**PY and DW QA1 pre steps**

-- Comment out PY and DW crontab stats job that may start during upgrade.

-- Check make sure last PY and DW Archivelog jobs completed.

Run manually if needed

Run manually if needed

-- Check make sure FLASH space freed up on both PY and DW servers.

. oraenv

+ASM

sqlplus / as sysdba

@showasm

**PY steps**

Primary : xhepydbw21q\_HEPYQA\_Primary

StandBy : xhepydbm21q\_HEPYQA\_StandBy

Run OEM **Standby** ARCHIVE\_LOG\_PURGE. If needed.

--Comment heartbeat in cron on **Primary** server

#\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYQA AEDBA > /dev/null 2>&1

--Manually update RMAN HeartBeat Table in **Primary** Database

/home/oracle/tls/rman/heartbeat.ksh HEPYQA AEDBA

DBNAME Start Time

--------------------------- -------------------------------------------

HEPYQA 12-17-2021 09:20:07 AM

Current TimeStamp

------------------------------------------------------------------

12-17-2021 09:20:07 AM

End Time

------------------------------------------------------------------

12-17-2021 09:20:07 AM

--Get Flashback Database status in **Primary** database

sql => select flashback\_on from v$database;

FLASHBACK\_ON

------------------

NO

--Get Flashback Database status in **Standby** database

sql => select flashback\_on from v$database;

FLASHBACK\_ON

------------------

NO

--Note: FRA was already defined in HEPYQA (Otherwise would need to create)

From **Primary** database

alter system set db\_recovery\_file\_dest\_size = 300G scope=both;

SQL> show parameter db\_recovery\_file\_dest\_size

From **Standby** database

alter system set db\_recovery\_file\_dest\_size = 600G scope=both;

SQL> show parameter db\_recovery\_file\_dest

**--Create the Guaranteed Restore Point and configure the standby database for flashback\_database**

**--To be run on the Primary database server - Script will also configure the standby database**

cd $SCRIPTS

create\_guaranteed\_restore\_point.sh HEPYQA b4\_app\_upgrade

NAME INCARNATION SCN TIME GUARANTEE

------------------------------------ ------------ ---------------- ------------------------------- ---------

B4\_APP\_UPGRADE 2 13599697626719 17-DEC-21 09.31.18.000000000 AM YES

Uncomment the heartbeat script in cron on primary server

\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEPYQA AEDBA > /dev/null 2>&1

Confirm flashback\_database configured in standby database

Run below select in standby database

select flashback\_on from v$database;

**DW upgrade steps**

Primary: xhedwdbw21q\_HEDWQA\_Primary

Standby: xhedwdbm21q\_HEDWQA\_StandBy

Run OEM **standby** job HEDWQA\_STDBY2\_ARCHIVE\_LOG\_PURGE for **standby** database. If needed.

--Run **LockUser** procedure in HEDWQA. (Use DBArtisan or sqlplus)

--Manually kill N and A ID connections

--Comment heartbeat in cron on **Primary** server

#\* /home/oracle/tls/rman/heartbeat.ksh HEDWQA AEDBA

--Manually update RMAN HeartBeat Table in **Primary** Database

/home/oracle/tls/rman/heartbeat.ksh HEDWQA AEDBA

HEDWQA> /home/oracle/tls/rman/heartbeat.ksh HEDWQA AEDBA

DBNAME Start Time

--------------------------- --------------------------------------------------

HEDWQA 06-10-2022 10:07:34 AM

Previous TimeStamp

------------------------------------------------------------------

06-10-2022 10:05:01 AM

Current TimeStamp

------------------------------------------------------------------

06-10-2022 10:07:34 AM

End Time

------------------------------------------------------------------

06-10-2022 10:07:34 AM

-- Get Flashback Database status in **Primary** database

sql => select flashback\_on from v$database;

FLASHBACK\_ON

------------------

NO

--Get Flashback Database status in **Standby** database

sql => select flashback\_on from v$database;

FLASHBACK\_ON

------------------

NO

--Note: FRA was already defined in HEDWQA (Otherwise would need to create)

From **Primary** database

alter system set db\_recovery\_file\_dest\_size = 65G scope=both;

SQL> show parameter db\_recovery\_file\_dest\_size

From **Standby** database

alter system set db\_recovery\_file\_dest\_size = 65G scope=both;

SQL> show parameter db\_recovery\_file\_dest

**--Create the Guaranteed Restore Point and configure the standby database for flashback\_database**

**--To be run on the Primary database server - Script will also configure the standby database**

cd $SCRIPTS

create\_guaranteed\_restore\_point.sh HEDWQA b4\_app\_upgrade

----------------------------------------

NAME INCARNATION SCN TIME GUARANTEE

------------------------------------ ------------ ---------------- ------------------------------- ---------

B4\_APP\_UPGRADE 2 13607424823953 17-DEC-21 09.38.02.000000000 AM YES

Uncomment the heartbeat script in cron on primary server

\*/5 \* \* \* \* /home/oracle/tls/rman/heartbeat.ksh HEDWQA AEDBA > /dev/null 2>&1

Confirm flashback\_database configured in standby database

Run below select in Standby database

select flashback\_on from v$database;

**-----------------------------> Post Upgrade steps**

**PY steps**

* Check how much logs being generated during upgrade. If FLASH space does not have much free drop restore points first.

. oraenv

+ASM

--- To monitor FLASH space in general

sqlplus / as sysdba

@showasm

exit

--To Monitor flashback logs size that being generated during upgrade

asmcmd

cd +FLASH\_01/HEPYQA\_XHEPYDBW21Q/FLASHBACK/

du

Used\_MB Mirror\_used\_MB

483456 483456

. oraenv

HEPYQA

SELECT

log# as "Log No",

thread# as "Thread No",

sequence# as "Seq No",

name,

bytes/1024/1024/1024 as "Size(GB)",

first\_change# as "First Chg No",

first\_time

FROM

v$flashback\_database\_logfile

ORDER BY first\_time;

**471GB**

**Drop restore points**

**Drop Guaranteed Restore Point and turn off flashback\_database in the standby database**

**To be run on the primary database server - Script will also configure the standby database**

**Primary**:

cd $SCRIPTS

drop\_guaranteed\_restore\_point.sh HEPYQA b4\_app\_upgrade

Confirm restore point dropped

sqlplus / as sysdba

select name from v$restore\_point where guarantee\_flashback\_database='YES';

Confirm flashback\_database not configured in standby database

Run below select in standby database

select flashback\_on from v$database;

Resize the FRA in the primary database and the standby database

Primary DataBase:

sqlplus / as sysdba

alter system set db\_recovery\_file\_dest\_size = 7G scope=both;

show parameter db\_recovery\_file\_dest\_size;

Standby DataBase:

sqlplus / as sysdba

alter system set db\_recovery\_file\_dest\_size = 7G scope=both;

show parameter db\_recovery\_file\_dest;

Resume standby log purge job in OEM - **HEPYQA\_STDBY2\_ARCHIVE\_LOG\_PURGE (if not already resumed by drop grp script)**

**Uncomment stats jobs ()**

**DW steps**

* Check how much logs being generated during upgrade. If FLASH space does not have much free drop restore points first.

. oraenv

+ASM

--- To monitor FLASH space in general

sqlplus / as sysdba

@showasm

exit

--To Monitor flashback logs size that being generated during upgrade

asmcmd

cd +FLASH\_01/HEDWQA\_XHEDWDBW21Q/FLASHBACK

du

Used\_MB Mirror\_used\_MB

24592 24592

or

. oraenv

HEDWQA

SELECT

log# as "Log No",

thread# as "Thread No",

sequence# as "Seq No",

name,

bytes/1024/1024/1024 as "Size(GB)",

first\_change# as "First Chg No",

first\_time

FROM

v$flashback\_database\_logfile

ORDER BY first\_time;

Or

SELECT

SUM(bytes/1024/1024/1024) as "Size(GB)"

FROM

v$flashback\_database\_logfile

**1 GB**

**Drop restore points from Primary side**

cd $SCRIPTS

drop\_guaranteed\_restore\_point.sh HEDWQA b4\_app\_upgrade

Confirm restore point dropped

sqlplus / as sysdba

select name from v$restore\_point where guarantee\_flashback\_database='YES';

Confirm flashback\_database not configured in standby database

Run below select in standby database

select flashback\_on from v$database;

Resize the FRA in the primary database and the standby database

Primary DataBase:

sqlplus / as sysdba

alter system set db\_recovery\_file\_dest\_size = 7G scope=both;

show parameter db\_recovery\_file\_dest\_size;

Standby DataBase:

sqlplus / as sysdba

alter system set db\_recovery\_file\_dest\_size = 7G scope=both;

show parameter db\_recovery\_file\_dest\_size;

Resume standby log purge job in OEM - **HEDWQA\_STDBY2\_ARCHIVE\_LOG\_PURGE (if not already resumed by drop grp script)**

-- Run **UNLOCKUSER** procedure in HEDWQA (Use DBArtisan or sqlplus)