Apply PSU Procedures

The below procedures will be used to apply the PSU to the PAYOR Dev and Stress databases

cd /orahome/u01/app/oracle/local/logs/

ls -altr relink\*

view /orahome/u01/app/oracle/local/logs/relink\_and\_go\_YYYYMMDD\_HH24:MI:SS.out

Looking for following message at the bottom of file: CRS-4621: Oracle High Availability Services autostart is disabled.

Should also look at the relink output file:

cd $ORACLE\_HOME/install/

view $ORACLE\_HOME/install/relinkActionsYYYY-MM-DD\_HH-MI-SS-PM.log

If Oracle not relinked, reach out to Rich Ryan as we were not provided any instructions to allow us to investigate on our own.

• Logon to the database server hosting database HEPYDEV

. oraenv   
 HEPYDEV

Or

. oraenv   
 HEDWDEV

. oraenv   
 HEPYQA

Or

. oraenv   
 HEDWQA

cd $HOME/tls/patches

1) get\_server\_uptime.sh -- Confirm server rebooted recently

2) get\_relink\_log\_date.sh -- Confirm relink run recently

3) check\_for\_relink\_errors.sh -- Check for relink errors

4) check\_databases.sh -- Confirm database and listener up

5) install\_psu\_patch.sh 12.1.0.2.200414 -- Apply PSU

6) check\_databases.sh -- Confirm database and listener up

7) verify\_patches\_applied.sh -- Verify Patches Were Applied

vi install\_psu\_patch.sh

#exit 0

nohup install\_psu\_patch.sh 19.12.1 &

or

install\_psu\_patch.sh 19.12.1

~~nohup install\_psu\_patch\_withHEPYMASK.sh 12.1.0.2.200414 &~~

The script will launch the patch\_db.sh script for the dev and stress databases.

The script creates a log in the logs sub directory underneath the directory where the script resides.  
 The script will pull all the logs for all databases patched and append them to a master log for easy   
 review.

To monitor

cd $HOME/tls/patches

tail –f nohup.out  
 To review the patching results

cd $HOME/tls/patches/logs

ls –ltr

view apply\_psu\_12.1.0.2.1901151\_to\_dev\_databases\_DATETIME.log

cd $HOME/tls/patches

vi install\_psu\_patch.sh

exit 0

Note: There is an equivalent script for the QA and UAT databases residing on the server that hosts the   
 QA1 database. Same set of scripts reside on the equivalent DW database servers.  
 For prod databases, execute the patch\_db.sh script residing in the $SCRIPTS directory on the   
 applicable prod primary database server.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*4/22/2018 Prod Jan 2018 PSU example with post log applied checks.

cd $SCRIPTS

./patch\_db.sh 12.1.0.2.180116 HEPYPRD

After PSU is completed do log switch on Primary so we can see log being applied on StandBy

sqlplus / as sysdba

alter system switch logfile;

exit

cd $SCRIPTS

@check\_dg\_parms.sql

PROTECTION\_MODE

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

FORCE\_LOGGING

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

OPEN\_MODE DATABASE\_ROLE

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

SWITCHOVER\_STATUS

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

MAXIMUM PERFORMANCE

YES

READ WRITE PRIMARY

TO STANDBY

DEST\_ID DEST\_NAME STATUS ERROR

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

1 LOG\_ARCHIVE\_DEST\_1 VALID

2 LOG\_ARCHIVE\_DEST\_2 VALID

3 LOG\_ARCHIVE\_DEST\_3 INACTIVE

SELECT DB\_NAME, HOSTNAME, LOG\_ARCHIVED, LOG\_APPLIED,APPLIED\_TIME,

LOG\_ARCHIVED-LOG\_APPLIED LOG\_GAP

FROM

(

SELECT NAME DB\_NAME

FROM V$DATABASE

),

(

SELECT UPPER(SUBSTR(HOST\_NAME,1,(DECODE(INSTR(HOST\_NAME,'.'),0,LENGTH(HOST\_NAME),

(INSTR(HOST\_NAME,'.')-1))))) HOSTNAME

FROM V$INSTANCE

),

(

SELECT MAX(SEQUENCE#) LOG\_ARCHIVED

FROM V$ARCHIVED\_LOG WHERE DEST\_ID=1 AND ARCHIVED='YES'

),

(

SELECT MAX(SEQUENCE#) LOG\_APPLIED

FROM V$ARCHIVED\_LOG WHERE DEST\_ID=3 AND APPLIED='YES'

),

(

SELECT TO\_CHAR(MAX(COMPLETION\_TIME),'DD-MON/HH24:MI') APPLIED\_TIME

FROM V$ARCHIVED\_LOG WHERE DEST\_ID=3 AND APPLIED='YES'

);

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*10/28/2018 Prod JUL 2018 PSU example with post log applied checks.

\*\*\*\*\*\*\*\* Includes parameters changes with bounce \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

cd $HOME/tls/patches

./get\_server\_uptime.sh

cd $SCRIPTS

./patch\_db.sh 12.1.0.2.180717 HEPYPRD

After PSU is completed do log switch on Primary so we can see log being applied on StandBy

sqlplus / as sysdba

alter system switch logfile;

exit

cd $SCRIPTS

@check\_dg\_parms.sql

@check\_dg\_logs.sql

Login to Primary

sqlplus/ as sysdba

alter system set sga\_max\_size=64G scope=spfile;

alter system set sga\_target=64G scope=spfile;

alter system set pga\_aggregate\_target=34G scope=spfile;

alter system reset pga\_aggregate\_limit scope=spfile;

alter system set pga\_aggregate\_limit=51G scope=spfile;

srvctl stop database -d HEPYPRD\_xhepydbm21p

srvctl start database -d HEPYPRD\_xhepydbm21p

show parameter sga\_max\_size;

show parameter sga\_target;

show parameter pga\_aggregate\_target;

show parameter pga\_aggregate\_limit;

Login to Standby

sqlplus/ as sysdba

alter system set sga\_max\_size=64G scope=spfile;

alter system set sga\_target=64G scope=spfile;

alter system set pga\_aggregate\_target=34G scope=spfile;

alter system reset pga\_aggregate\_limit scope=spfile;

alter system set pga\_aggregate\_limit=51G scope=spfile;

srvctl stop database -d HEPYPRD\_xhepydbw21p

srvctl start database -d HEPYPRD\_xhepydbw21p

show parameter sga\_max\_size;

show parameter sga\_target;

show parameter pga\_aggregate\_target;

show parameter pga\_aggregate\_limit;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*01/27/2019 Prod OCT 2018 PSU example with post log applied checks.

\*\*\*\*\*\*\*\* Includes bug fix \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

cd /orahome/u01/app/oracle/local/logs/

ls -altr relink\*

view /orahome/u01/app/oracle/local/logs/relink\_and\_go\_YYYYMMDD\_HH24:MI:SS.out

Looking for following message at the bottom of file: CRS-4621: Oracle High Availability Services autostart is disabled.

Should also look at the relink output file:

cd $ORACLE\_HOME/install/

view $ORACLE\_HOME/install/relinkActionsYYYY-MM-DD\_HH-MI-SS-PM.log

If Oracle not relinked, reach out to Rich Ryan as we were not provided any instructions to allow us to investigate on our own.

cd $HOME/tls/patches

./get\_server\_uptime.sh

cd $SCRIPTS

./patch\_db.sh 12.1.0.2.181016 HEPYPRD

After PSU is completed do log switch on Primary so we can see log being applied on StandBy

sqlplus / as sysdba

alter system switch logfile;

exit

cd $SCRIPTS

@check\_dg\_parms.sql

@check\_dg\_logs.sql

sqlplus / as sysdba

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

CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u02/datapump'

/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*04/28/2019 Prod JAN 2019 PSU example with post log applied checks.

cd /orahome/u01/app/oracle/local/logs/

ls -altr relink\*

view /orahome/u01/app/oracle/local/logs/relink\_and\_go\_YYYYMMDD\_HH24:MI:SS.out

Looking for following message at the bottom of file: CRS-4621: Oracle High Availability Services autostart is disabled.

Should also look at the relink output file:

cd $ORACLE\_HOME/install/

view $ORACLE\_HOME/install/relinkActionsYYYY-MM-DD\_HH-MI-SS-PM.log

If Oracle not relinked, reach out to Rich Ryan as we were not provided any instructions to allow us to investigate on our own.

cd $HOME/tls/patches

./get\_server\_uptime.sh

cd $SCRIPTS

./patch\_db.sh 12.1.0.2.1901151 HEPYPRD

After PSU is completed do log switch on Primary so we can see log being applied on StandBy

sqlplus / as sysdba

alter system switch logfile;

exit

cd $SCRIPTS

@check\_dg\_parms.sql

@check\_dg\_logs.sql

sqlplus / as sysdba

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

CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u02/datapump'

/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*10/20/2019 Prod PY JUL 2019 PSU example with post log applied checks\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*02/23/2020 Prod PY JAN 2020 PSU example with post log applied checks\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*08/23/2020 Prod PY APR 2020 PSU example with post log applied checks\*\*\*\*

Login to Primary: xhepydbm1p

sqlplus / as sysdba

alter system set processes=2800 scope=spfile;

srvctl stop database -d HEPYPRD\_xhepydbm1p

srvctl start database -d HEPYPRD\_xhepydbm1p

Login to Standby: xhepydbw1p

sqlplus / as sysdba

alter system set processes=2800 scope=spfile;

srvctl stop database -d HEPYPRD\_xhepydbw1p

srvctl start database -d HEPYPRD\_xhepydbw1p

cd /orahome/u01/app/oracle/local/logs/

ls -altr relink\*

view /orahome/u01/app/oracle/local/logs/relink\_and\_go\_YYYYMMDD\_HH24:MI:SS.out

Looking for following message at the bottom of file: CRS-4621: Oracle High Availability Services autostart is disabled.

Should also look at the relink output file:

cd $ORACLE\_HOME/install/

view $ORACLE\_HOME/install/relinkActionsYYYY-MM-DD\_HH-MI-SS-PM.log

If Oracle not relinked, reach out to Rich Ryan as we were not provided any instructions to allow us to investigate on our own.

cd $HOME/tls/patches

./get\_server\_uptime.sh

cd $SCRIPTS

~~./patch\_db.sh 12.1.0.2.190716 HEPYPRD~~

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

~~./patch\_db.sh 12.1.0.2.200414 HEPYPRD~~

~~./patch\_db.sh 19.11.0 HEPYPRD~~

./patch\_db.sh 19.12.1 HEPYPRD

./patch\_db.sh 19.12.1 HECVPRD

Or

**~~nohup patch\_db.sh 19.11.0 HEPYPRD &~~**

**nohup patch\_db.sh 19.12.0 HEPYPRD &**

After PSU is completed do log switch on Primary so we can see log being applied on StandBy

sqlplus / as sysdba

alter system switch logfile;

exit

cd $SCRIPTS

@check\_dg\_parms.sql

@check\_dg\_logs.sql

sqlplus / as sysdba

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

CREATE OR REPLACE DIRECTORY DATA\_PUMP\_DIR AS '/oraexport/u02/datapump'

/