Apr 2019 CPU Patch Steps for Oracle 12.2.0.1.0

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## Initial Setup

1. Download the patch **Patch 29314339 - Database Apr 2019 Release Update 12.2.0.1.190416** from Oracle Support to /stage/Download/patches/CPUAPRIL2019/

* I have already downloaded and its available in the above folder.

1. You must use the OPatch utility version 12.2.0.1.14 or later to apply this patch.So Download the latest OPatch as well

Patchname: p29314339\_122010\_Linux-x86-64.zip

* I have already downloaded and its available in folder /stage/Download/patches/OPatch

## Steps to Install OPatch utility:

Copy p6880880\_121010\_LINUX.zip to $ORACLE\_HOME

Rename existing OPatch directory under $ORACLE\_HOME

% cd $ORACLE\_HOME

% mv OPatch OPatch.old

% unzip p6880880\_121010\_LINUX.zip

% opatch version

% opatch lsinventory

[oradwd1@shnpc1dw1 OPatch]$ ./opatch lsinventory

Oracle Interim Patch Installer version 12.2.0.1.17

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Oracle Home : /w01/app/oracle/product/12.2.0/dbhome\_1

Central Inventory : /w01/app/oraInventory

from : /w01/app/oracle/product/12.2.0/dbhome\_1/oraInst.loc

OPatch version : 12.2.0.1.17

OUI version : 12.2.0.1.4

Log file location : /w01/app/oracle/product/12.2.0/dbhome\_1/cfgtoollogs/opatch/opatch2019-06-24\_13-58-15PM\_1.log

Lsinventory Output file location : /w01/app/oracle/product/12.2.0/dbhome\_1/cfgtoollogs/opatch/lsinv/lsinventory2019-06-24\_13-58-15PM.txt

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

Local Machine Information::

Hostname: shnpc1dw1.aws-sh-npc.copyright.com

ARU platform id: 226

ARU platform description:: Linux x86-64

Installed Top-level Products (1):

Oracle Database 12c 12.2.0.1.0

There are 1 products installed in this Oracle Home.

There are no Interim patches installed in this Oracle Home.

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

OPatch succeeded.

## Interim Patch Conflict Detection and Resolution

Determine whether any currently installed interim patches conflict with the patch being installed, 29314339:

[oradwd1@shnpc1dw1 OPatch]$ cd /stage/Download/patches/CPUAPR2019/

[oradwd1@shnpc1dw1 CPUAPR2019]$ cd 29314339/

[oradwd1@shnpc1dw1 29314339]$ opatch prereq CheckConflictAgainstOHWithDetail -ph ./

Oracle Interim Patch Installer version 12.2.0.1.17

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PREREQ session

Oracle Home : /w01/app/oracle/product/12.2.0/dbhome\_1

Central Inventory : /w01/app/oraInventory

from : /w01/app/oracle/product/12.2.0/dbhome\_1/oraInst.loc

OPatch version : 12.2.0.1.17

OUI version : 12.2.0.1.4

Log file location : /w01/app/oracle/product/12.2.0/dbhome\_1/cfgtoollogs/opatch/opatch2019-06-24\_13-58-52PM\_1.log

Invoking prereq "checkconflictagainstohwithdetail"

Prereq "checkConflictAgainstOHWithDetail" passed.

OPatch succeeded.

## Patch Application in Standalone Environment

**Stop OWB in Datamart[DWP] Environment Alone. Not Applicable for CCC TF.**

Stop the OWB process gracefully before shutting down the DWP database for patch application. Otherwise patch application fails with dbms\_lock error.Also make sure there are no active sessions in the Database.

*oradwd1@shnpc1dw1 bin]$ source dwd1env*

$ sqlplus owbsys/*<owbsys\_password>*

SQL> begin

owbsys.wb\_workspace\_management.set\_workspace ('OWBREPOSITORY102','OWBREPOSITORY102');

owbsys.start\_enable\_owb\_roles;

end;

/

SQL> @$OWB\_HOME/owb/rtp/sql/stop\_service.sql

ps -ef | grep owb

The above command should not show any owb processes running under this home.

**Common Steps for all the Environments**

Gracefully Shutdown the Database and listener using the Stop script.

cd /home/oradwd1/bin

./shutoradwd1

Install Patch as follows

% cd /stage/Download/patches/CPUAPRIL2019/29314339

% opatch apply

…………..

Patch 29314339 successfully applied.

Log file location: /w01/app/oracle/product/12.2.0/dbhome\_1/cfgtoollogs/opatch/opatch2019-06-24\_20-23-02PM\_1.log

OPatch succeeded.

After successful patch application.

Startup the database and listener

cd /home/oradwd1/bin

./startoradwd1

Apply datapatch as below

% cd $ORACLE\_HOME/OPatch

% ./datapatch -verbose

[oradwd1@shnpc1dw1 OPatch]$ ./datapatch -verbose

SQL Patching tool version 12.2.0.1.0 Production on Mon Jun 24 21:42:57 2019

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Log file for this invocation: /w01/app/oracle/cfgtoollogs/sqlpatch/sqlpatch\_14630\_2019\_06\_24\_21\_42\_57/sqlpatch\_invocation.log

Connecting to database...OK

Bootstrapping registry and package to current versions...done

Determining current state...done

Current state of SQL patches:

Bundle series DBRU:

ID 190416 in the binary registry and ID 190416 with errors in the SQL registry

Adding patches to installation queue and performing prereq checks...

Installation queue:

Nothing to roll back

The following patches will be applied:

29314339 (DATABASE APR 2019 RELEASE UPDATE 12.2.0.1.190416)

Installing patches...

Patch installation complete. Total patches installed: 1

Validating logfiles...

Patch 29314339 apply: SUCCESS

logfile: /w01/app/oracle/cfgtoollogs/sqlpatch/29314339/22821655/29314339\_apply\_DWD1\_2019Jun24\_21\_43\_06.log (no errors)

SQL Patching tool complete on Mon Jun 24 21:44:18 2019

Verify patch information in sqlplus.

SQL> select patch\_id, status, description from dba\_registry\_sqlpatch;

Compile invalid objects

cd $ORACLE\_HOME/rdbms/admin

sqlplus /nolog

SQL> CONNECT / AS SYSDBA

SQL> @utlrp.sql

Make sure the owb service is up and running in DWP Environments.

ps -ef | grep owb

oradwd1 29030 1 0 15:23 ? 00:00:00 /bin/sh /w01/app/oracle/product/11.2.0/dbhome\_1/owb/bin/unix/run\_service.sh -automatic 1 /w01/app/oracle/product/11.2.0/dbhome\_1 OWBSYS shnpc1dw1.aws-sh-npc.copyright.com:1541:dwd1.copyright.com

oradwd1 29033 29030 0 15:23 ? 00:00:02 /w01/app/oracle/product/11.2.0/dbhome\_1/jdk/jre/bin/java -Xmx768M -Djava.awt.headless=true -DORACLE\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -DOCM\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -DOCM\_ORACLE\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -DOWB\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -DOWBCC\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -classpath ../admin:../admin/launcher.jar:Personalties.jar:: -DOWB\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -DJDK\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1/jdk -DORA\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -DOEM\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 -DIAS\_HOME=/w01/app/oracle/product/11.2.0/dbhome\_1 Launcher ../admin/owb.classpath oracle.wh.runtime.platform.service.Service -automatic 1 OWBSYS shnpc1dw1.aws-sh-npc.copyright.com:1541:dwd1.copyright.com

If the OWB services are not running start it manually after source dwp environment file

SQL> @$OWB\_HOME/owb/rtp/sql/start\_service.sql

## Patch Application in DataGuard Environment

1. Install new OPatch in both Primary and Standby Servers
2. Copy the CPU Patch Zip file to both Primary and Standby Servers
3. Disable Logshipping in Primary
4. Stop managed recovery in Standby
5. Install CPU Patch in Standby Database
   1. Shutdown standby database , listener

% cd /stage2/Download/patches/CPUAPRIL2019/29314339

% opatch apply

Don’t perform post installation steps in Standby.

1. Stop OWB Service, check for active sessions ,Shutdown Database and listener in Primary using script
2. Install CPU Patch in Primary Database
   1. Shutdown Primary database , listener

% cd /stage2/Download/patches/CPUAPRIL2019/29314339

% opatch apply

1. Startup Database, Listener and enable Logshipping in Primary
2. Startup Standby Database in managed recovery mode and Listener
3. Execute post-installation script in Primary

% cd $ORACLE\_HOME/OPatch

% ./datapatch -verbose

Verify patch information in sqlplus.

SQL> select patch\_id, status, description from dba\_registry\_sqlpatch;

Compile invalid objects

cd $ORACLE\_HOME/rdbms/admin

sqlplus /nolog

SQL> CONNECT / AS SYSDBA

SQL> @utlrp.sql

1. Make Sure the Primary and Standby are in sync