.

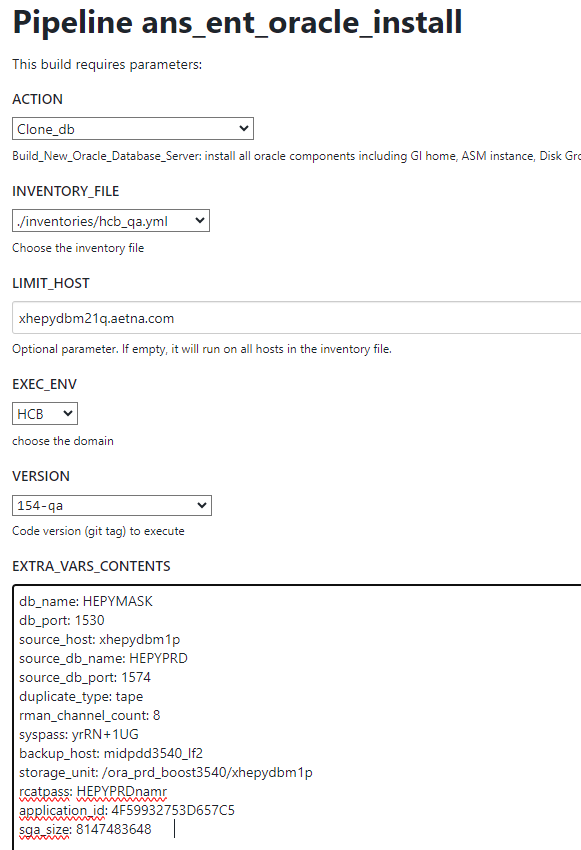
A new window appears. In the top corner, check for the Incognito icon .

Paste following URL: <https://ci-autoeng.cvshealth.com/jenkins/>

Login with your cvshealth.com email

Select **DBEngineering** 🡪 **Oracle** 🡪 **ans\_ent\_oracleinstall**

Click **Build with Parameters** and populate as shown below



db\_name: HEPYMASK

db\_port: 1530

source\_host: xhepydbm1p

source\_db\_name: HEPYPRD

source\_db\_port: 1574

duplicate\_type: tape

rman\_channel\_count: 8

syspass: yrRN+1UG

backup\_host: midpdd3540\_lf2

storage\_unit: /ora\_prd\_boost3540/xhepydbm1p

rcatpass: HEPYPRDnamr

application\_id: 4F59932753D657C5

sga\_size: 8147483648

~~Clone HEPYPRD to HEPYMASK~~

~~!! get HEPYPRD sys P from BT and test login (from DBArtisan for example)~~

~~Logon to the database server hosting database HEPYMASK (xhepydbm21q)~~

~~. oraenv~~

~~+ASM~~

~~cd $SCRIPTS~~

~~cd /home/oracle/tls/refresh/HEPYMASK~~

~~nohup ./clone\_db\_fr\_tape.sh HEPYMASK 1530 HEPYPRD 1574 xhepydbm1p 6144 <<< $'8\nyrRN+1UG\n' &~~

## To monitor Open second SSH

cd $SCRIPTS

cd ..

cd logs

tail -f ...

## to monitor rman portion

. oraenv HEPYMASK

cd $SCRIPTS

cd ..

cd rman

tail -f xxxx

or

cd /orahome/u01/app/oracle/admin/HEPYMASK/rman

tail -f xxxx

**To monitor restore**

. oraenv

HEPYMASK

select TOTALWORK, sofar, ROUND((sofar/totalwork) \* 100,2) pct\_done,

sysdate + TIME\_REMAINING/3600/24 end\_time

from v$session\_longops

where totalwork > sofar

and opname like 'RMAN%';

or

. oraenv

+ASM

asmcmd

cd DATA\_01/

du

Steps in case clone failed and needs to be restarted

ps -ef |grep pmon

ps -ef | grep tns

1.Shutdown the instance (shutdown abort) or kill pmon process

2.Remove instance files from $DBS (rm \*HEPYMASK\*)

3.Remove the database entry from the oratab

4.Remove the database directories from asm. In asmcmd rm -r \*/HEPYMASK\_XHEPYDBM21Q

srvctl stop listener -l HEPYMASK

srvctl remove listener -l HEPYMASK

How to restore dropped database in case clone did not work

--Add HEPYMASK entry into oratab and remove \_del if necessary

--modify restoresavepoint.rman add restore point taken in pre step

cd /home/oracle/tls/rman

nohup run\_rman\_command\_file.ksh HEPYMASK restoresavepoint.rman &

• Run script after the clone refresh. (Please note this is custom clone\_post\_steps script for HEPYMASK).

Logon to the database server hosting database HEPYMASK (xhepydbm21q)

. oraenv

HEPYMASK

cd /home/oracle/tls/refresh/HEPYMASK

Unless you know your Source A/N account P, change P so you can login.

AU XXX

I BY "xxx"

/

cd /home/oracle/tls/refresh/HEPYMASK

./clone\_post\_steps.sh

The script will prompt for the following information:

Database to be refreshed (auxiliary database)

HEPYMASK

Enter Schema Owner (e.g. PROD)

PROD

DBA ID (dba id to be used for connecting to the aux database)

A236120

DBA P (P for the dba id being used for connecting to the aux and target databases)

enter p here – xxx

Starting Number (Step number to begin with in the script as the script is restartable. Specify 1 to run

all steps in the script. Specify a number other than 1 if the script is being run again due to an error

and want to start at the failed step number).

1

## Enable heartbeat if not already enabled

**\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYMASK AEDBA > /dev/null 2>&1**

~~!! Just in case Prod still under old Oracle Home. Apply latest RU~~

~~!! Use Jenkins PATCH\_DB – to apply 19.22.0 RU~~

Resume all OEM jobs that were disabled prior clone.

Check if backup jobs not there in OEM add them. Schedule archivelog job every hour

Run Level 0 and Archivelog jobs

Once backups completed move database to norachivelog mode. Disable OEM Jobs

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database flashback off;

ALTER DATABASE NO FORCE LOGGING;

alter database noarchivelog;

alter database open;

archive log list;

**Drop indexes (on demand)**

cd /home/oracle/tls/refresh/HEPYMASK

**@drop\_indexes\_POSTAL\_ADDRESS.sql**

**@drop\_indexes\_CAPITATED\_PAYMENT\_LINE.sql**

**@drop\_indexes\_CONSOLIDATED\_CLAIM.sql**

**@drop\_indexes\_UB92.sql**

**@drop\_indexes\_HCFA1500.sql**

**@drop\_indexes\_MEMBERSHIP.sql**

@drop\_indexes\_PERSON\_NAME.sql

@drop\_indexes\_INSURANCE\_INFORMATION.sql

@drop\_indexes\_LICENSE\_NUMBER.sql

@drop\_indexes\_ATTRIBUTION\_LINE.sql

**@drop\_indexes\_PAYEE\_BANK\_ACCOUNTS.sql**

**Add indexes back after masking completed for particular table (on demand)**

cd /home/oracle/tls/refresh/HEPYMASK

**nohup add\_indexes\_POSTAL\_ADDRESS.sh HEPYMASK > add\_indexes\_POSTAL\_ADDRESS.stdout 2>&1 &**

**nohup add\_indexes\_CAPITATED\_PAYMENT\_LINE.sh HEPYMASK > add\_indexes\_CAPITATED\_PAYMENT\_LINE.stdout 2>&1 &**

**nohup add\_indexes\_CONSOLIDATED\_CLAIM.sh HEPYMASK > add\_indexes\_CONSOLIDATED\_CLAIM.stdout 2>&1 &**

**nohup add\_indexes\_UB92.sh HEPYMASK > add\_indexes\_UB92.stdout 2>&1 &**

nohup add\_indexes\_ATTRIBUTION\_LINE.sh HEPYMASK > add\_indexes\_ATTRIBUTION\_LINE.stdout 2>&1 &

**nohup add\_indexes\_HCFA1500.sh HEPYMASK > add\_indexes\_HCFA1500.stdout 2>&1 &**

**nohup add\_indexes\_MEMBERSHIP.sh HEPYMASK > add\_indexes\_MEMBERSHIP.stdout 2>&1 &**

nohup add\_indexes\_PERSON\_NAME.sh HEPYMASK > add\_indexes\_PERSON\_NAME.stdout 2>&1 &

nohup add\_indexes\_INSURANCE\_INFORMATION.sh HEPYMASK > add\_indexes\_INSURANCE\_INFORMATION.stdout 2>&1 &

nohup add\_indexes\_LICENSE\_NUMBER.sh HEPYMASK > add\_indexes\_LICENSE\_NUMBER.stdout 2>&1 &

**nohup add\_indexes\_PAYEE\_BANK\_ACCOUNTS.sh HEPYMASK > add\_indexes\_PAYEE\_BANK\_ACCOUNTS.stdout 2>&1 &**

Once Masking completed move database back to archivelog mode and run Level0 + archivelog backups

sqlplus / as sysdba

shutdown immediate;

startup mount;

alter database archivelog;

alter database open;

archive log list;