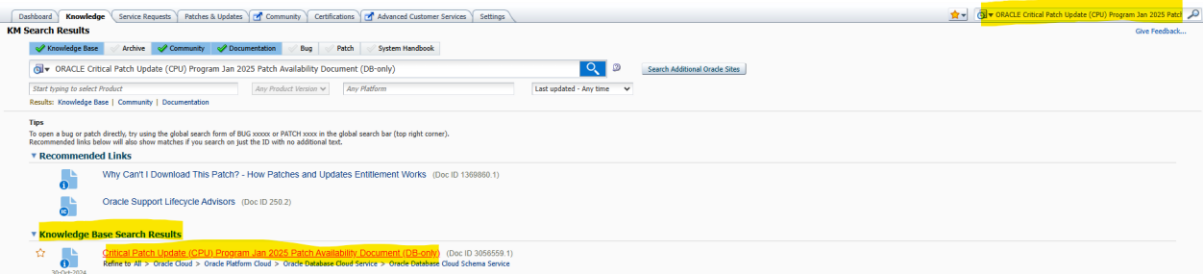


ORACLE Critical Patch Update (CPU) Program Jan 2025 Patch Availability Document (DB-only)

1. Download the patch from oracle support:



2. Go to section patch availability for oracle products and go under oracle databases:

Document Display

Search: ORACLE Critical Patch Update (CPU) Program Jan 2025 Patch Availability Document (DB-only)

The document is for Database Administrators and/or others tasked with Quarterly Security Patching.

DETAILS

### Critical Patch Update Program Jan 2025 Patch Availability Document (DB-only)

My Oracle Support [Note 3056559.1](#)

Released January 21, 2025

This document contains the following sections:

- [Critical Patch Update January 2025 Patch Availability Document \(PAD\)](#)
  - [1 Overview](#)
    - [1.1 How To Use This Document](#)
    - [1.2 Terminology in the Tables](#)
    - [1.3 On-Request Patches](#)
    - [1.4 CPU Program and My Oracle Support Patch Recommendations](#)
    - [1.5 My Oracle Support \(MOS\) Conflict Checker Tool](#)
  - [2 What's New in January 2025](#)
    - [2.1 "Final CPU Information \(Error Correction Policies\)"](#)
    - [2.2 "Post Release Patches"](#)
    - [2.3 "Separate PADs for Separate Products"](#)
  - [3 Patch Availability for Oracle Products](#)
    - [3.1 Oracle Database](#)
    - [3.2 Oracle Sun Middleware](#)
    - [3.3 Tools](#)
  - [4 Final CPU History](#)
  - [5 Sources of Additional Information](#)
  - [6 Modification History](#)
  - [7 Documentation Accessibility](#)

Quick Links: [Read Me First](#) [DB 19c](#)

### 1 Overview

3.1.7.4 Oracle Database 19

To provide customers more frequent access to recommended and well-tested collections of patches, Oracle is pleased to introduce Monthly Recommended Patches (MRPs) starting in Nov 2022. MRPs are supported only on the Linux x86-64 platform. Refer to Introducing Monthly Recommended Patches (MRPs) and FAQ (Note 2898740.1) for further details.

Patch Information	19	Comments
Final CPU	See Note 742060.1	
On-Request platforms	32-bit client-only platforms	

Patch Availability for Oracle Database 19

Product Home	Patch	Advisory Number	Comments
Oracle Database Server home	Combo OJVM Release Update 19.26.0.0.250121 and Database Release Update 19.26.0.0.250121 Patch 37262172 for UNIX, or  Combo OJVM Release Update 19.26.0.0.250121 and GI Release Update 19.26.0.0.250121 Patch 37262208, or  Quarterly Full Stack download for Exadata (Jan 2025) 19.26.0 Patch 37262600 for Linux x86-64	CVE-2025-21553, CVE-2022-26345, CVE-2024-7254, CVE-2024-38998, CVE-2024-38999, CVE-2024-52316, CVE-2024-47554, and CVE-2024-52317	See UTL_UNLESCAPE function is now compliant with RFC 3896 and will treat "#" as a reserved character (Note 2981395.1)  See Note 1929745.1, Oracle Recommended Patches – Oracle JavaVM Component Database PSU (OJVM PSU) Patches.  Beginning from Jan2023, Perl updates are included within the quarterly patches  For patch availability, see section 2.2 Post Release Patches
	Oracle Database Server home	Database Release Update 19.26.0.0.250121 Patch 37260924 for UNIX, or GI Release Update 19.26.0.0.250121 Patch 37257886, or Microsoft Windows 32-Bit and x86-64 BP 19.26.0.0.250121 Patch 37486193 or later, or Quarterly Full Stack download for Exadata (Jan 2025) 19.26.0 Patch 37262600 for Linux x86-64, or Quarterly Full Stack download for SuperCluster (Q1.2025) Patch 37262651 for Solaris SPARC 64-Bit	CVE-2022-26345, CVE-2024-7254, CVE-2024-38998, CVE-2024-38999, CVE-2024-52316, CVE-2024-47554, and CVE-2024-52317

Patch Search

Give Feedback...

Patch Simple Search Results

Filters: Patch Name or Number is 37257896

Table

View

Details

Share Link

Edit Search

Patch Name	Description	Release	Platform (Language)	Recommended	Classification	Product	Updated	Size	Download Access
37257896	DB RELEASE UPDATE 19.26.0.0.0 (System Patch)	19.0.0.0.0	Linux x86-64 (American English)		Security	Oracle Database - Enterprise Edition (More...)	12 days ago	3.3 GB	Software

3. Understand the readme for *Patch Numbers Installed as Part of this Bundle Patch and Opatch version details:*

Table 1-2 lists the various patches by patch number that are installed as part of this bundle patch.

Table 1-2 Patch Numbers Installed as Part of this Bundle Patch

Patch Number	Description	Applicable Homes
37260974	Database Release Update 19.26.0.0.250121	Only Oracle home for non-Oracle RAC setup. Both Oracle home and Grid home for Oracle RAC setup.
37260031	OCIW Release Update 19.26.0.0.250121	Both Oracle home and Grid home.
37266638	ACFS Release Update 19.26.0.0.250121 <a href="#">Footnote 2</a>	Only Grid home.
37461387	Tomcat Release Update 19.0.0.0.0 <a href="#">g?ootnote 2</a>	Only Grid home.
36758186	DBWLM Release Update 19.0.0.0.0 <a href="#">g?ootnote 2</a>	Only Grid home.

2.1.1.1 OPatch Utility Information

You must use the OPatch utility version 12.2.0.1.44 or later to apply this patch. Oracle recommends that you use the latest released OPatch version for 12.2 which is available for download from My Oracle Support patch [6880880](#) by selecting the ARU link for the 12.2.0.1.0 OPatch release. It is recommended that you download the OPatch utility and the patch to a shared location in order to access them from any node in the cluster for the patch application on each node.

When patching the Grid home, a shared location on Oracle ACFS only needs to be unmounted on the node where the Grid home is being patched.

The new OPatch utility should be updated in all of the Oracle RAC database homes and the Grid home that are being patched.

For each Oracle RAC database home and the Oracle Grid Infrastructure home that are being patched, as the respective home owner, extract the OPatch utility.

For exact instructions to install OPatch, follow the readme included with the tool download.

A new feature has been added to OPatch to increase performance by deleting inactive patches. See My Oracle Support document [2842102.1](#) OPatch 12.2.0.1.37+ Introduces a New Feature to Delete Inactive Patches in the `ORACLE_HOME/.patch_storage` directory.

For information about OPatch documentation, including any known issues, see My Oracle Support document [233359.1](#) Primary Note For OPatch.

Patch 6880880

Description	OPatch 12.2.0.1.45 for DB 23.0.0.0.0 (Jan 2025)
Product	Oracle Global Lifecycle Management OPatch
Select a Release	OPatch for DB 23.0.0.0.0
Platform or Language	Linux x86
Last Updated	20-JAN-2025
Size	23M (25051279 bytes)
Entitlement Class	Software
Classification	General

Download View Readme View Digest

Patchsets known to include or supersede Patch 6880880

No information available from the patch repository

Download Notes

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4. Download the transferred it to your local machine:

```
[oracle@oraclelab1 PATCH_RU26]$ ls -lrth
total 3.3G
-rw-r--r-- 1 oracle oinstall 3.3G Feb  3 15:39 p37257886_190000_Linux-x86-64.zip
-rw-r--r-- 1 oracle oinstall 24M Feb  3 15:51 p6880880_230000_LINUX.zip
[oracle@oraclelab1 PATCH_RU26]$ pwd
/home/oracle/Patches/PATCH_RU26
[oracle@oraclelab1 PATCH_RU26]$ hostname
oraclelab1.localdomain.com
[oracle@oraclelab1 PATCH_RU26]$
```

5. Take your oracle home and oraInventory backup before proceeding:

```
tar -zcvf /home/oracle/Patches/PATCH_RU26/19.0.0.0_bkp.tar 19.0.0.0
tar -zcvf /home/oracle/Patches/PATCH_RU26/oraInventory_bkp.tar /u01/app/oraInventory
```

```
[oracle@oraclelab1 PATCH_RU26]$ ll
total 6585500
-rw-r--r-- 1 root root 3205477505 Feb  3 16:32 19.0.0.0_bkp.tar
-rw-r--r-- 1 root root 705286 Feb  3 16:40 oraInventory_bkp.tar
-rw-r--r-- 1 oracle oinstall 3512303969 Feb  3 15:39 p37257886_190000_Linux-x86-64.zip
-rw-r--r-- 1 oracle oinstall 25051279 Feb  3 15:51 p6880880_230000_LINUX.zip
[oracle@oraclelab1 PATCH_RU26]$ pwd
/home/oracle/Patches/PATCH_RU26
[oracle@oraclelab1 PATCH_RU26]$
```

6. As per readme need to upgrade OPatch version to proceed with patching:

Current Version: 12.2.0.1.17

mv OPatch OPatch\_bkp\_DDMYY and unzip the OPatch version upgrade patch

```
[oracle@oraclelab1 PATCH_RU26]$ pwd
/home/oracle/Patches/PATCH_RU26
[oracle@oraclelab1 PATCH_RU26]$ export PATH=$ORACLE_HOME/OPatch:$PATH
[oracle@oraclelab1 PATCH_RU26]$ echo $ORACLE_HOME
/u01/app/oracle/product/19.0.0.0/dbhome_1
[oracle@oraclelab1 PATCH_RU26]$ which opatch
/u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/patch
[oracle@oraclelab1 PATCH_RU26]$ opatch version
OPatch Version: 12.2.0.1.17

OPatch succeeded.
[oracle@oraclelab1 PATCH_RU26]$
```

```
[oracle@oraclelab1 dbhome_1]$ pwd
/u01/app/oracle/product/19.0.0.0/dbhome_1
[oracle@oraclelab1 dbhome_1]$ mv OPatch OPatch_bkp_030225
[oracle@oraclelab1 dbhome_1]$ cd /home/oracle/Patches/PATCH_RU26/
[oracle@oraclelab1 PATCH_RU26]$ ll
total 6585500
-rw-r--r-- 1 root root 3205477505 Feb 3 16:32 19.0.0.0_bkp.tar
-rw-r--r-- 1 root root 705286 Feb 3 16:40 oraInventory_bkp.tar
-rw-r--r-- 1 oracle oinstall 3512303969 Feb 3 15:39 p37257886_190000_Linux-x86-64.zip
-rw-r--r-- 1 oracle oinstall 25051279 Feb 3 15:51 p6880880_230000_LINUX.zip
[oracle@oraclelab1 PATCH_RU26]$ unzip p6880880_230000_LINUX.zip /u01/app/oracle/product/19.0.0.0/dbhome_1
Archive:  p6880880_230000_LINUX.zip
caution: filename not matched: /u01/app/oracle/product/19.0.0.0/dbhome_1
[oracle@oraclelab1 PATCH_RU26]$ unzip p6880880_230000_LINUX.zip -d /u01/app/oracle/product/19.0.0.0/dbhome_1
Archive:  p6880880_230000_LINUX.zip
  creating: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/
  inflating: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/patchauto
  creating: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/ocm/
  creating: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/ocm/doc/
  creating: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/ocm/bin/
  creating: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/ocm/lib/
  extracting: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/ocm/generic.zip
  inflating: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/emdpatch.pl
  extracting: /u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/version.txt
```

7. OPatch version upgraded to version 12.2.0.1.45

```
[oracle@oraclelab1 PATCH_RU26]$ export PATH=$ORACLE_HOME/OPatch:$PATH
[oracle@oraclelab1 PATCH_RU26]$ echo $ORACLE_HOME
/u01/app/oracle/product/19.0.0.0/dbhome_1
[oracle@oraclelab1 PATCH_RU26]$ which opatch
/u01/app/oracle/product/19.0.0.0/dbhome_1/OPatch/patch
[oracle@oraclelab1 PATCH_RU26]$ opatch version
OPatch Version: 12.2.0.1.45

OPatch succeeded.
[oracle@oraclelab1 PATCH_RU26]$
```

8. Unzip and Verify the RU patch at unzip location:

```
[oracle@oraclelab1 Patches]$ ll
total 2600
drwxr-x--- 8 oracle oinstall    4096 Jan 20 14:03 37257886
drwxr-xr-x 2 oracle oinstall    132 Feb  3 16:41 PATCH_RU26
-rw-rw-r-- 1 oracle oinstall 2654673 Jan 21 21:28 PatchSearch.xml
[oracle@oraclelab1 Patches]$ cd 37257886
[oracle@oraclelab1 37257886]$ ls -lrth
total 164K
drwxr-x--- 5 oracle oinstall    62 Jan 20 14:03 37268031
drwxr-x--- 5 oracle oinstall    62 Jan 20 14:04 37266638
drwxr-x--- 4 oracle oinstall    48 Jan 20 14:05 37461387
drwxr-x--- 5 oracle oinstall    81 Jan 20 14:05 37260974
drwxr-x--- 4 oracle oinstall    48 Jan 20 14:05 36758186
-rw-r--r-- 1 oracle oinstall     0 Jan 20 14:08 README.txt
drwxr-x--- 2 oracle oinstall  4.0K Jan 20 14:08 automation
-rw-rw-r-- 1 oracle oinstall  5.7K Jan 20 20:04 bundle.xml
-rw-r--r-- 1 oracle oinstall 149K Jan 21 15:38 README.html
[oracle@oraclelab1 37257886]$ pwd
/home/oracle/Patches/37257886
[oracle@oraclelab1 37257886]$
```

9. Verify current patch version:

```
/home/oracle/Patches/37257886
[oracle@oraclelab1 37257886]$ opatch lspatches
29585399;OCW RELEASE UPDATE 19.3.0.0.0 (29585399)
29517242;Database Release Update : 19.3.0.0.190416 (29517242)

OPatch succeeded.
[oracle@oraclelab1 37257886]$ opatch lsinv | grep applied
Patch 29585399      : applied on Thu Apr 18 12:51:33 IST 2019
Patch 29517242      : applied on Thu Apr 18 12:51:17 IST 2019
[oracle@oraclelab1 37257886]$
```

## 10. Check for patch conflict:

```
opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir /home/oracle/Patches/37257886/37260974 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
```

```
opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir /home/oracle/Patches/37257886/37268031 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
```

```
[oracle@oraclelab1 Patches]$ opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir /home/oracle/Patches/37257886/37260974 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
Oracle Interim Patch Installer version 12.2.0.1.45
Copyright (c) 2025, Oracle Corporation. All rights reserved.

PREREQ session

Oracle Home      : /u01/app/oracle/product/19.0.0.0/dbhome_1
Central Inventory : /u01/app/oraInventory
   from           : /u01/app/oracle/product/19.0.0.0/dbhome_1/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/patch/opatch2025-02-03_17-31-16PM_1.log

Invoking prereq "checkconflictagainstohwithdetail"

Prereq "checkConflictAgainstOHWithDetail" passed.

OPatch succeeded.
[oracle@oraclelab1 Patches]$ opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir /home/oracle/Patches/37257886/37268031 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
Oracle Interim Patch Installer version 12.2.0.1.45
Copyright (c) 2025, Oracle Corporation. All rights reserved.

PREREQ session

Oracle Home      : /u01/app/oracle/product/19.0.0.0/dbhome_1
Central Inventory : /u01/app/oraInventory
   from           : /u01/app/oracle/product/19.0.0.0/dbhome_1/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/patch/opatch2025-02-03_17-31-43PM_1.log

Invoking prereq "checkconflictagainstohwithdetail"

Prereq "checkConflictAgainstOHWithDetail" passed.

OPatch succeeded.
[oracle@oraclelab1 Patches]$
```

## 11. Check for System space:

```
opatch prereq CheckSystemSpace -phBaseDir /home/oracle/Patches/37257886/37260974 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
```

```
opatch prereq CheckSystemSpace -phBaseDir /home/oracle/Patches/37257886/37268031 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
```

```
[oracle@oraclelab1 Patches]$ opatch prereq CheckSystemSpace -phBaseDir /home/oracle/Patches/37257886/37268031 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
Oracle Interim Patch Installer version 12.2.0.1.45
Copyright (c) 2025, Oracle Corporation. All rights reserved.

PREREQ session

Oracle Home      : /u01/app/oracle/product/19.0.0.0/dbhome_1
Central Inventory : /u01/app/oraInventory
   from           : /u01/app/oracle/product/19.0.0.0/dbhome_1/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/patch/opatch2025-02-03_17-38-50PM_1.log

Invoking prereq "checksystemspace"

Prereq "checkSystemSpace" passed.

OPatch succeeded.
[oracle@oraclelab1 Patches]$ opatch prereq CheckSystemSpace -phBaseDir /home/oracle/Patches/37257886/37260974 -oh /u01/app/oracle/product/19.0.0.0/dbhome_1
Oracle Interim Patch Installer version 12.2.0.1.45
Copyright (c) 2025, Oracle Corporation. All rights reserved.

PREREQ session

Oracle Home      : /u01/app/oracle/product/19.0.0.0/dbhome_1
Central Inventory : /u01/app/oraInventory
   from           : /u01/app/oracle/product/19.0.0.0/dbhome_1/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/patch/opatch2025-02-03_17-38-55PM_1.log

Invoking prereq "checksystemspace"

Prereq "checkSystemSpace" passed.

OPatch succeeded.
[oracle@oraclelab1 Patches]$
```

## 12. Shutdown DB services:

```
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL>
```

```
[oracle@oraclelab1 37257886]$ lsnrctl stop listener

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 03-FEB-2025 17:23:08

Copyright (c) 1991, 2019, Oracle. All rights reserved.

Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521))
The command completed successfully
[oracle@oraclelab1 37257886]$
```

```
[oracle@oraclelab1 ~]$ ps -ef|grep pmon
oracle    9501  4061  0 17:24 pts/3    00:00:00 grep --color=auto pmon
[oracle@oraclelab1 ~]$ ps -ef|grep tns
root      23      2  0 16:12 ?        00:00:00 [netns]
oracle    9506  4061  0 17:24 pts/3    00:00:00 grep --color=auto tns
[oracle@oraclelab1 ~]$
```

## 13. Apply the RU patch:

```
opatch apply -oh /u01/app/oracle/product/19.0.0.0/dbhome_1 -local -silent
/home/oracle/Patches/37257886/37260974
```

```
[oracle@oraclelab1 Patches]$ opatch apply -oh /u01/app/oracle/product/19.0.0.0/dbhome_1 -local -silent /home/oracle/Patches/37257886/37260974
Oracle Interim Patch Installer version 12.2.0.1.45
Copyright (c) 2025, Oracle Corporation. All rights reserved.

Oracle Home      : /u01/app/oracle/product/19.0.0.0/dbhome_1
Central Inventory : /u01/app/oraInventory
   from           : /u01/app/oracle/product/19.0.0.0/dbhome_1/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/opatch/opatch2025-02-03_17-42-10PM_1.log

Verifying environment and performing prerequisite checks...
-----
Start OOP by Prereq process.
Launch OOP...

Oracle Interim Patch Installer version 12.2.0.1.45
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Oracle Home      : /u01/app/oracle/product/19.0.0.0/dbhome_1
Central Inventory : /u01/app/oraInventory
   from           : /u01/app/oracle/product/19.0.0.0/dbhome_1/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/opatch/opatch2025-02-03_17-42-57PM_1.log

Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 37260974

Do you want to proceed? [y/n]
Y (auto-answered by -silent)
User Responded with: Y
All checks passed.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = '/u01/app/oracle/product/19.0.0.0/dbhome_1')

Is the local system ready for patching? [y/n]
Y (auto-answered by -silent)
User Responded with: Y
Backing up files...

```

```
Patching component oracle.jdk, 1.8.0.201.0...
Patch 37260974 successfully applied.
Sub-set patch [29517242] has become inactive due to the application of a super-set patch [37260974].
Please refer to Doc ID 2161861.1 for any possible further required actions.
Log file location: /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/patch/patch2025-02-03_17-42-57PM_1.log

OPatch succeeded.
[oracle@oraclelab1 Patches]$
```

```
opatch apply -oh /u01/app/oracle/product/19.0.0.0/dbhome_1 -local -silent
/home/oracle/Patches/37257886/37268031
```

```
[oracle@oraclelab1 Patches]$ opatch apply -oh /u01/app/oracle/product/19.0.0.0/dbhome_1 -local -silent /home/oracle/Patches/37257886/37268031
Oracle Interim Patch Installer version 12.2.0.1.45
Copyright (c) 2025, Oracle Corporation. All rights reserved.
```

```
Oracle Home      : /u01/app/oracle/product/19.0.0.0/dbhome_1
Central Inventory : /u01/app/oraInventory
   from           : /u01/app/oracle/product/19.0.0.0/dbhome_1/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/patch/patch2025-02-03_17-53-03PM_1.log

Verifying environment and performing prerequisite checks...
█
```

```
Patch 37268031 successfully applied.
Sub-set patch [29585399] has become inactive due to the application of a super-set patch [37268031].
Please refer to Doc ID 2161861.1 for any possible further required actions.
Log file location: /u01/app/oracle/product/19.0.0.0/dbhome_1/cfgtoollogs/patch/patch2025-02-03_17-53-43PM_1.log

OPatch succeeded.
[oracle@oraclelab1 Patches]$
```

#### 14. Verified the applied patches:

```
[oracle@oraclelab1 Patches]$ opatch lspatches
37268031;OCW RELEASE UPDATE 19.26.0.0.0 (37268031)
37260974;Database Release Update : 19.26.0.0.250121 (37260974)

OPatch succeeded.
[oracle@oraclelab1 Patches]$ opatch lsinv |grep applied
Patch 37268031      : applied on Mon Feb 03 17:54:31 IST 2025
Patch 37260974      : applied on Mon Feb 03 17:48:47 IST 2025
[oracle@oraclelab1 Patches]$
```



## 15. Post RU patching start your DB services and apply patch on DB level:

```
[oracle@oraclelab1 OPatch]$ ./datapatch -verbose
SQL Patching tool version 19.26.0.0.0 Production on Mon Feb  3 18:09:00 2025
Copyright (c) 2012, 2025, Oracle. All rights reserved.

Log file for this invocation: /u01/app/oracle/cfgtoollogs/sqlpatch/sqlpatch_19202_2025_02_03_18_09_00/sqlpatch_invocation.log

Connecting to database...OK
Gathering database info...done
Bootstrapping registry and package to current versions...done
Determining current state...done

Current state of interim SQL patches:
  No interim patches found

Current state of release update SQL patches:
  Binary registry:
    19.26.0.0.0 Release_Update 250118124854: Installed
  SQL registry:
    Applied 19.3.0.0.0 Release_Update 190410122720 successfully on 01-FEB-25 06.53.11.432646 PM

Adding patches to installation queue and performing prereq checks...done
Installation queue:
  No interim patches need to be rolled back
  Patch 37260974 (Database Release Update : 19.26.0.0.250121 (37260974)):
    Apply from 19.3.0.0.0 Release_Update 190410122720 to 19.26.0.0.0 Release_Update 250118124854
  No interim patches need to be applied

Installing patches...
Patch installation complete. Total patches installed: 1

Validating logfiles...done
Patch 37260974 apply: SUCCESS
  logfile: /u01/app/oracle/cfgtoollogs/sqlpatch/37260974/26040769/37260974_apply_ORCL_2025Feb03_18_10_25.log (no errors)
SQL Patching tool complete on Mon Feb  3 18:25:46 2025
[oracle@oraclelab1 OPatch]$
```

### Checking SQL Patches Applied to the Database:

Run `utlrp` to compile if any invalid objects:

```

OBJECTS WITH ERRORS
-----
0

DOC> The following query reports the number of exceptions caught during
DOC> recompilation. If this number is non-zero, please query the error
DOC> messages in the table UTL_RECOMP_ERRORS to see if any of these errors
DOC> are due to misconfiguration or resource constraints that must be
DOC> fixed before objects can compile successfully.
DOC> Note: Typical compilation errors (due to coding errors) are not
DOC> logged into this table: they go into DBA_ERRORS instead.
DOC>#

ERRORS DURING RECOMPILATION
-----
0

Function created.

PL/SQL procedure successfully completed.

Function dropped.

PL/SQL procedure successfully completed.

SQL> █

```

Checking Installed Database Components:

COMP_NAME	VERSION	STATUS
Oracle Database Catalog Views	19.0.0.0.0	VALID
Oracle Database Packages and Types	19.0.0.0.0	VALID
Oracle Real Application Clusters	19.0.0.0.0	OPTION OFF
JServer JAVA Virtual Machine	19.0.0.0.0	VALID
Oracle XDK	19.0.0.0.0	VALID
Oracle Database Java Packages	19.0.0.0.0	VALID
OLAP Analytic Workspace	19.0.0.0.0	VALID
Oracle XML Database	19.0.0.0.0	VALID
Oracle Workspace Manager	19.0.0.0.0	VALID
Oracle Text	19.0.0.0.0	VALID
Oracle Multimedia	19.0.0.0.0	VALID
COMP_NAME	VERSION	STATUS
Spatial	19.0.0.0.0	VALID
Oracle OLAP API	19.0.0.0.0	VALID
Oracle Label Security	19.0.0.0.0	VALID
Oracle Database Vault	19.0.0.0.0	VALID

15 rows selected.