

# Oracle Database 12c Release 1 (12.1) Installation On Oracle Linux 7.8

This article describes the installation of Oracle Database 12c Release 1 (12.1) (64-bit) on Oracle Linux 7.8 (64-bit). The is based on a server installation with a minimum of 3G swap, with SELinux set to permissive and the firewall disabled.

## Download Software:

Download the Oracle software from OTN or MOS depending on your support status.

- [OTN: Oracle Database 12c Release 1 \(12.1.0.2\) Software \(64-bit\).](#)
- [edelivery: Oracle Database 12c Release 1 \(12.1.0.2\) Software \(64-bit\)](#)

## Unpack Files:

Unzip the files.

```
Running] - Oracle VM VirtualBox : 1
View Input Devices Help
Applications Places Terminal
oracle@pr:/u01
File Edit View Search Terminal Help
[oracle@pr u01]$
[oracle@pr u01]$ cd /u01/
[oracle@pr u01]$ ll
total 2625108
drwxr-xr-x. 3 oracle oinstall      4096 Apr 17 22:22 app
drwx-----. 2 oracle oinstall     16384 Apr 11 13:23 lost+found
-rw-r--r--. 1 oracle oinstall 1673544724 Apr 10 19:39 V46095-01_1of2.zip
-rw-r--r--. 1 oracle oinstall 1014530602 Apr 10 19:36 V46095-01_2of2.zip
[oracle@pr u01]$
[oracle@pr u01]$
[oracle@pr u01]$
[oracle@pr u01]$ unzip V46095-01_1of2.zip
Archive: V46095-01_1of2.zip
  creating: database/
  creating: database/rpm/
 inflating: database/rpm/cvuqdisk-1.0.9-1.rpm
  creating: database/response/
 inflating: database/response/netca.rsp
 inflating: database/response/db_install.rsp
 inflating: database/response/dbca.rsp
```

➤ You should now have a single directory called "database" containing installation files.

## Oracle Installation Prerequisites:

Perform either the Automatic Setup or the Manual Setup to complete the basic prerequisites. The Additional Setup is required for all installations.

### Automatic Setup:

If you plan to use the "oracle-rdbms-server-12cR1-preinstall" package to perform all your prerequisite setup, issue the following command.

**Command : yum install oracle-rdbms-12cR1-preinstall -y**

```
PR_node1 [Running] - Oracle VM VirtualBox : 1
File Machine View Input Devices Help
Applications Places Terminal

root@pr_node1:~#
File Edit View Search Terminal Help
[root@pr_node1 ~]# yum install oracle-database-server-12cR2-preinstall -y
Loaded plugins: langpacks, ulninfo
Resolving Dependencies
--> Running transaction check
--> Package oracle-database-server-12cR2-preinstall.x86_64 0:1.0-5.el7 will be installed
--> Processing Dependency: ksh for package: oracle-database-server-12cR2-preinstall-1.0-5.el7.x86_64
--> Processing Dependency: libaio-devel for package: oracle-database-server-12cR2-preinstall-1.0-5.el7.x86_64
--> Running transaction check
--> Package ksh.x86_64 0:20120801-144.0.1.el7_9 will be installed
--> Package libaio-devel.x86_64 0:0.3.109-13.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                                Arch      Version              Repository            Size
=====
Installing:
oracle-database-server-12cR2-preinstall x86_64    1.0-5.el7            ol7_latest            19 k
Installing for dependencies:
ksh                                      x86_64    20120801-144.0.1.el7_9 ol7_latest            882 k
libaio-devel                           x86_64    0.3.109-13.el7       ol7_latest            12 k
=====

Transaction Summary
=====
Install 1 Package (+2 Dependent packages)

Total download size: 913 k
Installed size: 3.2 M
Downloading packages:
warning: /var/cache/yum/x86_64/7Server/ol7_latest/packages/libaio-devel-0.3.109-13.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID ec551f03: NOKEY
Public key for libaio-devel-0.3.109-13.el7.x86_64.rpm is not installed
(1/3): libaio-devel-0.3.109-13.el7.x86_64.rpm | 12 kB 00:00:00
(2/3): oracle-database-server-12cR2-preinstall-1.0-5.el7.x86_64.rpm | 19 kB 00:00:00
(3/3): ksh-20120801-144.0.1.el7_9.x86_64.rpm | 882 kB 00:00:01
-----
Total                                     589 kB/s | 913 kB 00:00:01
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
Importing GPG key 0xEC551F03:
  Userid   : "Oracle OSS group (Open Source Software group) <build@oss.oracle.com>"
  Fingerprint: 4214 4123 fecf c55b 9086 313d 72f9 7b74 ec55 1f03
  Package   : 7:oraclelinux-release-7.8-1.0.7.el7.x86_64 (@anaconda/7.8)
  From      : /etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
Running transaction check
Running transaction test
```

Earlier versions of Oracle Linux required manual setup of the Yum repository by following the instructions at <http://public-yum.oracle.com>.

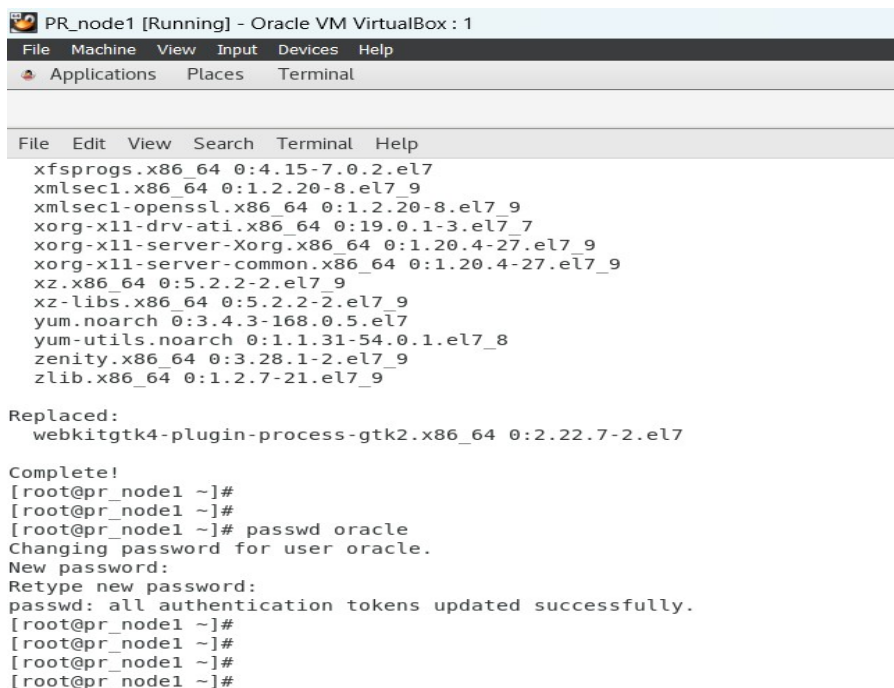
It is probably worth doing a full update as well, but this is not strictly speaking necessary.

## # yum update

```
~~~~~
[root@pr_node1 ~]# yum update -y
Loaded plugins: langpacks, ulninfo
Resolving Dependencies
--> Running transaction check
--> Package ModemManager.x86_64 0:1.6.10-3.el7 will be updated
--> Package ModemManager.x86_64 0:1.6.10-4.el7 will be an update
--> Package ModemManager-glib.x86_64 0:1.6.10-3.el7 will be updated
--> Package ModemManager-glib.x86_64 0:1.6.10-4.el7 will be an update
--> Package NetworkManager.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-adsl.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-adsl.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-config-server.noarch 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-config-server.noarch 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-glib.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-glib.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-libnm.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-libnm.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-ppp.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-ppp.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-team.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-team.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-tui.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-tui.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package NetworkManager-wifi.x86_64 1:1.18.4-3.el7 will be updated
--> Package NetworkManager-wifi.x86_64 1:1.18.8-2.0.1.el7_9 will be an update
--> Package SDL.x86_64 0:1.2.15-16.el7 will be updated
--> Package SDL.x86_64 0:1.2.15-17.el7 will be an update
--> Package abrt.x86_64 0:2.1.11-57.0.1.el7 will be updated
--> Package abrt.x86_64 0:2.1.11-60.0.3.el7 will be an update
--> Package abrt-addon-ccpp.x86_64 0:2.1.11-57.0.1.el7 will be updated
--> Package abrt-addon-ccpp.x86_64 0:2.1.11-60.0.3.el7 will be an update
--> Package abrt-addon-kerneloops.x86_64 0:2.1.11-57.0.1.el7 will be updated
--> Package abrt-addon-kerneloops.x86_64 0:2.1.11-60.0.3.el7 will be an update
--> Package abrt-addon-pstoreoops.x86_64 0:2.1.11-57.0.1.el7 will be updated
--> Package abrt-addon-pstoreoops.x86_64 0:2.1.11-60.0.3.el7 will be an update
--> Package abrt-addon-python.x86_64 0:2.1.11-57.0.1.el7 will be updated
--> Package abrt-addon-python.x86_64 0:2.1.11-60.0.3.el7 will be an update
```

## Additional Setup:

- Set the password for the "oracle" user.



```
PR_node1 [Running] - Oracle VM VirtualBox : 1
File Machine View Input Devices Help
Applications Places Terminal

File Edit View Search Terminal Help
xfsprogs.x86_64 0:4.15-7.0.2.el7
xmlsec1.x86_64 0:1.2.20-8.el7_9
xmlsec1-openssl.x86_64 0:1.2.20-8.el7_9
xorg-x11-drv-ati.x86_64 0:19.0.1-3.el7_7
xorg-x11-server-Xorg.x86_64 0:1.20.4-27.el7_9
xorg-x11-server-common.x86_64 0:1.20.4-27.el7_9
xz.x86_64 0:5.2.2-2.el7_9
xz-libs.x86_64 0:5.2.2-2.el7_9
yum.noarch 0:3.4.3-168.0.5.el7
yum-utils.noarch 0:1.1.31-54.0.1.el7_8
zenity.x86_64 0:3.28.1-2.el7_9
zlib.x86_64 0:1.2.7-21.el7_9

Replaced:
webkitgtk4-plugin-process-gtk2.x86_64 0:2.22.7-2.el7

Complete!
[root@pr_node1 ~]#
[root@pr_node1 ~]#
[root@pr_node1 ~]# passwd oracle
Changing password for user oracle.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@pr_node1 ~]#
[root@pr_node1 ~]#
[root@pr_node1 ~]#
[root@pr_node1 ~]#
```

- Set secure Linux to permissive by editing the "/etc/selinux/config" file, making sure the SELINUX flag is set as follows.

**# SELINUX=permissive** >> In { vi /etc/selinux/config }

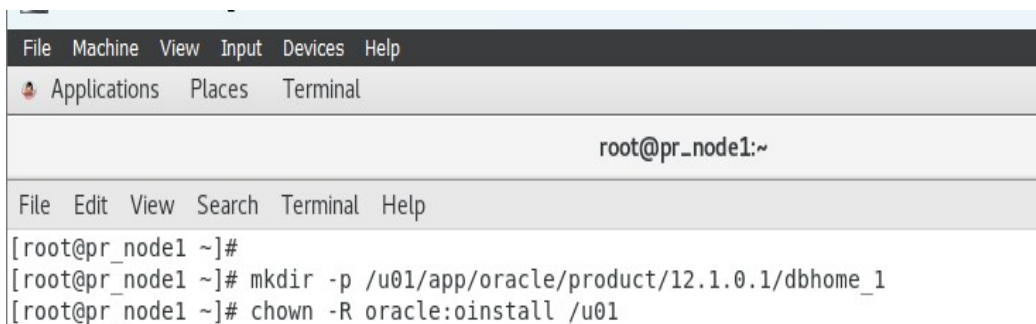
Once the change is complete, restart the server or run the following command.

### # setenforce Permissive

If you have the Linux firewall enabled, you will need to disable or configure it, as shown [here](#) or [here](#). To disable it, do the following.

```
[root@pr_node1 ~]#  
[root@pr_node1 ~]# hostname -i  
172.20.10.2  
[root@pr_node1 ~]#  
[root@pr_node1 ~]# systemctl disable firewalld.service  
Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.service.  
Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.  
[root@pr_node1 ~]# systemctl stop firewalld.service  
[root@pr_node1 ~]#  
[root@pr_node1 ~]#  
[root@pr_node1 ~]#
```

- Create the directories in which the Oracle software will be installed.



The screenshot shows a terminal window with a menu bar (File, Machine, View, Input, Devices, Help) and a sub-menu bar (Applications, Places, Terminal). The terminal prompt is root@pr\_node1:~. Below the prompt, the following commands are executed:

```
[root@pr_node1 ~]#  
[root@pr_node1 ~]# mkdir -p /u01/app/oracle/product/12.1.0.1/dbhome_1  
[root@pr_node1 ~]# chown -R oracle:oinstall /u01
```

Putting mount points directly under root without mounting separate disks to them is typically a bad idea. It's done here for simplicity, but for a real installation "/" storage should be reserved for the OS.

- Unless you are working from the console, or using SSH tunnelling, login as root and issue the following command.

```
[root@pr_node1 ~]#  
[root@pr_node1 ~]#  
[root@pr_node1 ~]# xhost +  
access control disabled, clients can connect from any host  
[root@pr_node1 ~]#  
[root@pr_node1 ~]#  
[root@pr_node1 ~]# echo $DISPLAY  
:  
[root@pr_node1 ~]#
```

- Add the following lines at the end of the "/home/oracle/.bash\_profile" file.

```
[oracle@pr_node1 ~]$  
[oracle@pr_node1 ~]$  
[oracle@pr_node1 ~]$  
[oracle@pr_node1 ~]$ cat .bash_profile  
# .bash_profile  
  
# Get the aliases and functions  
if [ -f ~/.bashrc ]; then  
    . ~/.bashrc  
fi  
  
# User specific environment and startup programs  
  
PATH=$PATH:$HOME/.local/bin:$HOME/bin  
  
export PATH  
[oracle@pr_node1 ~]$  
[oracle@pr_node1 ~]$
```

### # Oracle Settings

export TMP=/tmp

export TMPDIR=\$TMP

export ORACLE\_HOSTNAME=dr.node1.localdomain

export ORACLE\_UNQNAME=orcl

export ORACLE\_BASE=/u01/app/oracle

export ORACLE\_HOME=\$ORACLE\_BASE/product/12.1.0.2.0/dbhome\_1

export ORACLE\_SID=orcl

export PATH=/usr/sbin:\$PATH

export PATH=\$ORACLE\_HOME/bin:\$PATH

export LD\_LIBRARY\_PATH=\$ORACLE\_HOME/lib:/lib:/usr/lib

export CLASSPATH=\$ORACLE\_HOME/jlib:\$ORACLE\_HOME/rdbms/jlib



## Installation:

- Set the Display environmental variable same as root user in oracle user.

Log into the oracle user. If you are using X emulation then set the DISPLAY environmental variable.

```
[Running] - Oracle VM VirtualBox: 1
View Input Devices Help
Applications Places Terminal

oracle@pr:/u01/database

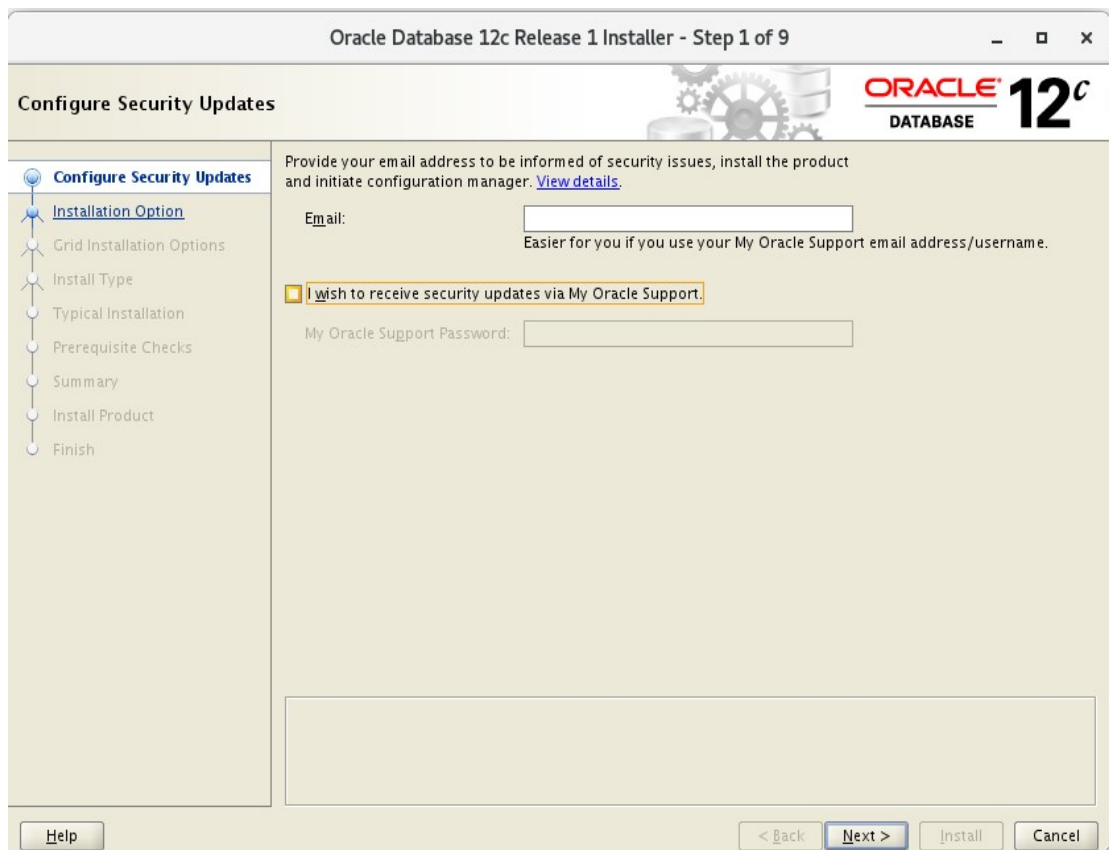
[root@pr u01]#
[root@pr u01]# xhost +
access control disabled, clients can connect from any host
[root@pr u01]#
[root@pr u01]# echo $DISPLAY
:0
[root@pr u01]#
[root@pr u01]# su - oracle
Last login: Wed Apr 17 22:23:10 IST 2024 on pts/0
[oracle@pr ~]$
[oracle@pr ~]$ cd /u01/database/
[oracle@pr database]$
[oracle@pr database]$ export DISPLAY=:0;
[oracle@pr database]$
[oracle@pr database]$ echo $DISPLAY
:0
[oracle@pr database]$
[oracle@pr database]$ ./runInstaller
Starting Oracle Universal Installer...

Checking Temp space: must be greater than 500 MB.   Actual 7006 MB   Passed
Checking swap space: must be greater than 150 MB.   Actual 5992 MB   Passed
Checking monitor: must be configured to display at least 256 colors.   Actual 16777216   Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2024-04-17_10-28-33PM. Please wait ...[oracle@pr database]$
```

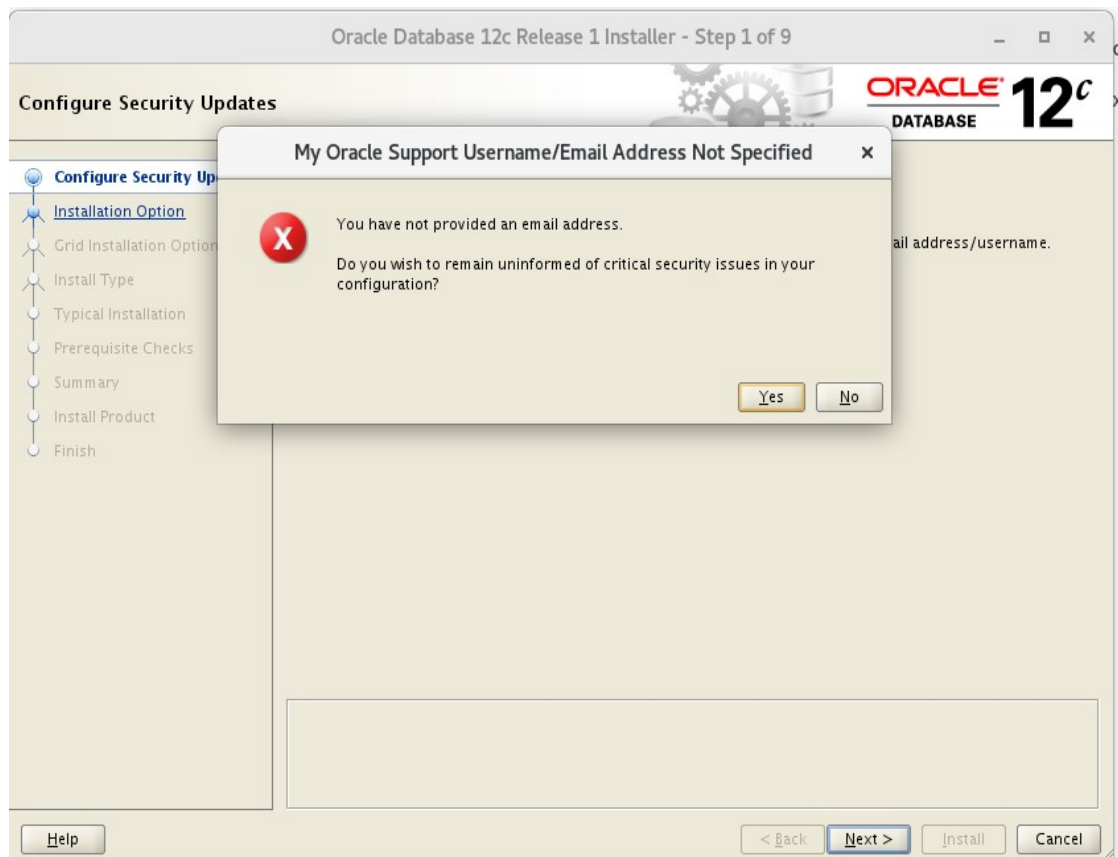
Start the Oracle Universal Installer (OUI) by issuing the following command in the database directory.

# ./runInstaller

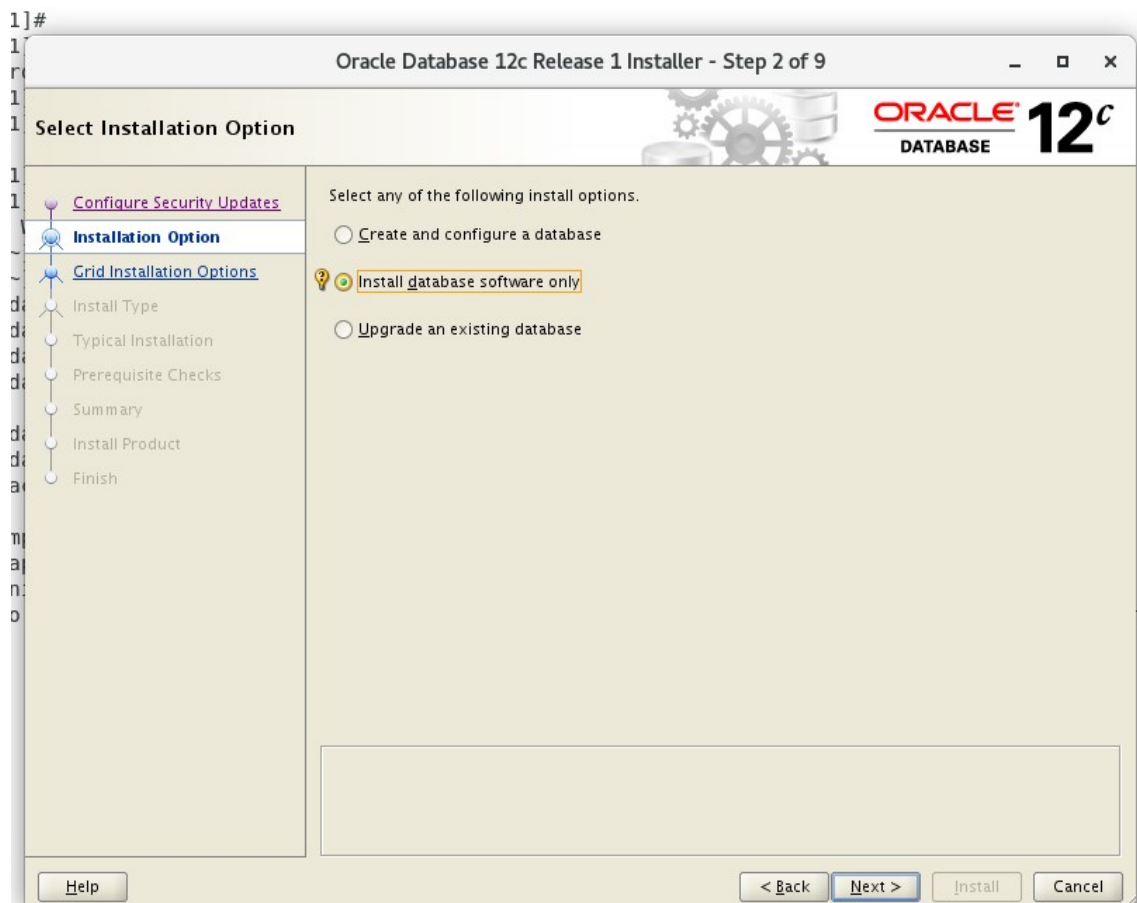
- **Configure Security Updates:**



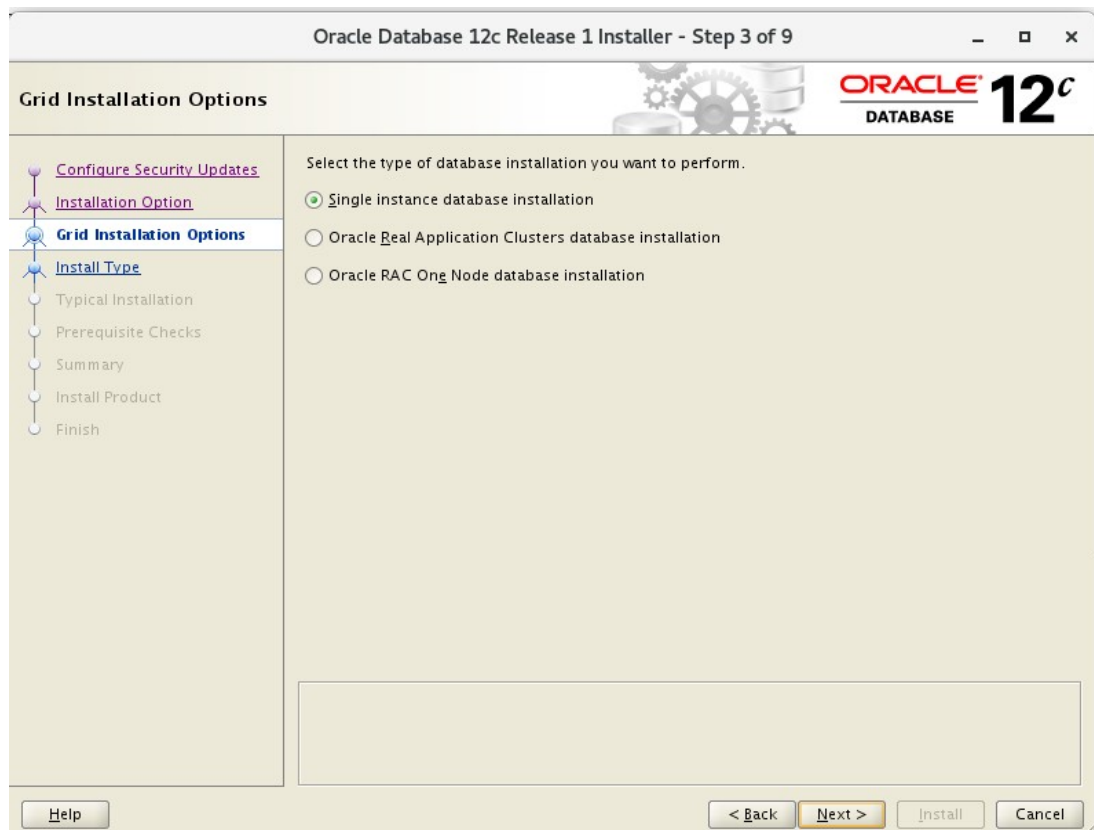
➤ My Oracle Support Credentials:



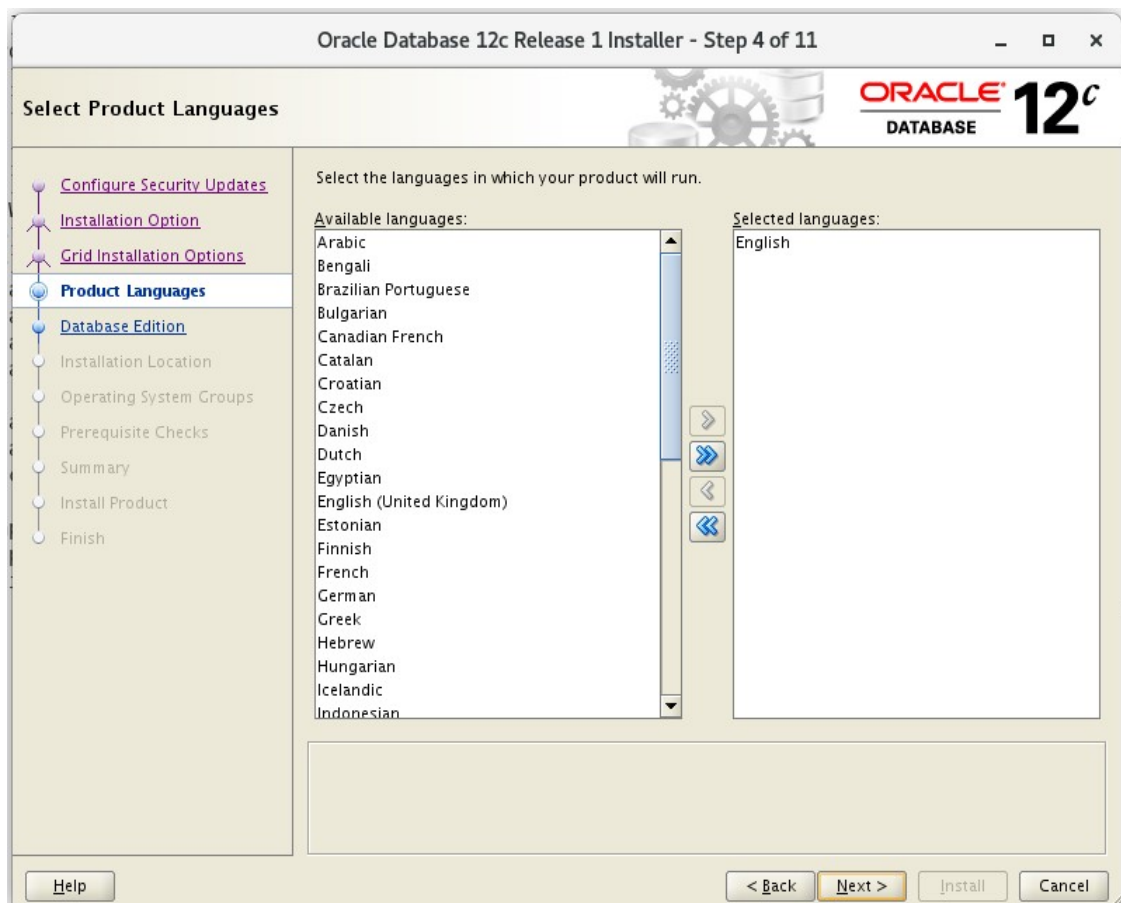
➤ Select Installation Type:



- Grid Installation Options: Select single or RAC installation & Click Next.

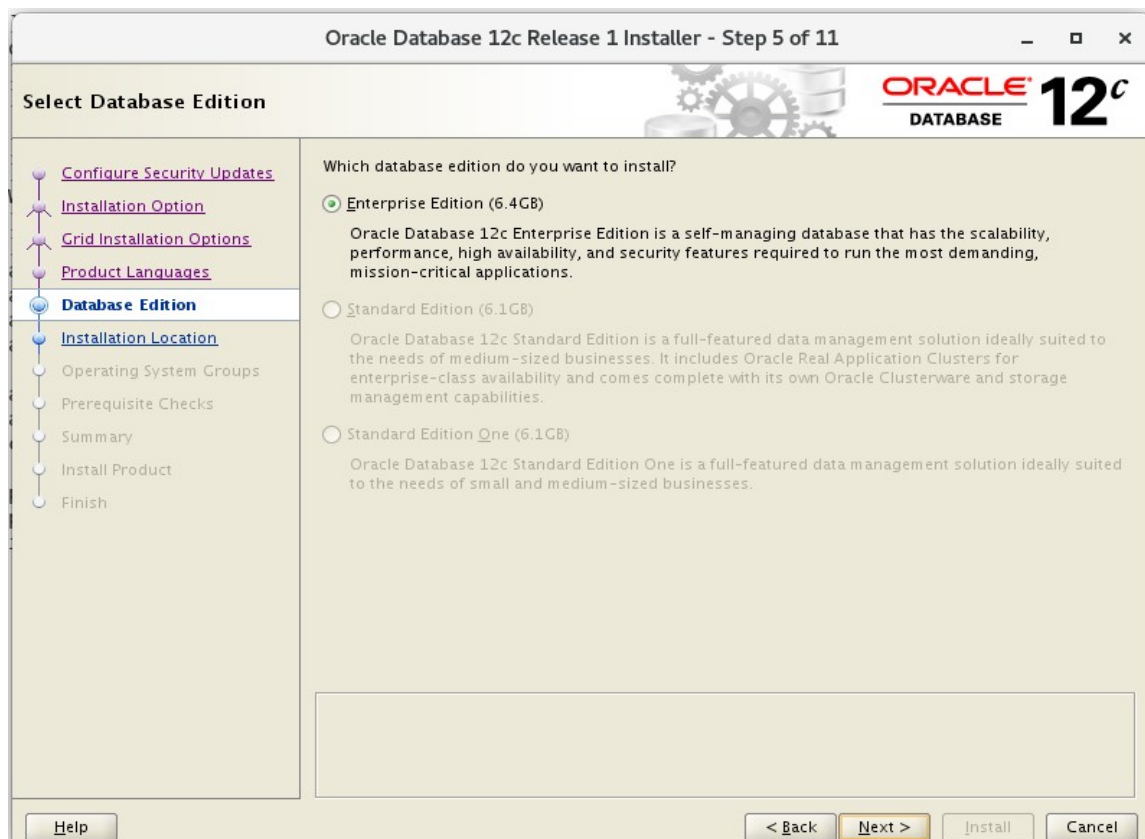


- Select product Languages:

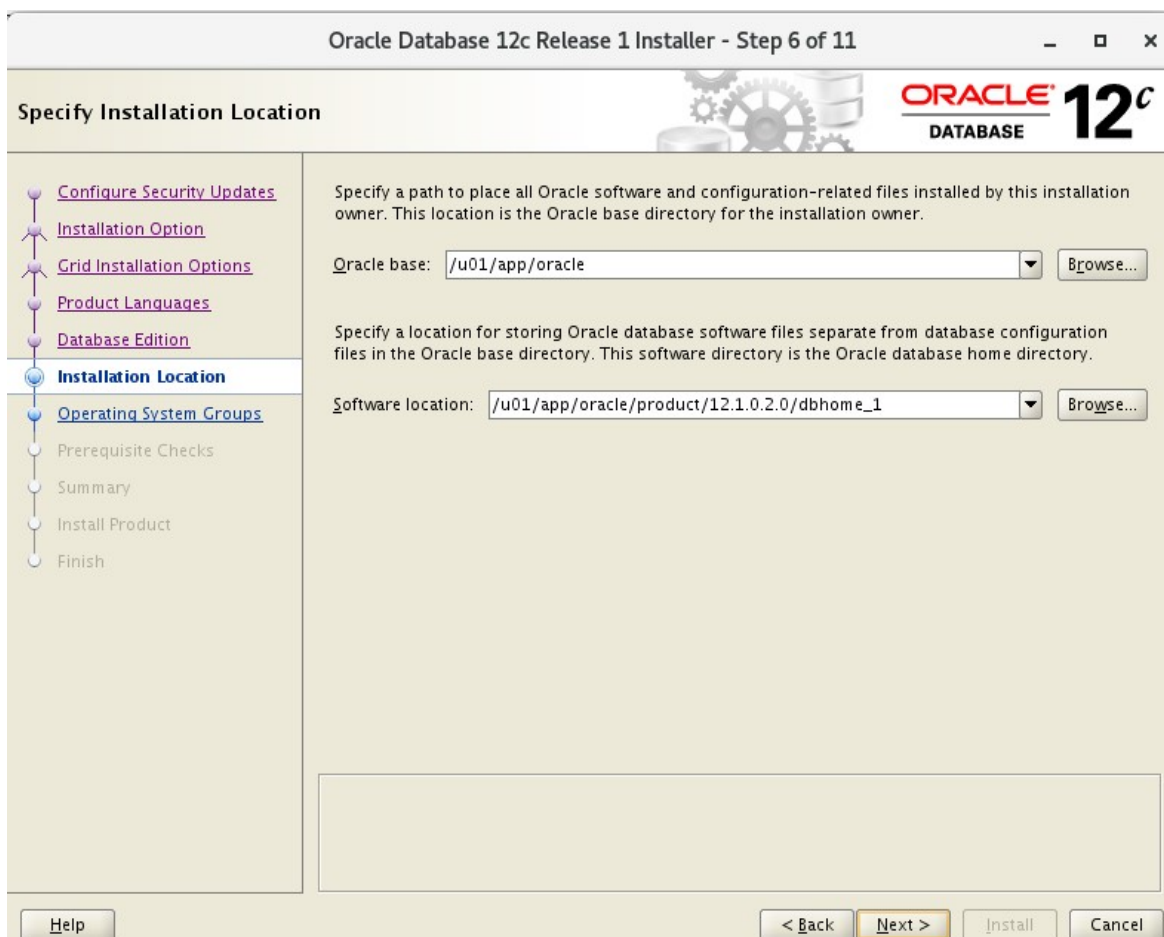




➤ Database Edition: Select & Click Next.



➤ Installation location: Specify the Oracle\_home location for installation.



- Operating system groups: Click Next.

Oracle Database 12c Release 1 Installer - Step 7 of 11

**Privileged Operating System groups**

Configure Security Updates  
Installation Option  
Grid Installation Options  
Product Languages  
Database Edition  
Installation Location  
**Operating System Groups**  
Prerequisite Checks  
Summary  
Install Product  
Finish

SYS privileges are required to create a database using operating system (OS) authentication. Membership in OS Groups grants the corresponding SYS privilege, eg. membership in OSDBA grants the SYSDBA privilege.

Database Administrator (OSDBA) group: dba

Database Operator (OSOPER) group (Optional): oper

Database Backup and Recovery (OSBACKUPDBA) group: dba

Data Guard administrative (OSDGDBA) group: dba

Encryption Key Management administrative (OSKMDBA) group: dba

Help < Back Next > Install Cancel

- Summary:

Oracle Database 12c Release 1 Installer - Step 9 of 11

**Summary**

Configure Security Updates  
Installation Option  
Grid Installation Options  
Product Languages  
Database Edition  
Installation Location  
Operating System Groups  
Prerequisite Checks  
**Summary**  
Install Product  
Finish

**Oracle Database 12c Release 1 Installer**

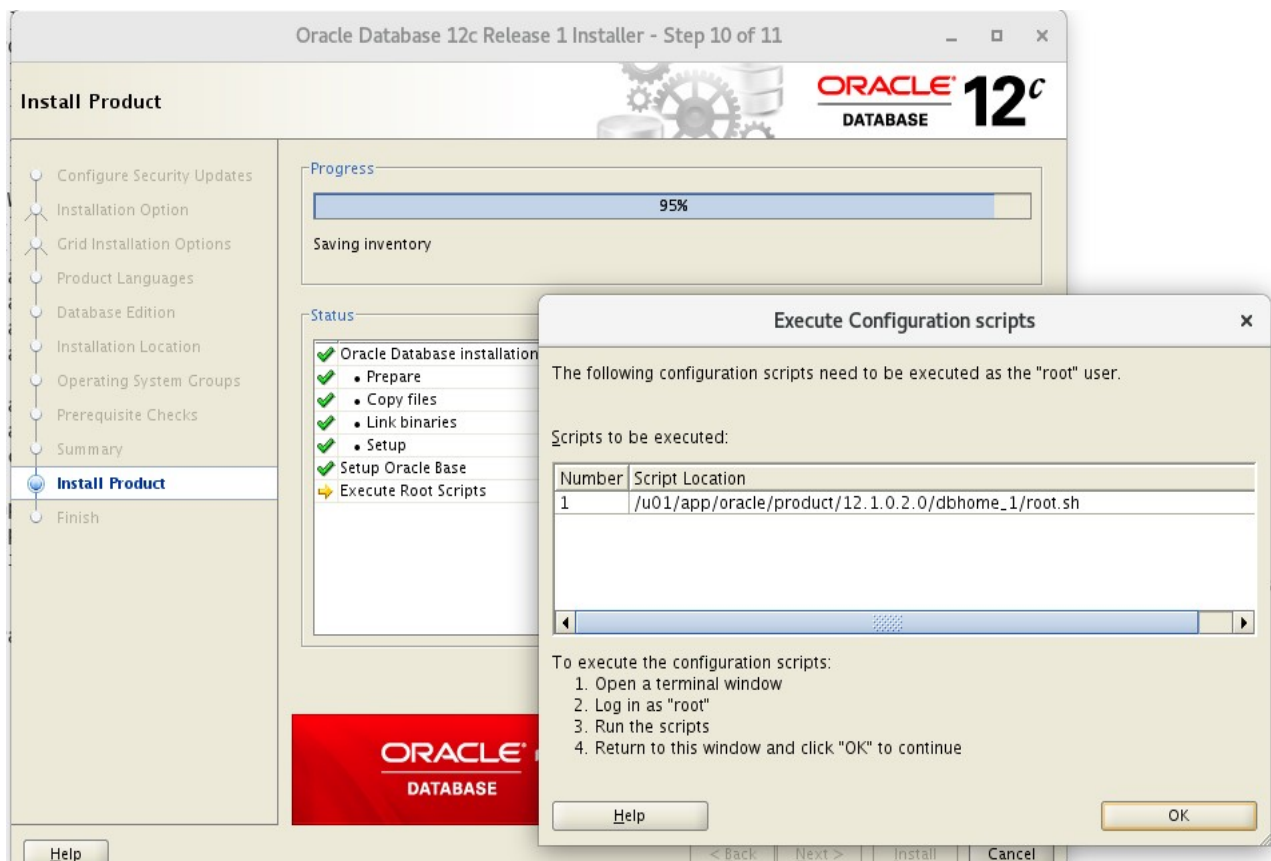
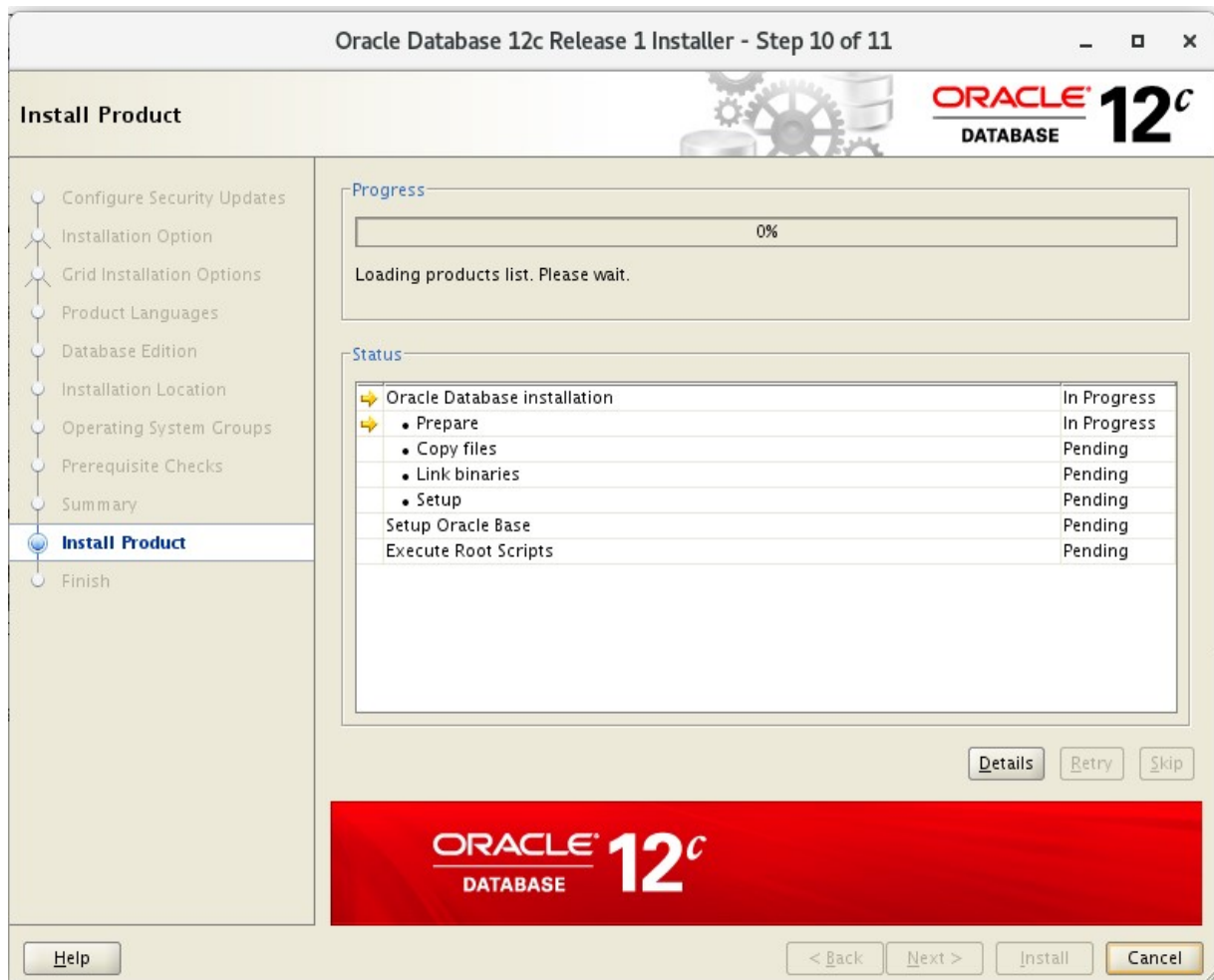
**Global settings**

- Disk space: required 6.4 GB available 14.42 GB [\[Edit\]](#)
- Source location: /u01/database/install/./stage/products.xml
- Database edition: Enterprise Edition (Install database software only) [\[Edit\]](#)
- Oracle base: /u01/app/oracle [\[Edit\]](#)
- Software location: /u01/app/oracle/product/12.1.0.2.0/dbhome\_1 [\[Edit\]](#)
- Privileged Operating System groups: dba (OSDBA), oper (OSOPER), dba (OSBACKUPDBA), dba

Save Response File...

Help < Back Next > Install Cancel

- Install Product: After the progress complete, click on install.



- Copy & Run in root user and just enter:

```
[root@pr ~]# /u01/app/oraInventory/orainstRoot.sh
Changing permissions of /u01/app/oraInventory.
Adding read,write permissions for group.
Removing read,write,execute permissions for world.

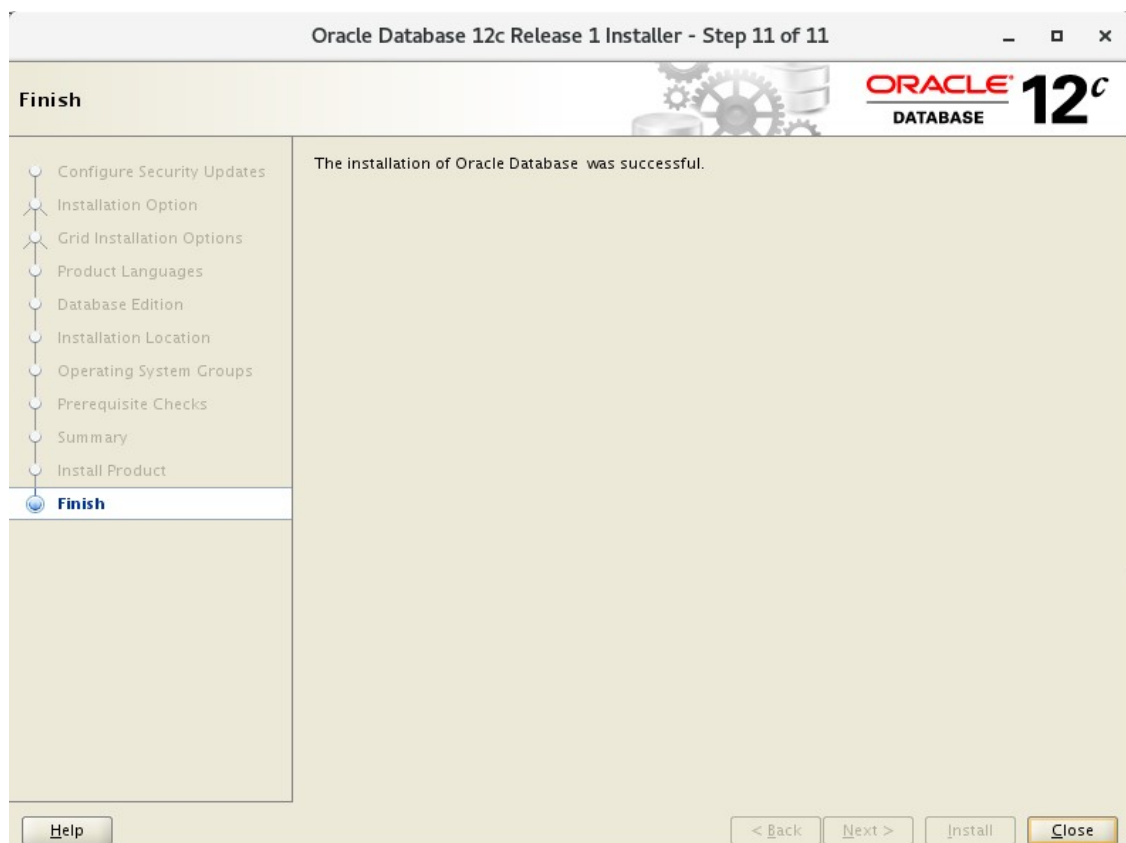
Changing groupname of /u01/app/oraInventory to oinstall.
The execution of the script is complete.
[root@pr ~]#
[root@pr ~]# /u01/app/oracle/product/12.1.0.2.0/dbhome_1/root.sh
Performing root user operation.

The following environment variables are set as:
    ORACLE_OWNER= oracle
    ORACLE_HOME=  /u01/app/oracle/product/12.1.0.2.0/dbhome_1

Enter the full pathname of the local bin directory: [/usr/local/bin]:
    Copying dbhome to /usr/local/bin ...
    Copying oraenv to /usr/local/bin ...
    Copying coraenv to /usr/local/bin ...

Creating /etc/oratab file...
Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root script.
Now product-specific root actions will be performed.
[root@pr ~]#
```

- Finish:

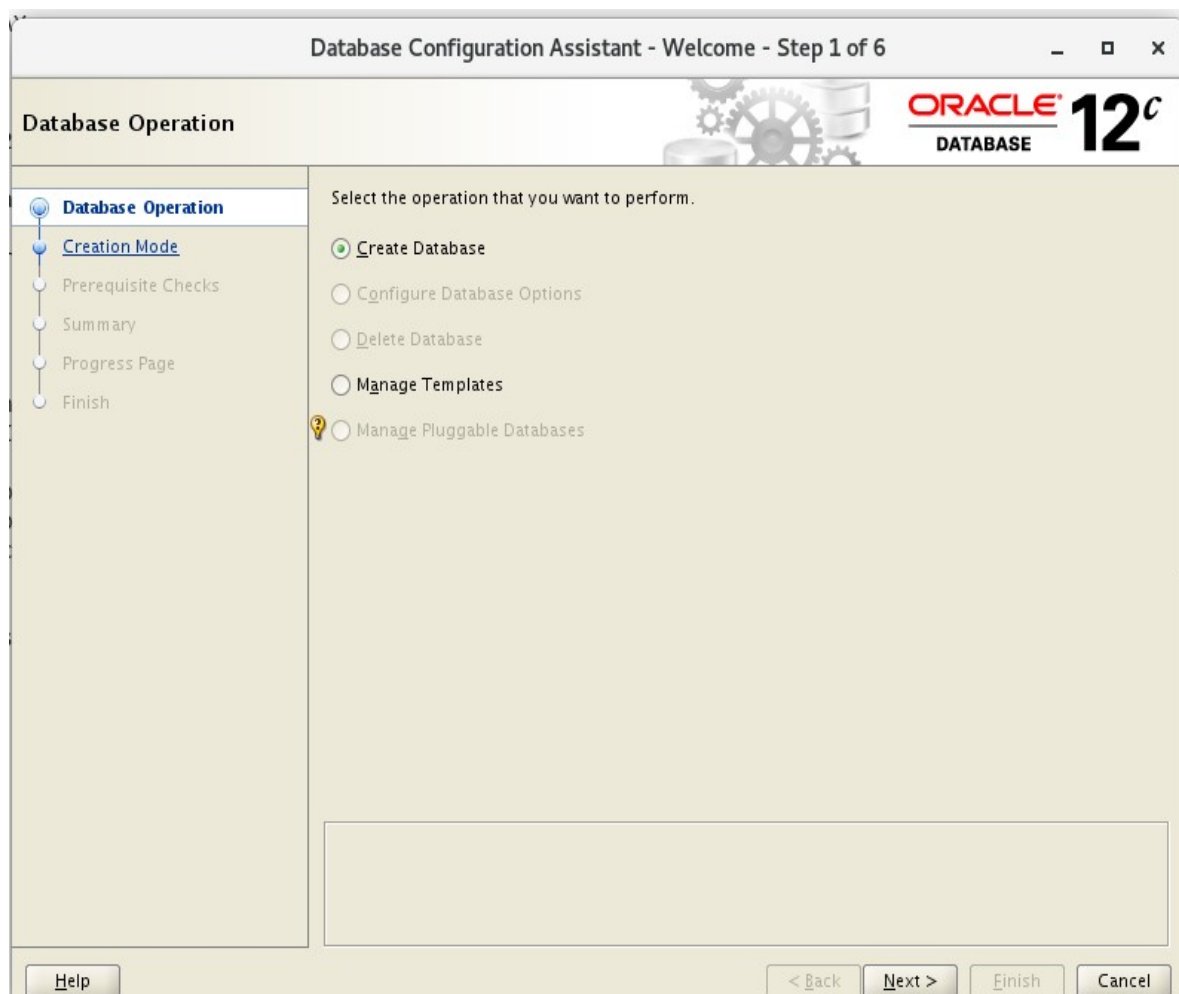


- After the installation software only run “dbca” to install and configure database:

```
/u01/app/oraInventory/logs/installActions2024-04-17_10-28-33PM.log

[oracle@pr database]$
[oracle@pr database]$
[oracle@pr database]$
[oracle@pr database]$
[oracle@pr database]$ cd
[oracle@pr ~]$
[oracle@pr ~]$
[oracle@pr ~]$ dbca
[oracle@pr ~]$
[oracle@pr ~]$
```

- Database Operation: Select Create database & Click Next.





➤ **Creation Mode:**

- # Give database name (anyname) : orcl
- # Password for database
- # If you want to create Pluggable database check the box if not uncheck the box and give the pluggable database name : pdborcl

# Click Next.

Database Configuration Assistant - Create Database - Step 2 of 6

Creation Mode

Database Operation  
Creation Mode  
Prerequisite Checks  
Summary  
Progress Page  
Finish

Create a database with default configuration

Global Database Name: orcl

Storage Type: File System

Database Files Location: {ORACLE\_BASE}/oradata Browse...

Fast Recovery Area: {ORACLE\_BASE}/fast\_recovery\_area Browse...

Database Character Set: WE8MSWIN1252 - MS Windows Code Page 1252 8-bit Wes...

Administrative Password: .....

Confirm Password: .....

☒ Create As Container Database

Pluggable Database Name: pdborcl

☐ Advanced Mode

Help < Back Next > Finish Cancel

- Perform Prerequisite Checks:
- Summary : Click finish

Database Configuration Assistant - Create Database - Step 4 of 6

ORACLE DATABASE 12<sup>c</sup>

## Summary

[Database Operation](#)  
[Creation Mode](#)  
[Prerequisite Checks](#)  
**Summary**  
[Progress Page](#)  
[Finish](#)

Database Configuration Assistant: Summary

### Create Database - Summary

**Database Configuration Summary**

**Global Database Name:** orcl  
**Database Configuration Type:** Single Instance  
**SID:** orcl  
**Create As Container Database:** Yes  
**Number of Pluggable Databases:** 1  
**Pluggable Database Name:** pdborcl  
**Storage Type:** File System  
**Memory Configuration Type:** Automatic Memory Management  
**Template Name:** General Purpose or Transaction Processing

**Database Configuration Details**

**Database Components**

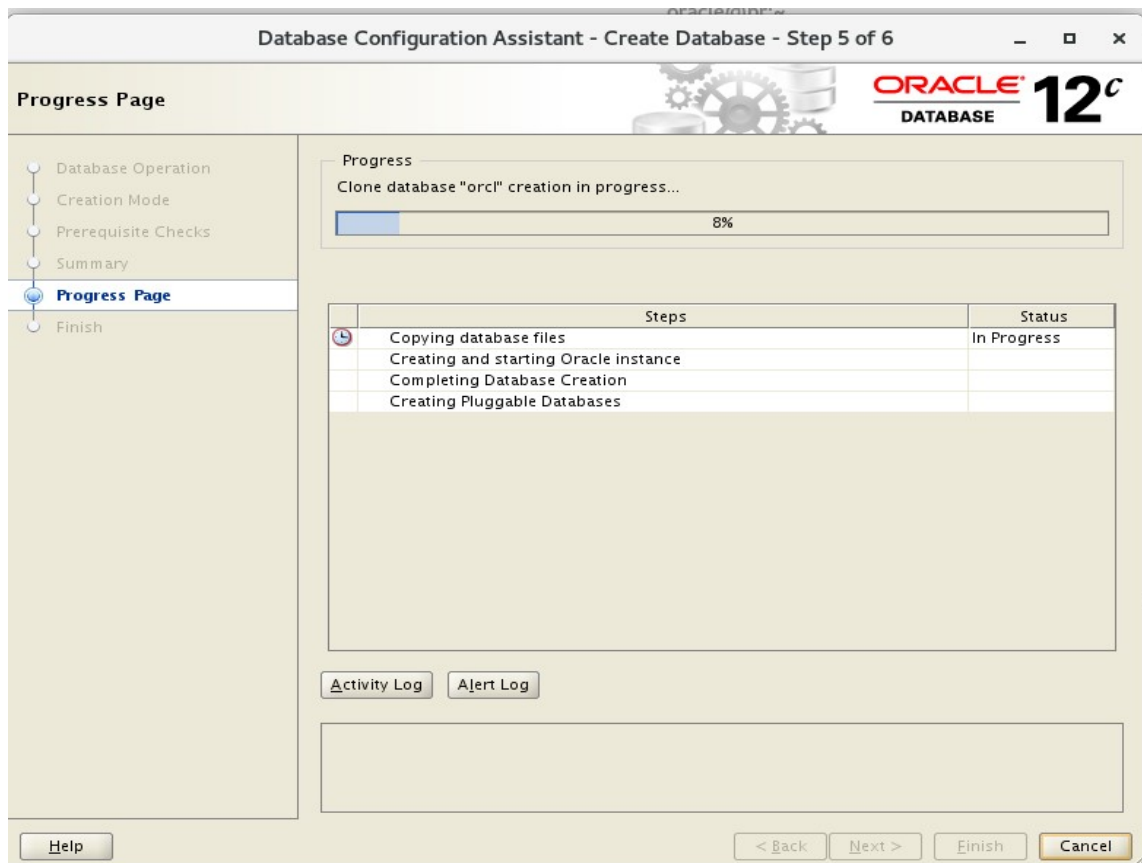
Component	Selected
Oracle JVM	true
Oracle Text	true
Oracle Multimedia	true
Oracle OLAP	true
Oracle Spatial	true
Oracle Label Security	true
Oracle Application Express	true
Oracle Database Vault	true

**Initialization Parameters**

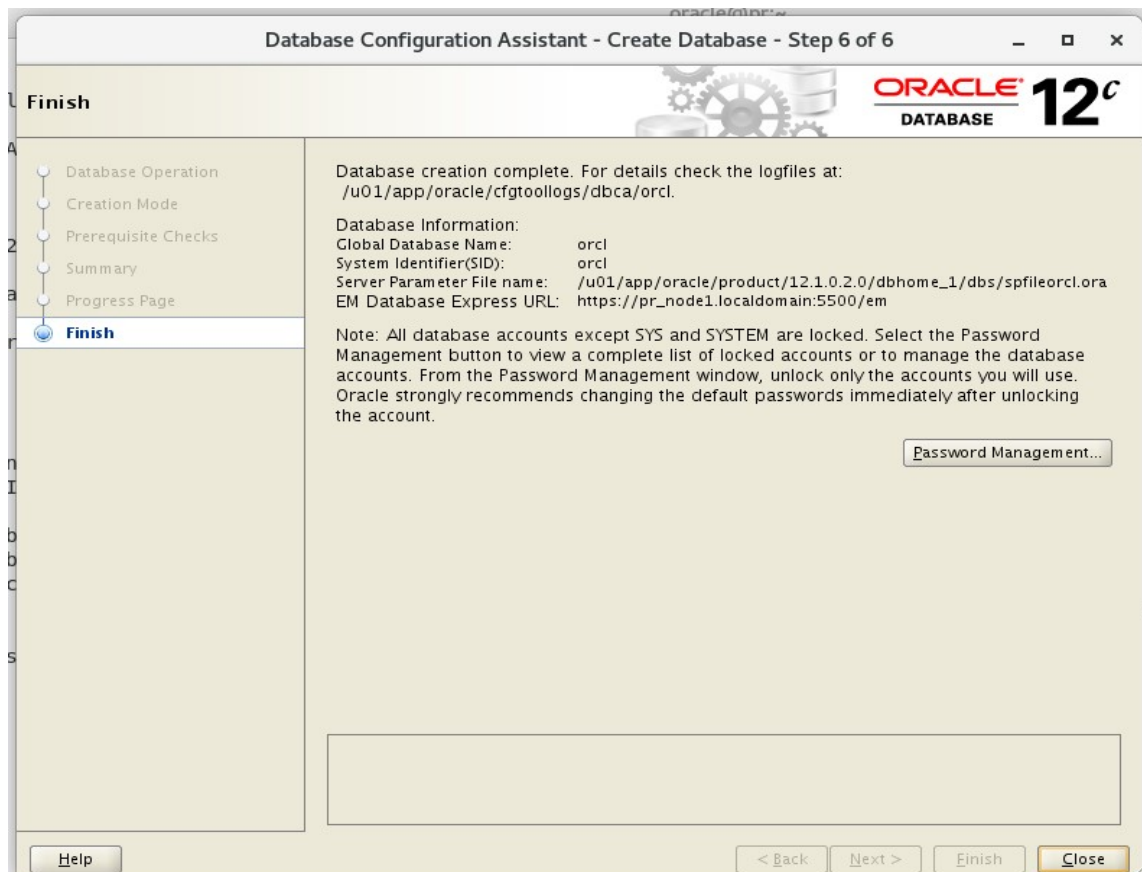
Name	Value
audit_file_dest	{ORACLE_BASE}/admin/{DB_UNIQUE_NAME}/adump
audit_trail	db
compatible	12.1.0.2.0

[Help](#)
[< Back](#)
[Next >](#)
[Finish](#)
[Cancel](#)

➤ Progress Page: Click next



➤ Finish:



## Post Installation:

Edit the "/etc/oratab" file setting the restart flag for each instance to 'Y'.

```
cdb1:/u01/app/oracle/product/12.1.0.2/db_1:Y
```

### ➤ Oracle Network Configuration[ONC] (Listener.ora, tnsnames.ora & sqlnet.ora):

```
[oracle@pr admin]$  
[oracle@pr admin]$ pwd  
/u01/app/oracle/product/12.1.0.2.0/dbhome_1/network/admin  
[oracle@pr admin]$ ll  
total 20  
-rw-r--r--. 1 oracle oinstall 352 Apr 11 16:24 listener.ora  
drwxr-xr-x. 2 oracle oinstall 4096 Apr 11 16:20 samples  
-rw-r--r--. 1 oracle oinstall 373 Oct 31 2013 shrept.lst  
-rw-r--r--. 1 oracle oinstall 199 Apr 11 16:24 sqlnet.ora  
-rw-r-----. 1 oracle oinstall 434 Apr 11 16:27 tnsnames.ora  
[oracle@pr admin]$
```

```
oracle@pr:/u01/app/oracle/product/12.1.0.2.0/dbhome_1/network/admin  
-rw-r--r--. 1 oracle oinstall 774 Apr 18 16:06 tnsnames.ora  
[oracle@pr admin]$  
[oracle@pr admin]$ cat listener.ora  
  
# listener.ora Network Configuration File:/u01/app/oracle/product/12.1.0.2.0/dbhome_1/network/admin/listener.ora  
# Generated by Oracle configuration tools.  
  
LISTENER =  
  (DESCRIPTION_LIST =  
    (DESCRIPTION =  
      (ADDRESS = (PROTOCOL = IPC) (KEY = EXTPROC1))  
      (ADDRESS = (PROTOCOL = TCP) (HOST = 172.20.10.6) (PORT = 1521))  
    )  
  )  
  
SID_LIST_LISTENER =  
  (SID_LIST =  
    (SID_DESC =  
      (GLOBAL_DBNAME = orcl)  
      (ORACLE_HOME = /u01/app/oracle/product/12.1.0.2.0/dbhome_1)  
      (SID_NAME = orcl)  
    )  
  )  
[oracle@pr admin]$ cat tnsnames.ora  
  
# tnsnames.ora Network Configuration File: /u01/app/oracle/product/12.1.0.2.0/dbhome_1/network/admin/tnsnames.ora  
# Generated by Oracle configuration tools.  
  
LISTENER = (ADDRESS = (PROTOCOL = TCP) (HOST = 172.20.10.6) (PORT = 1521))  
  
ORCL =  
  (DESCRIPTION =  
    (ADDRESS_LIST =  
      (ADDRESS = (PROTOCOL = TCP) (HOST = 172.20.10.6) (PORT = 1521))  
    )  
    (CONNECT_DATA =  
      (SERVICE_NAME = orcl)  
    )  
  )  
  
PDBORCL =  
  (DESCRIPTION =  
    (ADDRESS = (PROTOCOL = TCP) (HOST = 172.20.10.6) (PORT = 1521))  
    (CONNECT_DATA =  
      (SERVER = DEDICATED)  
      (SERVICE_NAME = PDBORCL)  
    )  
  )
```

➤ After oracle network configuration, need to start listener:

Commands: lsnrctl start listener

>>> To start the listener

: lsnrctl status listener

>>> To check the status of listener

```
oracle@pr:/u01/app/oracle/product/12.1.0.2.0/dbhome_1/network/admin
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
[oracle@pr admin]$
[oracle@pr admin]$ lsnrctl status

LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 19-APR-2024 22:36:31

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Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=IPC) (KEY=EXTPROC)))
STATUS of the LISTENER
-----
Alias                     LISTENER
Version                   TNSLSNR for Linux: Version 12.1.0.2.0 - Production
Start Date                19-APR-2024 22:35:31
Uptime                    0 days 0 hr. 1 min. 0 sec
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      OFF
Listener Parameter File   /u01/app/oracle/product/12.1.0.2.0/dbhome_1/network/admin/listener.ora
Listener Log File         /u01/app/oracle/diag/tnslsnr/pr/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc) (KEY=EXTPROC)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp) (HOST=172.20.10.6) (PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcps) (HOST=pr.node1) (PORT=5500)) (Security=(my_wallet_directory=
Services Summary...
Service "orcl" has 2 instance(s).
  Instance "orcl", status UNKNOWN, has 1 handler(s) for this service...
  Instance "orcl", status READY, has 1 handler(s) for this service...
Service "orclXDB" has 1 instance(s).
  Instance "orcl", status READY, has 1 handler(s) for this service...
Service "pdborcl" has 1 instance(s).
  Instance "orcl", status READY, has 1 handler(s) for this service...
The command completed successfully
[oracle@pr admin]$
```



➤ Pre-check of database:

```
oracle@pr:/u01/app/oracle/product/12.1.0.2.0/dbhome_1/network/admin

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> show parameter name

NAME                                TYPE                                VALUE
-----                                -                                -
cell_offloadgroup_name              string                             
db_file_name_convert                string                              /u01/app/oracle/oradata/ORCL,
                                     /u01/app/oracle/oradata/ORCL_D
                                     R, /u01/app/oracle/oradata/ORC
                                     L/164F10280414194EE063060A14AC
                                     8BF1, /u01/app/oracle/oradata/
                                     ORCL_DR/PDBORCL
db_name                             string                              orcl
db_unique_name                      string                              ORCL
global_names                        boolean                             FALSE
instance_name                      string                              orcl

NAME                                TYPE                                VALUE
-----                                -                                -
lock_name_space                    string                             
log_file_name_convert               string                              /u01/app/oracle/oradata/ORCL,
                                     /u01/app/oracle/oradata/ORCL_D
                                     R
pdb_file_name_convert               string                             
processor_group_name                string                             
service_names                       string                              ORCL
SQL>
SQL> select INST_ID,NAME,LOG_MODE,OPEN_MODE,DATABASE_ROLE,CDB from gv$database;

INST_ID NAME      LOG_MODE  OPEN_MODE  DATABASE_ROLE  CDB
-----
1 ORCL        ARCHIVELOG  READ WRITE  PRIMARY        YES

SQL> show pdbs

CON_ID CON_NAME          OPEN MODE  RESTRICTED
-----
2 PDB$SEED          READ ONLY  NO
3 PDBORCL            MOUNTED

SQL> alter pluggable database PDBORCL open;

Pluggable database altered.

SQL>
```

~~~~~END~~~~~