Oracle patching with latest Proactive patch

In this document we will see how to patch the database with the latest PSU patches

Check the following note for the patch numbers for all versions

Primary Note for Database Proactive Patch Program (Doc ID 888.1)

Download the relevant patch for the DB version and OS $\,$ version , in this case 21c-Linux

Patch	Patch Number
21.9.0.0.230117 DB RU	Patch 34839741

Check database version: 21.3.0.0

Current patch list: Run the following command to see list of all patches applied (None applied on this Oracle home currently)

```
Toracle@oracle-21c-vagrant ~]$ cd $ORACLE_HOME/OPatch/
[oracle@oracle-21c-vagrant OPatch]$ ./opatch lspatches
There are no Interim patches installed in this Oracle Home "/opt/oracle/product/21c/dbhome_1".
OPatch succeeded.
[oracle@oracle-21c-vagrant OPatch]$
```

Always download the latest OPatch from support

https://updates.oracle.com/download/6880880.html

cd \$ORACLE_HOME/OPatch ./opatch version

```
[oracle@oracle-21c-vagrant dbhome_1]$
[oracle@oracle-21c-vagrant dbhome_1]$
[oracle@oracle-21c-vagrant dbhome_1]$ cd OPatch
[oracle@oracle-21c-vagrant OPatch]$ ./opatch version
OPatch Version: 12.2.0.1.36

OPatch succeeded.
[oracle@oracle-21c-vagrant OPatch]$ |
```

Unzip the patch zip file and run the precheck

Perform Precheck:

cd 34839741

opatch prereq CheckConflictAgainstOHWithDetail -ph ./

Once the precheck is successful we can apply the patch. Make sure all the database running from the Oracle home being patched are shutdown.

Take a backup of the Oracle home (tar/zip) any format should be ok. This is just to be safe in the event of corruption of home.

./opatch apply

```
Patching component oracle.ctx.atg, 21.0.0.0.0...

Patching component oracle.xdk.parser.java, 21.0.0.0.0...

Patching component oracle.precomp.common, 21.0.0.0.0...

Patching component oracle.precomp.lang, 21.0.0.0.0...

Patching component oracle.jdk, 1.8.0.291.09...

Patching component oracle.jdk, 1.8.0.291.09...

Patch 34839741 successfully applied.

Log file location: /opt/oracle/product/21c/dbhome_1/cfgtoollogs/opatch/opatch2023-02-10_11-49-20AM_1.log

OPatch succeeded.

Foracle@oracle-21c-vagrant 348397411$
```

/home/oracle/patches/34839741 [oracle@oracle-21c-vagrant 34839741]\$ cd \$ORACLE_HOME/OPatch [oracle@oracle-21c-vagrant OPatch]\$./opatch lspatches 34839741;Database Release Update : 21.9.0.0.230117 (34839741) OPatch succeeded.

[oracle@oracle-21c-vagrant OPatch]\$

```
[oracle@oracle-21c-vagrant OPatch]$ ./opatch lspatches
34839741;Database Release Update : 21.9.0.0.230117 (34839741)
OPatch succeeded.
[oracle@oracle-21c-vagrant OPatch]$
```

After the patch we need apply to Apply Datapatch (Datapatch is run to complete the post-install SQL deployment for the patch being installed) This will be applied to cdb, seed pdb and all pdbs.

[oracle@oracle-21c-vagrant OPatch]\$ cd \$ORACLE_HOME/OPatch
[oracle@oracle-21c-vagrant OPatch]\$./datapatch -verbose

```
Conceledance 21.0. April 21.0. April 22.0. April 22.0.
```

Upgrade RMAN catalog to complete the patch apply

rman catalog username/password@alias RMAN> UPGRADE CATALOG; RMAN> UPGRADE CATALOG; RMAN> EXIT;

The new version after patching: 21.9.0.0

```
The select * from v$version
SQL> /
BANNER
BANNER_LEGACY
BANNER_LEGACY

Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Oversion 21.9.0.0.0
```

If we need to rollback the patch for any circumstance,

cd \$ORACLE_HOME/Opatch ./opatch rollback -id 34839741