

PATCHING

1. Source the Env file:

```
[oracle@localhost ~]$ . oraenv
ORACLE_SID = [PROD] ? PROD
The Oracle base remains unchanged with value /u01/apps/oracle/server/19.3
[oracle@localhost ~]$
```

2. Navigate to the OPatch Folder:

```
[oracle@localhost ~]$ cd $ORACLE_HOME/OPatch
[oracle@localhost OPatch]$
[oracle@localhost OPatch]$
[oracle@localhost OPatch]$
[oracle@localhost OPatch]$ pwd
/u01/apps/oracle/server/19.3/home/OPatch
```

3. Check for the list of patch applied previously in the server using opatch lsinventory:

opatch - utility used to check the patch status of the oracle software.

lsinventory - used to list all the patches that are applied to oracle home.

NOTE: should run this utility by giving full oracle home path.

```
[oracle@localhost OPatch]$ $ORACLE_HOME/OPatch/opatch lsinventory
Oracle Interim Patch Installer version 12.2.0.1.17
Copyright (c) 2025, Oracle Corporation. All rights reserved.

Oracle Home      : /u01/apps/oracle/server/19.3/home
Central Inventory : /u01/apps/oracle/server/oraInventory
   from           : /u01/apps/oracle/server/19.3/home/oraInst.loc
OPatch version    : 12.2.0.1.17
OUI version       : 12.2.0.7.0
Log file location : /u01/apps/oracle/server/19.3/home/cfgtoollogs/opatch/opatch2025-01-28_22-21-09PM_1.log

Lsinventory Output file location : /u01/apps/oracle/server/19.3/home/cfgtoollogs/opatch/lsinv/lsinventory2025-01-28_22-21-09PM.txt

-----
Local Machine Information::
Hostname: PROD
ARU platform id: 226
ARU platform description: Linux x86-64

Installed Top-level Products (1):

Oracle Database 19c                      19.0.0.0.0
There are 1 products installed in this Oracle Home.

Interim patches (2) :

Patch 29585399      : applied on Thu Apr 18 12:51:33 IST 2019
Unique Patch ID: 22840393
Patch description: "OCW RELEASE UPDATE 19.3.0.0.0 (29585399)"
Created on 9 Apr 2019, 19:12:47 hrs PST8PDT
Bugs fixed:
  27222128, 27572040, 27604329, 27760043, 27877830, 28302580, 28470673
  28621543, 28642469, 28699321, 28710663, 28755846, 28772816, 28785321
  28800508, 28808652, 28815557, 28847541, 28847572, 28870496, 28871040
  28874416, 28877252, 28881191, 28881848, 28888083, 28911140, 28925250
  28925460, 28935956, 28940472, 3, 28942694, 28951332, 28963036, 28968779
```

Alternatively, by using the SQL query we can check the previous patches applied to the database.

SELECT PATCH_ID,ACTION,STATUS FROM DBA_REGISTRY_SQLPATCH;

```
SQL> select PATCH_ID,ACTION,STATUS from dba_registry_sqlpatch;
```

PATCH_ID	ACTION	STATUS
29517242	APPLY	SUCCESS

4. Update the opatch utility when it is older version.
5. Download the OPatch from Oracle Website.
6. Log in to the oracle support webpage and select the patches and updates tab and fill the details with necessary details to download.

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Patches and Updates

Patching Quick Links

What are Recommended Patches?

Software and Patch Search Sites

- Oracle Software Delivery Cloud
- Critical Patch Updates and Security Alerts
- Sun Products
- JD Edwards

Oracle E-Business Suite

How to Find E-Business Suite & Technology Patches

Oracle Server and Tools

Latest Patchsets

All Quick Links open in a new window

Patch Search

Search Saved Searches Recent Searches

Number/Name or Bug Number (Simple) and Platform

Patch Name or Number is 6880880

Platform is Linux x86-64

Exclude superseded patches

JD Edwards Patches Clear Save Search

Plans and Patch Requests

Plans Patch Requests

View Detach

Status	Request ID	Patch Name	Associated Request	Type	Requested
Pending	5117219		PR-5629	Inventory	11-Mar-2016 16:56
Pending	5117219		PR-5649	Inventory	11-Mar-2016 16:56

Activate Windows
Go to Settings to activate Windows.

https://support.oracle.com/epmos/faces/PatchSearchResults?_af.ctrl.state=k3wa26mpf_4&_afLoop=227662219320276

Patch Search

Patch Simple Search Results

Filters: Patch Name or Number is 6880880; Platform is Linux x86-64;

Expanded results to include System Patches for Patch 6880880

Table View Detach Share Link

Patch Name	Description	Release	Platform (Language)	Recommend	Classification	Product	Updated	Size	Download
> 10.1.0.0.0 [1 Item]									
> 11.1.0.0.0 [1 Item]									
> 11.1.10.0.0 [13 Items]									
> 11.1.11.0.0 [1 Item]									
> 11.1.11.1.0 [22 Items]									
> 11.1.7.0.0 [2 Items]									
> 11.1.8.0.0 [26 Items]									
> 11.1.9.2.0 [32 Items]									
> 11.12.1.0.0 [41 Items]									
> 11.2.0.0.0 [1 Item]									
> 12.1.0.1.0 [1 Item]									
> 12.13.9 [1 Item]									
> 12.2.0.1.0 [1 Item]									
> 13.2.0.0.0 [1 Item]									
> 13.9.0.0.0 [1 Item]									
> 18.0.0.0.0 [1 Item]									
> 19.0.0.0.0 [1 Item]									
6880880	OPatch 12.2.0.1.45 for DB 19.0.0.0.0 (Jan 2025) (Patch)	19.0.0.0.0	Linux x86-64 (American English)		General	Oracle Global Lifecycle Management OPatch	7 days ago	125.9 MB	S...
> 20.0.0.0.0 [1 Item]									
> 21.0.0.0.0 [1 Item]									
> 23.0.0.0.0 [1 Item]									

1 Patch Selected Read Me Add to Plan Analyze with OPatch... Download

Rows Selected 1 Columns Hidden 2

1 - 150 of 242

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Patches & Updates > Patch Search Results > [Give Feedback...](#)

Patch Search

Patch Simple Search Results Close

View Detach

Patch Name

> Software [150 Items]

Patch 6880880: OPatch 12.2.0.1.45 for DB 19.0.0.0.0 (Jan 2025)

Last Updated 21-Jan-2025 11:41 (7 days ago)

Product Oracle Global Lifecycle Management OPatch
Release OPatch for DB 19.0.0.0.0
Platform Linux x86-64

Size 125.9 MB
Download Access Software
Classification General
Patch Tag

System Patch Available

Note
This patch is part of the following system patches. Consider downloading a system patch instead.

16671031	P4FA SYSTEM PATCH 11.1.4.0.130311 - APF TESTING	System Patch
17458744	P4FA SYSTEM PATCH 11.1.5.0.130826	System Patch
17563823	P4FA FOR FA REL 6 SYSTEM PATCH 11.1.6.0.130930	System Patch
17599260	P4FA SYSTEM PATCH 11.1.8.0.131009	System Patch
17652067	P4FA SYSTEM PATCH 11.1.7.0.131007	System Patch
17772123	P4FA SYSTEM PATCH 11.1.6.0.131028	System Patch
17838222	P4FA SYSTEM PATCH 11.1.5.0.131023	System Patch
17942799	P4FA FOR FA REL 7 SYSTEM PATCH 11.1.7.0.131105	System Patch
18015885	P4FA FOR SYSTEM PATCH 11.1.7.0.131202	System Patch
18020180	TRACKING BUG FOR CREATING THE R7 P14.4 PATCH ZIP FILES FOR PLATFORMS	System Patch
18070665	TRACKING BUG FOR PLATFORMS R7P14.5 FOR PLATFORMS	System Patch
18079959	P4FA SYSTEM PATCH 11.1.6.0.131210	System Patch
18142630	P4FA FOR SYSTEM PATCH 11.1.6.0.140114	System Patch
18142681	P4FA FOR SYSTEM PATCH 11.1.7.0.140115	System Patch

Release OPatch for DB 19.0.0.0.0

Platform Linux x86-64

Language American English

[Read Me](#) [Download](#) [Add to Plan](#)

[Analyze with OPatch...](#)

All-time Downloads **3560** [View Trends](#)

[Discuss this patch in the community](#)

Activate Windows
Go to Settings to activate Windows.

File Download

Click each file name to download the selected files.
Tip: Use a Download Manager [Learn More...](#)

☐ Include Prerequisites

OPatch 12.2.0.1.45 for DB 19.0.0.0.0 (Jan 2025) (Patch)

p6880880_190000_Linux-x86-64.zip 125.9 MB

Total 1 File (1 Patch) About 2+ minutes (at 1024 KB/sec) 125.9 MB

Note: A Single patch or product bundle can contain multiple files.

[Download File Metadata](#) [View Digest Details](#) [WGET Options](#)

- After downloading move the current opatch folder for backup and extract the zipfile which will create a new Opatch folder like previous one.
- Before and After updating the OPatch we get,

```
[oracle@localhost OPatch]$ ./opatch version
OPatch Version: 12.2.0.1.17

OPatch succeeded.
```

```
[oracle@localhost OPatch]$ ./opatch version
OPatch Version: 12.2.0.1.45

OPatch succeeded.
```

9. Then, check patch status:

```
SQL> select CON_ID, PATCH_ID, PATCH_TYPE, ACTION, DESCRIPTION, SOURCE_VERSION, TARGET_VERSION from cdb_registry_sqlpatch;
```

CON_ID	PATCH_ID	PATCH_TYPE	ACTION	DESCRIPTION	SOURCE_VERSION	TARGET_VERSION
0	29517242	RU	APPLY	Database Release Update : 19.3.0 .0.190416 (29517242)	19.1.0.0.0	19.3.0.0.0

10. Take a full backup including the controlfile and spfile

11. Shutdown the database and stop the listener.

12. Now download the patch file from the oracle SR page for 19c version use 2118136.2 use this number and enter directly into the browser, which leads to the oracle support page.

13. Click the first link and it will ask which file to download, select 3rd option.

Selection(s)

What would you like to download?

- ☐ Oracle Database Base Releases
- ☐ Oracle Database Patchsets
- ☒ Oracle Database Release Updates (RUs)
- ☐ Oracle Database Release Update Revisions (RURs - discontinued since Apr 2023)
- ☐ Oracle Database PSU, SPU(CPU), Bundle Patches (Versions 12.1 & lower)
- ☐ OJVM Update/PSU/Bundle Patches
- ☐ Latest Available Microsoft Windows Patches
- ☐ Monthly Recommended Patches (MRPs)

Additional Clarification

Please select an option above to begin clarifying the issue you are experiencing.

14. Then it will ask version to download, For 19 select version 19

Selection(s)

What would you like to download?

> Oracle Database Release Updates (RUs) [\[Change\]](#)

Please select the version:

- ☐ 21.0.0.0
- ☒ 19.0.0.0
- ☐ 18.0.0.0
- ☐ 12.2.0.1

15. Then, Select the update type for patching use Database update,

19.0.0.0			
Description	Database Update	GI Update	Windows Bundle Patch
JAN 2025 (19.26.0.0.0)	<u>37260974</u>	<u>37257886</u>	<u>37486199</u>
OCT2024 (19.25.0.0.0)	<u>36912597</u>	<u>36916690</u>	<u>36878821</u>
JUL2024 (19.24.0.0.0)	<u>36582781</u>	<u>36582629</u>	<u>36521936</u>
APR2024 (19.23.0.0.0)	<u>36233263</u>	<u>36233126</u>	<u>36219938</u>

16. Then, Click Download,

Patch Search

Patch Simple Search Results

View ▾ Detach

Patch Name
> Software [2 Items]

Close

REC Patch 37260974: DATABASE RELEASE UPDATE 19.26.0.0.0

Last Updated 21-Jan-2025 22:24 (7 days ago)

Product Oracle Database - Enterprise Edition (More...)

Release Oracle Database 19.0.0.0.0

Platform Linux x86-64

Size 1.7 GB

Download Access Software

Classification Security

Patch Tag

System Patch Available

Note

This patch is part of the following system patch. Consider downloading the system patch instead.

37257886 GI RELEASE UPDATE 19.26.0.0.0 System Patch

Bugs Resolved by This Patch

10121473 INCORRECT WAIT EVENT PARAMETER DESCRIPTION FOR "LIBRARY CACHE LOCK"

Release Oracle Database 19.0.0.0.0

Platform Linux x86-64

Language American English

Read Me Download Add to Plan

Analyze with OPatch...

All-time Downloads No history available View Trends

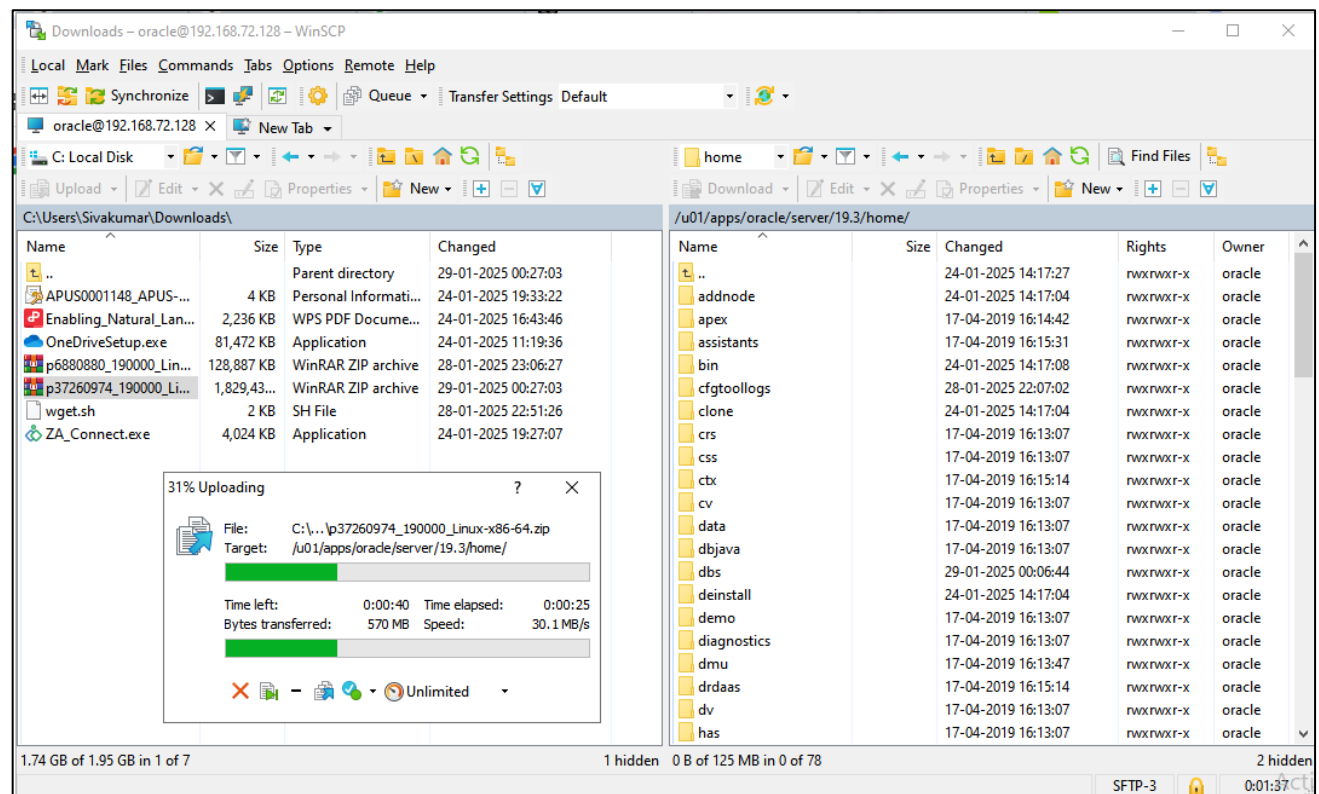
Discuss this patch in the community

17. Click this and file starts to download,

DATABASE RELEASE UPDATE 19.26.0.0.0 (Patch)

 p37260974_190000_Linux-x86-64.zip

18. Move the downloaded file into the Linux Server using WINSCP.



19. Unzip the file in the linux server at any directory. After unzipping the directory with the filename will be created.

```
[oracle@localhost home]$ ll
total 1831680
drwxr-xr-x.  5 oracle oinstall    81 Jan 20 10:00 37260974
```

20. Then, Check for patch conflicts in the server using,

\$ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -ph ./

```
[oracle@localhost 37260974]$ $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -ph ./
Oracle Interim Patch Installer version 12.2.0.1.45
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PREREQ session

Oracle Home      : /u01/apps/oracle/server/19.3/home
Central Inventory: /u01/apps/oracle/server/oraInventory
   from           : /u01/apps/oracle/server/19.3/home/oraInst.loc
OPatch version   : 12.2.0.1.45
OUI version      : 12.2.0.7.0
Log file location: /u01/apps/oracle/server/19.3/home/cfgtoollogs/opatch/opatch2025-01-29_00-49-45AM_1.log

Invoking prereq "checkconflictagainsthwithdetail"

Prereq "checkConflictAgainstOHWithDetail" passed.

OPatch succeeded.
```

21. Then, using the opatch utility apply the patch by - navigate to the patch file location then call the oracle_home/opatch/ opatch apply command to call the utility to the patch file to patch the database.(give y in required area).

```
[oracle@localhost 37260974]$ $ORACLE_HOME/OPatch/patch apply
Oracle Interim Patch Installer version 12.2.0.1.45
Copyright (c) 2025, Oracle Corporation. All rights reserved.

Oracle Home      : /u01/apps/oracle/server/19.3/home
Central Inventory : /u01/apps/oracle/server/oraInventory
   from           : /u01/apps/oracle/server/19.3/home/oraInst.loc
OPatch version    : 12.2.0.1.45
OUI version       : 12.2.0.7.0
Log file location : /u01/apps/oracle/server/19.3/home/cfgtoollogs/patch/patch2025-01-29_00-51-53AM_1.log

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

Do you want to proceed? [y|n]
y
User Responded with: Y
All checks passed.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = '/u01/apps/oracle/server/19.3/home')

Is the local system ready for patching? [y|n]
y
User Responded with: Y
Backing up files...
█
```

22. After patch is succeeded, start the listener and startup the database.
23. Then run the ./datapatch -verbose to apply SQL changes to the database after a patch has been applied to the Oracle binaries using opatch.

```
[oracle@localhost OPatch]$ ./datapatch -verbose
SQL Patching tool version 19.26.0.0.0 Production on Wed Jan 29 01:07:37 2025
Copyright (c) 2012, 2025, Oracle. All rights reserved.

Log file for this invocation: /u01/apps/oracle/server/19.3/cfgtoollogs/sqlpatch/sqlpatch_17849_2025_01_29_01_07_37/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 24-JAN-25 02:23:00.693743 PM

Adding patches to installation queue and performing prereq checks...done
Installation queue:
  1. Patch 37260974: Apply

Installing patches...
^['
Patch installation complete. Total patches installed: 1

Validating logfiles...done
Patch 37260974 apply: SUCCESS
  logfile: /u01/apps/oracle/server/19.3/cfgtoollogs/sqlpatch/37260974/26040769/37260974_apply_PROD_2025Jan29_01_08_40.log (no errors)
SQL Patching tool complete on Wed Jan 29 01:22:34 2025
```

Patch is applied.

24. Check the patch status using the CDB_REGISTRY_SQLPATCH

SELECT PATCH_ID,ACTION,STATUS FROM DBA_REGISTRY_SQLPATCH;

```
SQL> SELECT PATCH_ID,ACTION,STATUS FROM DBA_REGISTRY_SQLPATCH;
```

PATCH_ID	ACTION	STATUS
29517242	APPLY	SUCCESS
37260974	APPLY	SUCCESS

25. Then, there will be invalid objects in the database so run the utlrp.sql script which is in the \$ORACLE_HOME/rdbms/admin

```
[oracle@localhost admin]$ pwd
/u01/apps/oracle/server/19.3/home/rdbms/admin
```

```
SQL> @utlrp.sql

Session altered.

TIMESTAMP
-----
COMP_TIMESTAMP UTLRP_BGN          2025-01-29 01:28:11

DOC> The following PL/SQL block invokes UTL_RECOMP to recompile invalid
DOC> objects in the database. Recompilation time is proportional to the
DOC> number of invalid objects in the database, so this command may take
DOC> a long time to execute on a database with a large number of invalid
DOC> objects.
DOC>
DOC> Use the following queries to track recompilation progress:
DOC>
DOC> 1. Query returning the number of invalid objects remaining. This
DOC> number should decrease with time.
DOC>      SELECT COUNT(*) FROM obj$ WHERE status IN (4, 5, 6);
DOC>
DOC> 2. Query returning the number of objects compiled so far. This number
DOC> should increase with time.
DOC>      SELECT COUNT(*) FROM UTL_RECOMP_COMPILED;
DOC>
DOC> This script automatically chooses serial or parallel recompilation
DOC> based on the number of CPUs available (parameter cpu_count) multiplied
DOC> by the number of threads per CPU (parameter parallel_threads_per_cpu).
DOC> On RAC, this number is added across all RAC nodes.
DOC>
DOC> UTL_RECOMP uses DBMS_SCHEDULER to create jobs for parallel
```


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.

26. The patching of 19C Database is completed.

ROLLBACK THE PATCHING:

27. Use the command: opatch rollback -id <patch_id>

```
SQL> SELECT PATCH_ID,ACTION,STATUS FROM DBA_REGISTRY_SQLPATCH;
```

PATCH_ID	ACTION	STATUS
29517242	APPLY	SUCCESS
37260974	APPLY	SUCCESS