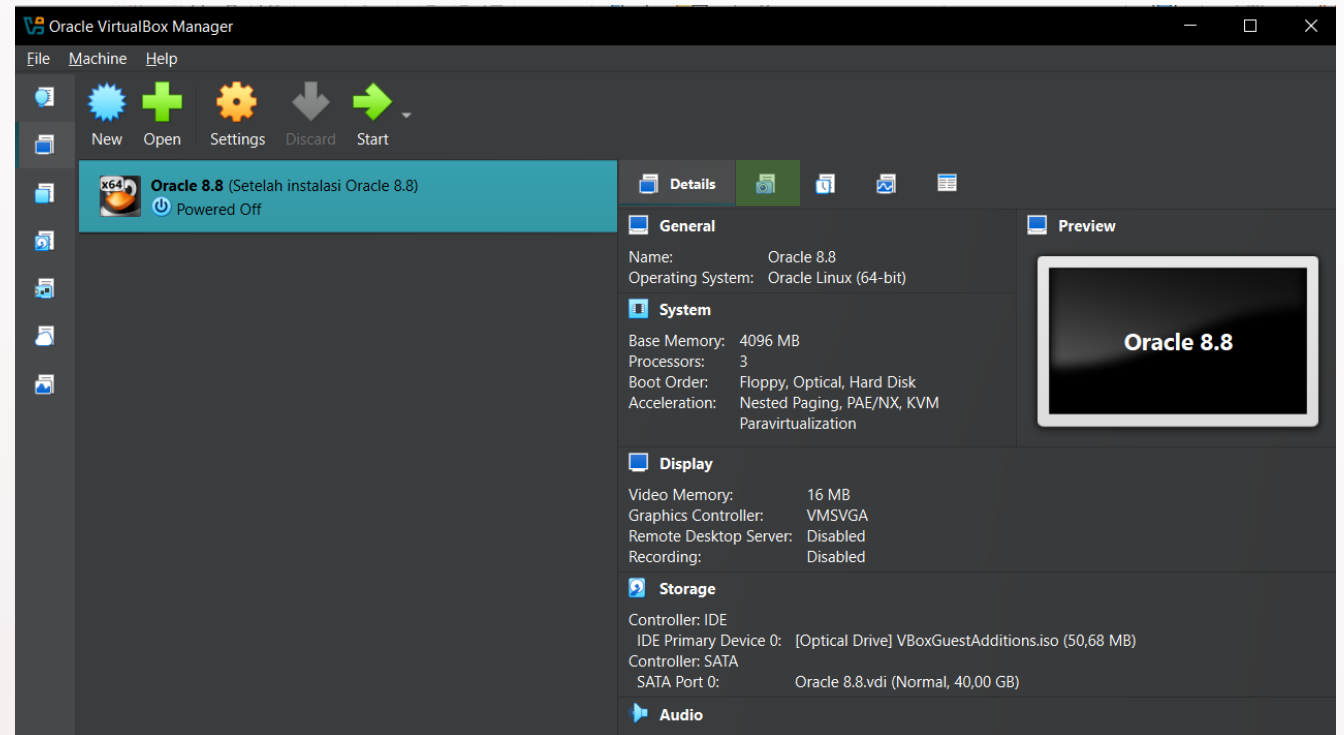# Instalasi Oracle Database 23ai pada Oracle 8.8
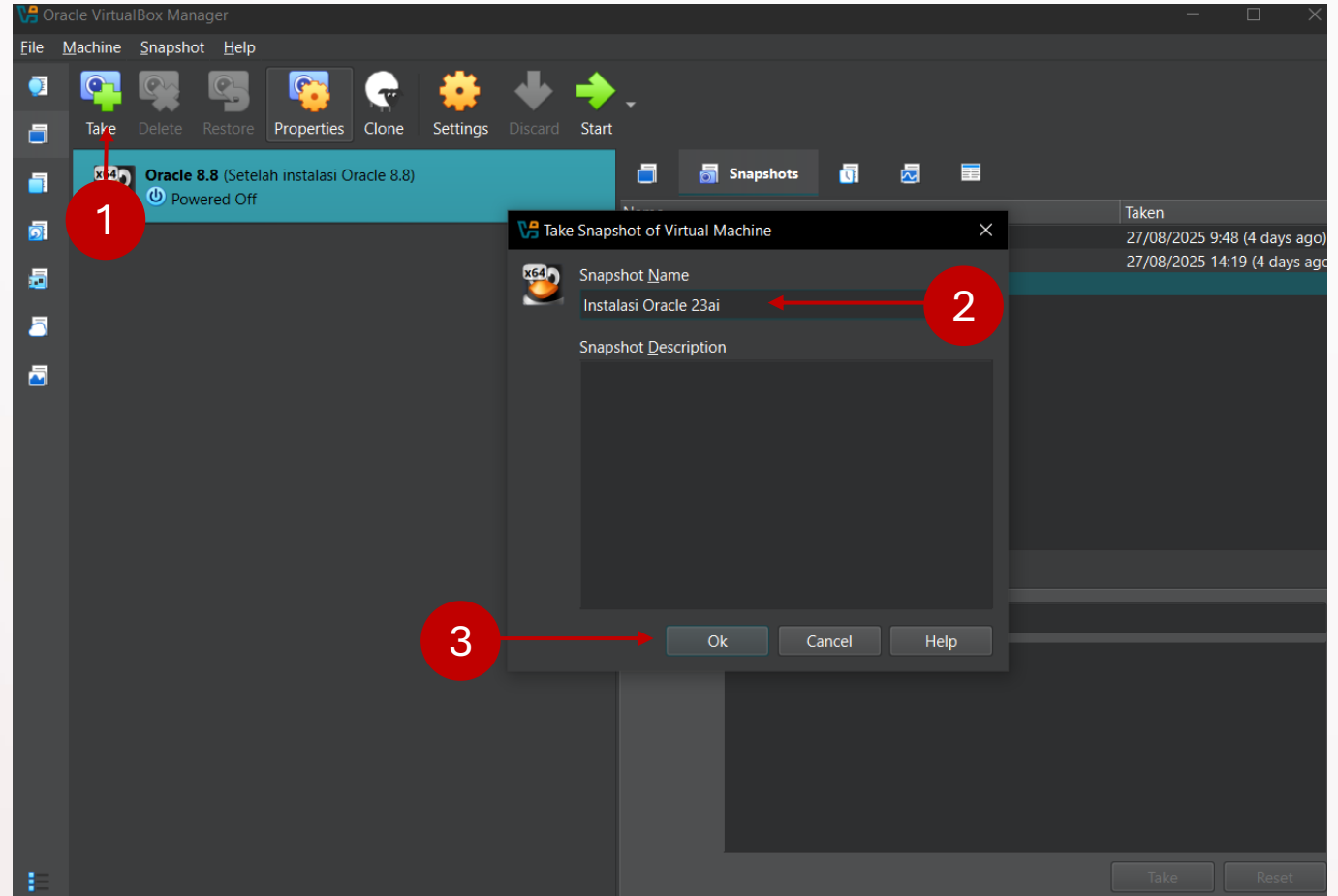
Praktikum Oracle Database Administrator

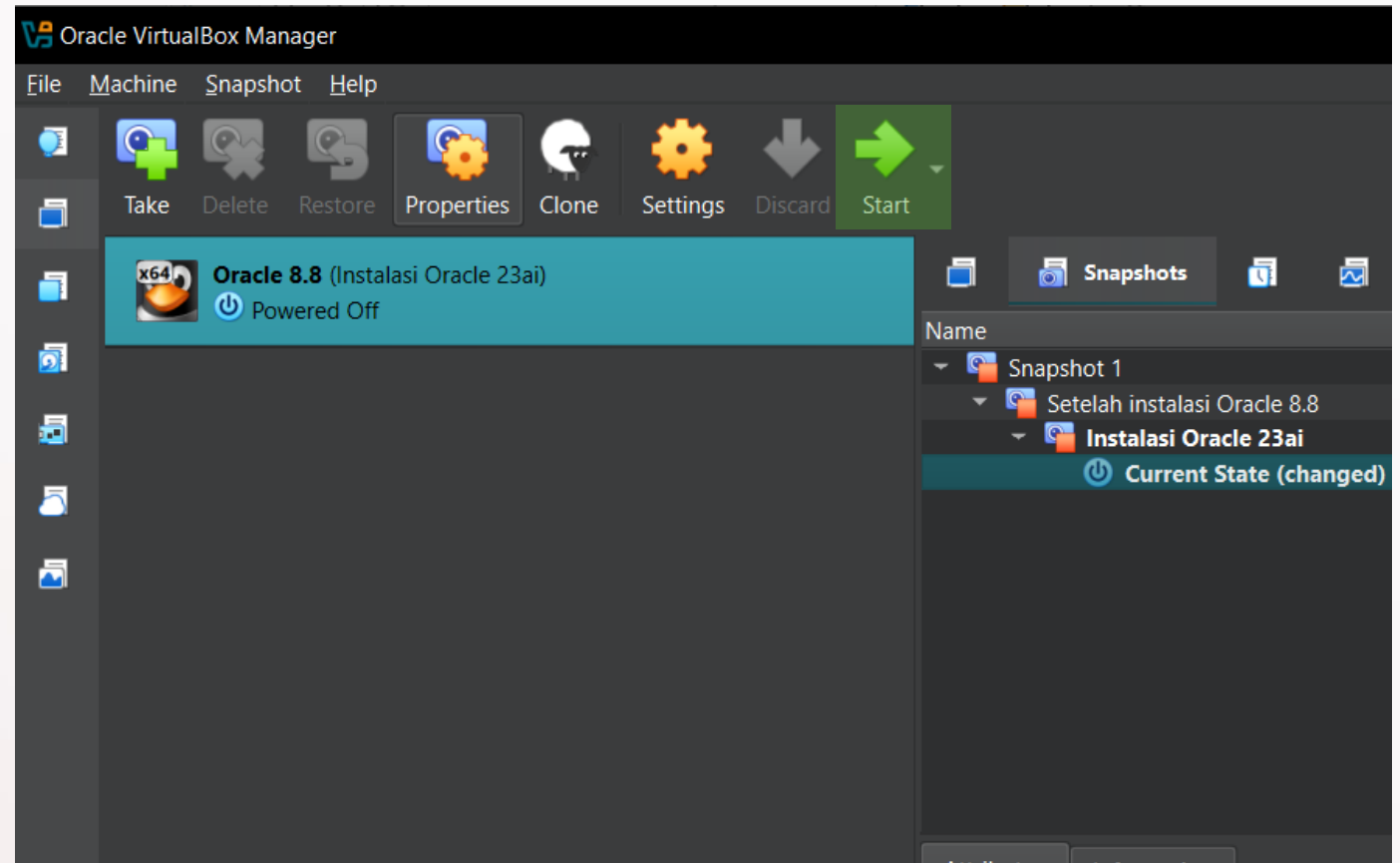# 1.
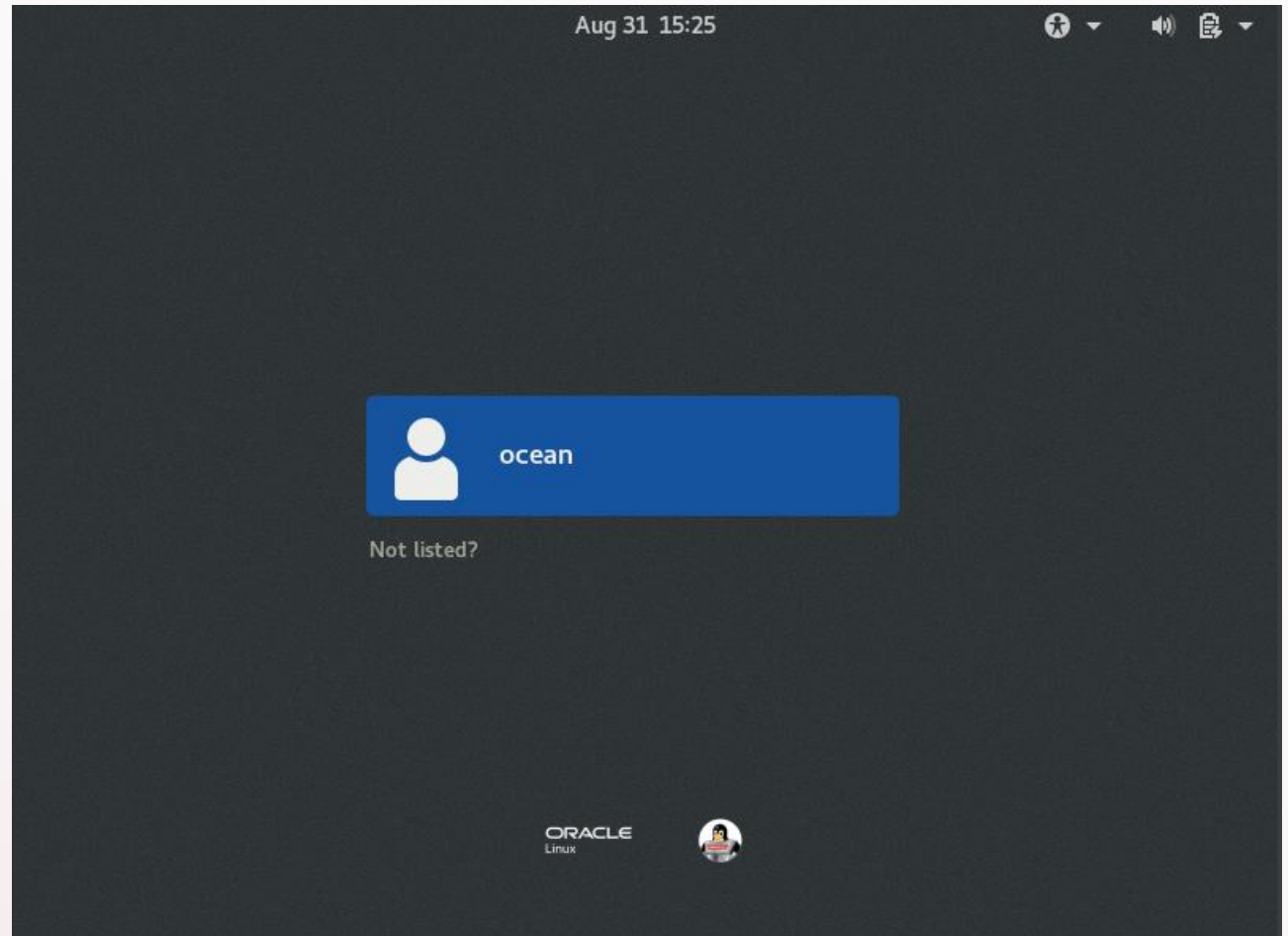Buka Oracle VirtualBox, setelah itu **buka tab Snapshots**

2. Take snapshot sebelum proses instalasi Oracle 23ai dalam Oracle 8.8

3.
Start Virtual Machine nya seperti yang sudah diajarkan sebelumnya

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4. Login ke akun Oracle yang sudah dibuat
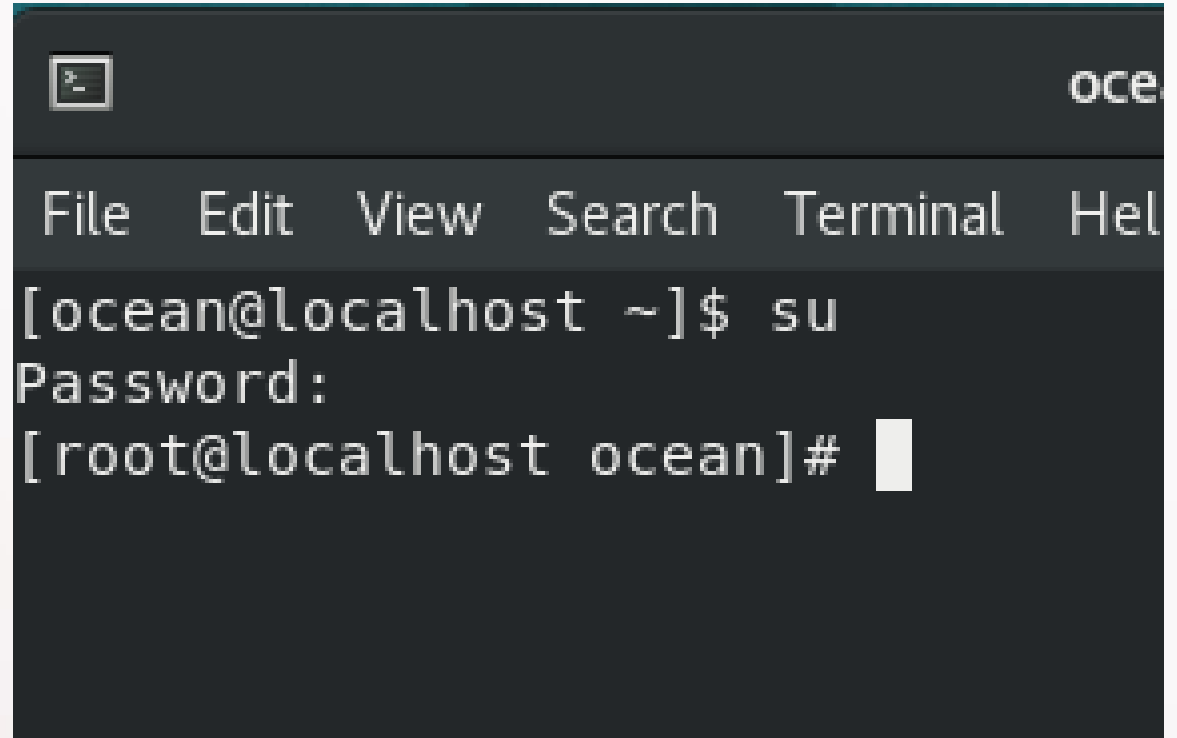
5.
Seperti biasa pastikan bahwa jaringan sudah terkoneksi

6.
Klik Activities >
buka Terminal

7.
Masuk ke Super User* dengan command **su**

*Digunakan agar memiliki akses penuh untuk installasi

8.
Instalasi pre-install **depedency & konfigurasi awal** untuk Oracle 23ai
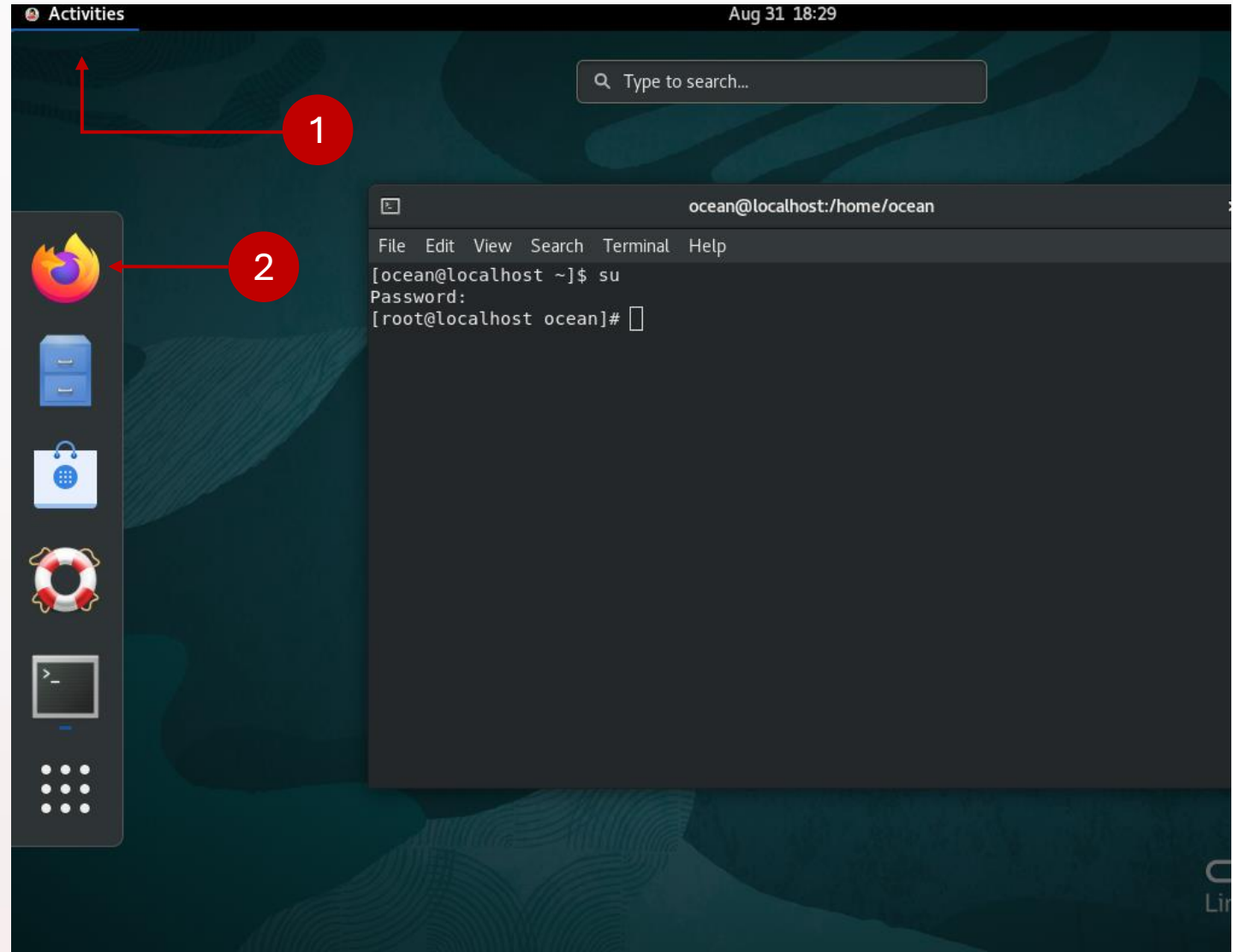
dnf -y install oracle-database-preinstall-23ai

```
[root@localhost ocean]# dnf -y install oracle-database-preinstall-23ai

Last metadata expiration check: 0:42:43 ago on Sun 31 Aug 2025 03:58:08 PM WIB.
Dependencies resolved.
================================================================================
 Package            Arch    Version                       Repository       Size
================================================================================
Installing:
 oracle-database-preinstall-23ai
                    x86_64  1.0-4.el8                      ol8_appstream    31 k
Installing dependencies:
 ksh                x86_64  20120801-267.0.1.el8           ol8_appstream   923 k
 lm_sensors-libs    x86_64  3.4.0-23.20180522git70f7e08.el8 ol8_baseos_latest 59 k
 sysstat            x86_64  11.7.3-13.0.2.el8_10           ol8_appstream   427 k

Transaction Summary
================================================================================
Install  4 Packages
```

```
Installed:
  ksh-20120801-267.0.1.el8.x86_64
  lm_sensors-libs-3.4.0-23.20180522git70f7e08.el8.x86_64
  oracle-database-preinstall-23ai-1.0-4.el8.x86_64
  sysstat-11.7.3-13.0.2.el8_10.x86_64

Complete!
```

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9.
Biarkan saja Terminal nya tetap terbuka > Klik Activities > Buka Firefox

10.
Buka https://www.oracle.com/database/free/get-started/

: pilih yang Oracle Linux 8 (OL8) dan klik Link to download

11.
Activities > Buka Files > Lalu pindah ke Downloads

*Untuk memastikan apakah file berhasil terdownload atau tidak (jadi langkah ini **opsional**)

12.
Change directory dengan command **cd**

```
[root@localhost ocean]# cd /home/ocean/Downloads
[root@localhost Downloads]#
```

13.
Ketik command instalasi Oracle Database 23ai dari paket RPM yang di download

dnf install -y oracle-database-free*

```
[root@localhost Downloads]# dnf install -y oracle-database-free*
Last metadata expiration check: 4:15:31 ago on Sun 31 Aug 2025 03:58:08 PM WIB.
Dependencies resolved.
================================================================================
 Package                    Arch        Version       Repository        Size
================================================================================
Installing:
 oracle-database-free-23ai  x86_64      23.9-1        @commandline      1.3 G

Transaction Summary
================================================================================
Install  1 Package
```

14.
Jalankan command tersebut untuk konfigurasi awal dan masukkan password

/etc/init.d/oracle-free-23ai configure

```
[root@localhost Downloads]# /etc/init.d/oracle-free-23ai configure
Specify a password to be used for database accounts. Oracle recommends that the
password entered should be at least 8 characters in length, contain at least 1 u
ppercase character, 1 lower case character and 1 digit [0-9]. Note that the same
 password will be used for SYS, SYSTEM and PDBADMIN accounts:
Confirm the password:
Configuring Oracle Listener.
Listener configuration succeeded.
Configuring Oracle Database FREE.
Enter SYS user password:
*******
Enter SYSTEM user password:
******
```

```
Executing Post Configuration Actions
93% complete
Running Custom Scripts
100% complete
Database creation complete. For details check the logfiles at:
 /opt/oracle/cfgtoollogs/dbca/FREE.
Database Information:
Global Database Name:FREE
System Identifier(SID):FREE
Look at the log file "/opt/oracle/cfgtoollogs/dbca/FREE/FREE.log" for further de
tails.

Connect to Oracle Database using one of the connect strings:
     Pluggable database: localhost.localdomain/FREEPDB1
     Multitenant container database: localhost.localdomain
[root@localhost Downloads]#
```

15.
Tambahkan konfigurasi, lalu tekan **I** pada keyboard untuk insert

vi /etc/profile

```
# /etc/profile

# System wide environment and startup programs, for login setup
# Functions and aliases go in /etc/bashrc

# It's NOT a good idea to change this file unless you know what you
# are doing. It's much better to create a custom.sh shell script in
# /etc/profile.d/ to make custom changes to your environment, as this
# will prevent the need for merging in future updates.

pathmunge () {
    case ":${PATH}:" in
        *:"$1":*)
            ;;
        *)
            if [ "$2" = "after" ] ; then
                PATH=$PATH:$1
            else
                PATH=$1:$PATH
            fi
    esac
}

"/etc/profile" 85L, 2123C
```

16.
Scroll ke paling bawah dan paste command ini

```
export ORACLE_SID=FREE
export ORACLE_PDB_SID=FREEPDB1
export ORACLE _ASK=NO
. /opt/oracle/product/23ai/dbhomeFree/bin/oraenvi
```

```
unset i
unset -f pathmunge

if [ -n "${BASH_VERSION-}" ] ; then
        if [ -f /etc/bashrc ] ; then
                # Bash login shells run only /etc/profile
                # Bash non-login shells run only /etc/bashrc
                # Check for double sourcing is done in /etc/bashrc.
                . /etc/bashrc
        fi
fi

export ORACLE_SID=FREE
export ORACLE_PDB_SID=FREEPDB1
export ORACLE _ASK=NO
. /opt/oracle/product/23ai/dbhomeFree/bin/oraenvi

-- INSERT --
```

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17.
Jika sudah di paste tekan esc pada keyboard, lalu ketik **:wq**

```
export ORACLE_SID=FREE
export ORACLE_PDB_SID=FREEPDB1
export ORACLE _ASK=NO
. /opt/oracle/product/23ai/dbhomeFree/bin/oraenvi

:wq
```

18.
Masukkan command tersebut untuk mengaktifkan service database otomatis dan set password baru untuk user oracle

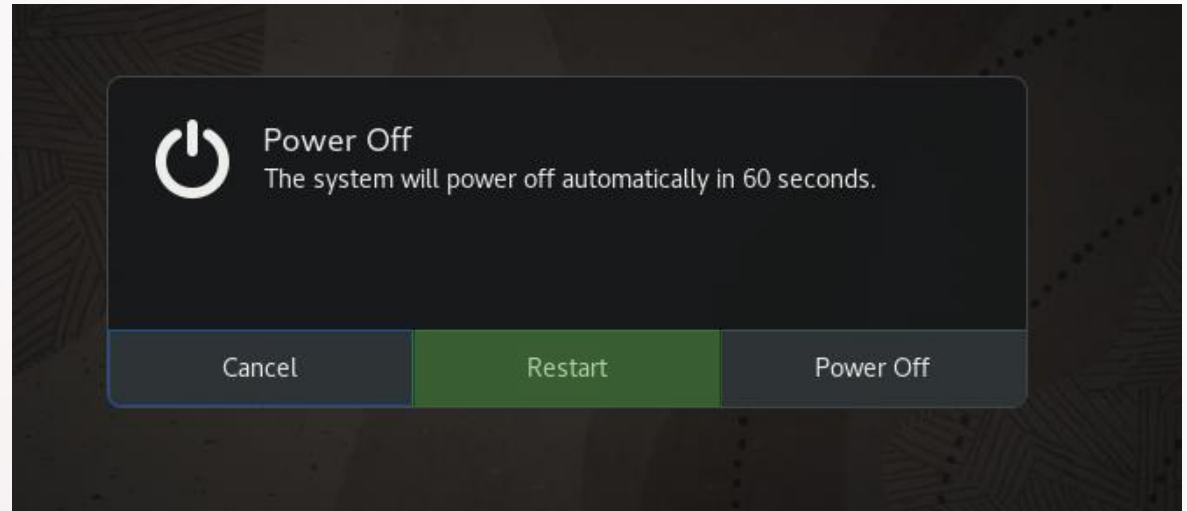/usr/lib/systemd/systemd-sysv-install enable oracle-free-23ai

cd

passwd oracle

```
[root@localhost Downloads]# /usr/lib/systemd/systemd-sysv-install enable oracle-free-23ai
[root@localhost Downloads]# cd
[root@localhost ~]# passwd oracle
Changing password for user oracle.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost ~]#
```
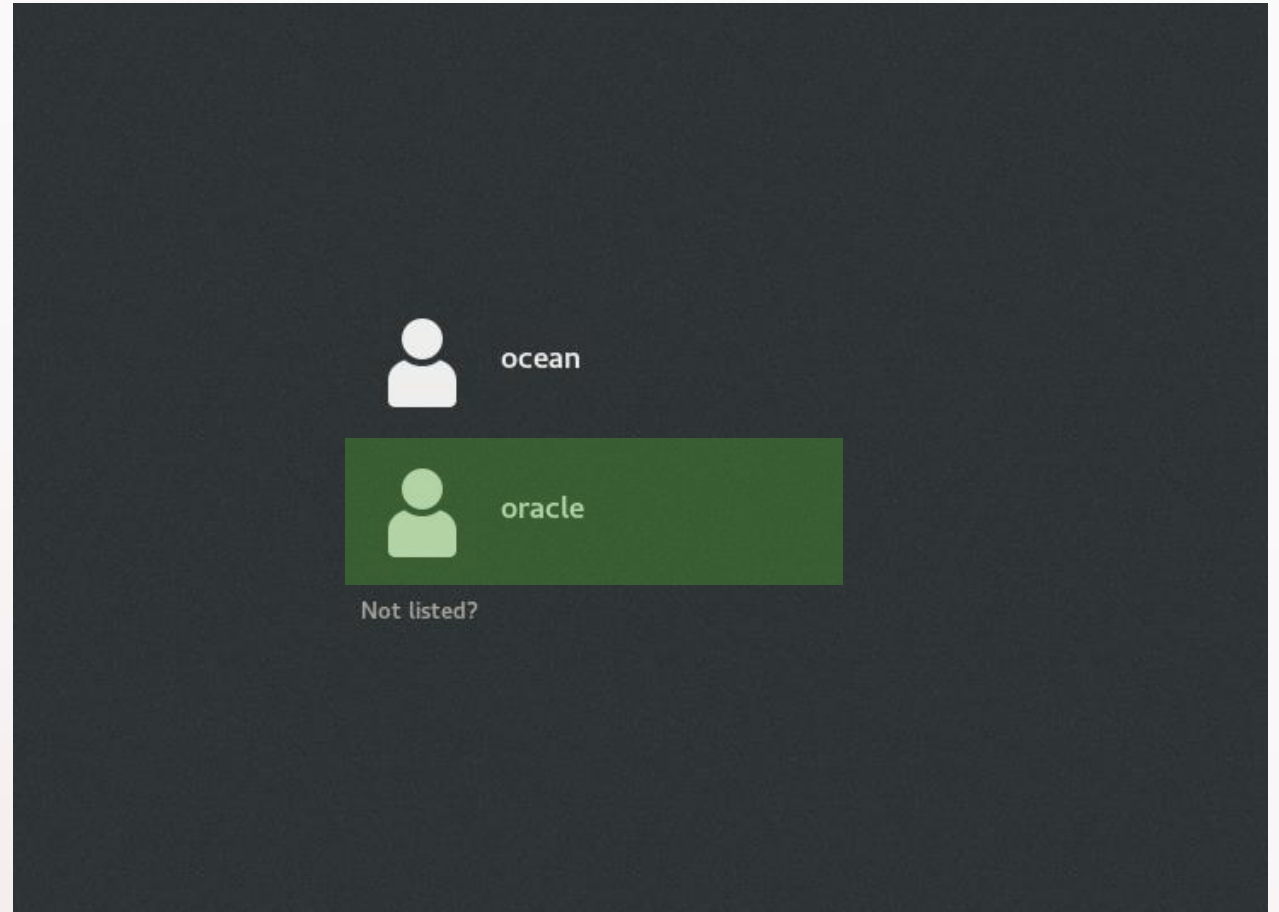
Cara menjalankan Oracle 23ai (switch user ke oracle)
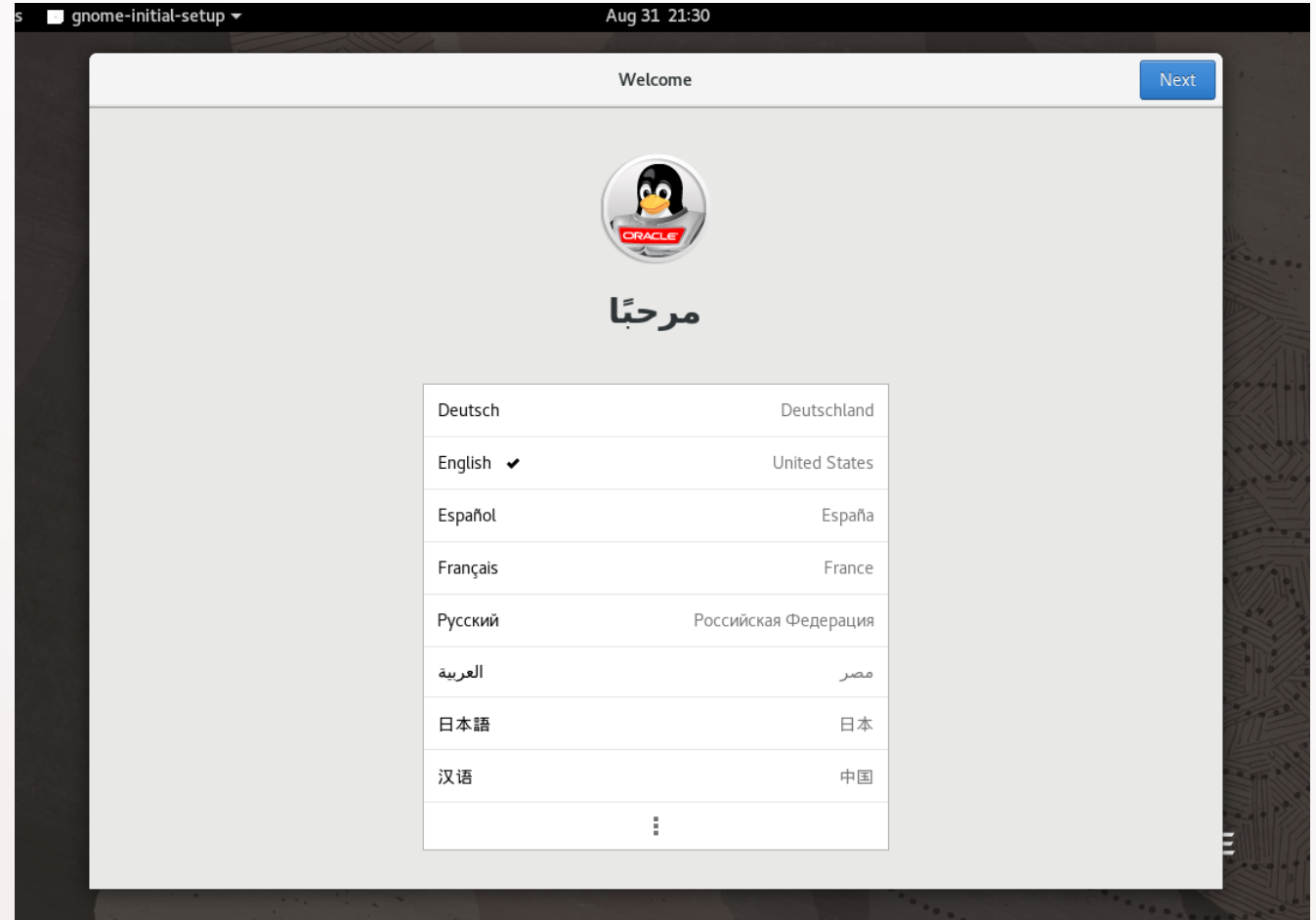
1.
Close terminal > Restart virtual machine

2.
Login ke user oracle lalu **masukkan password** yang sudah dibuat sebelumnya
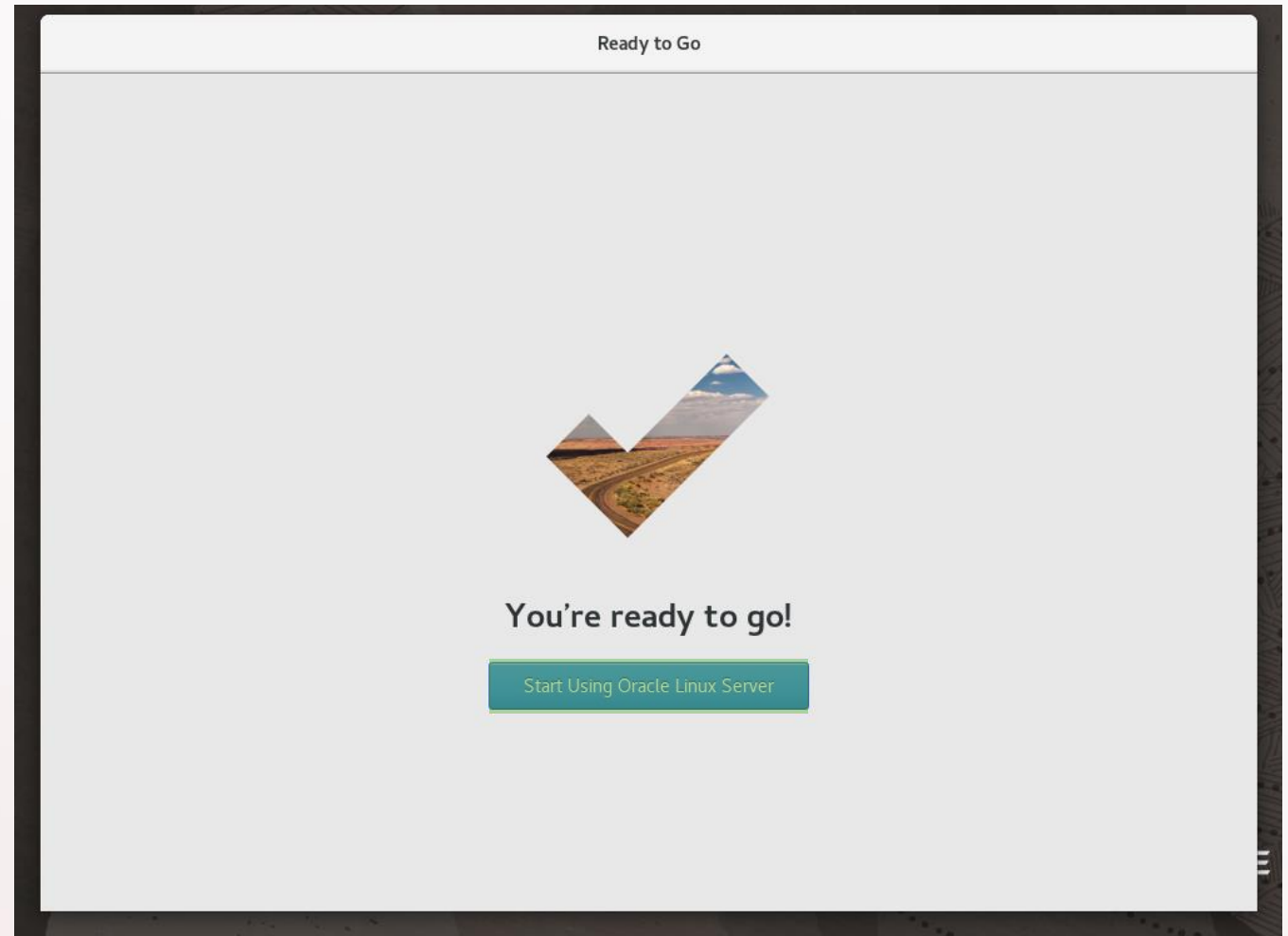
3.
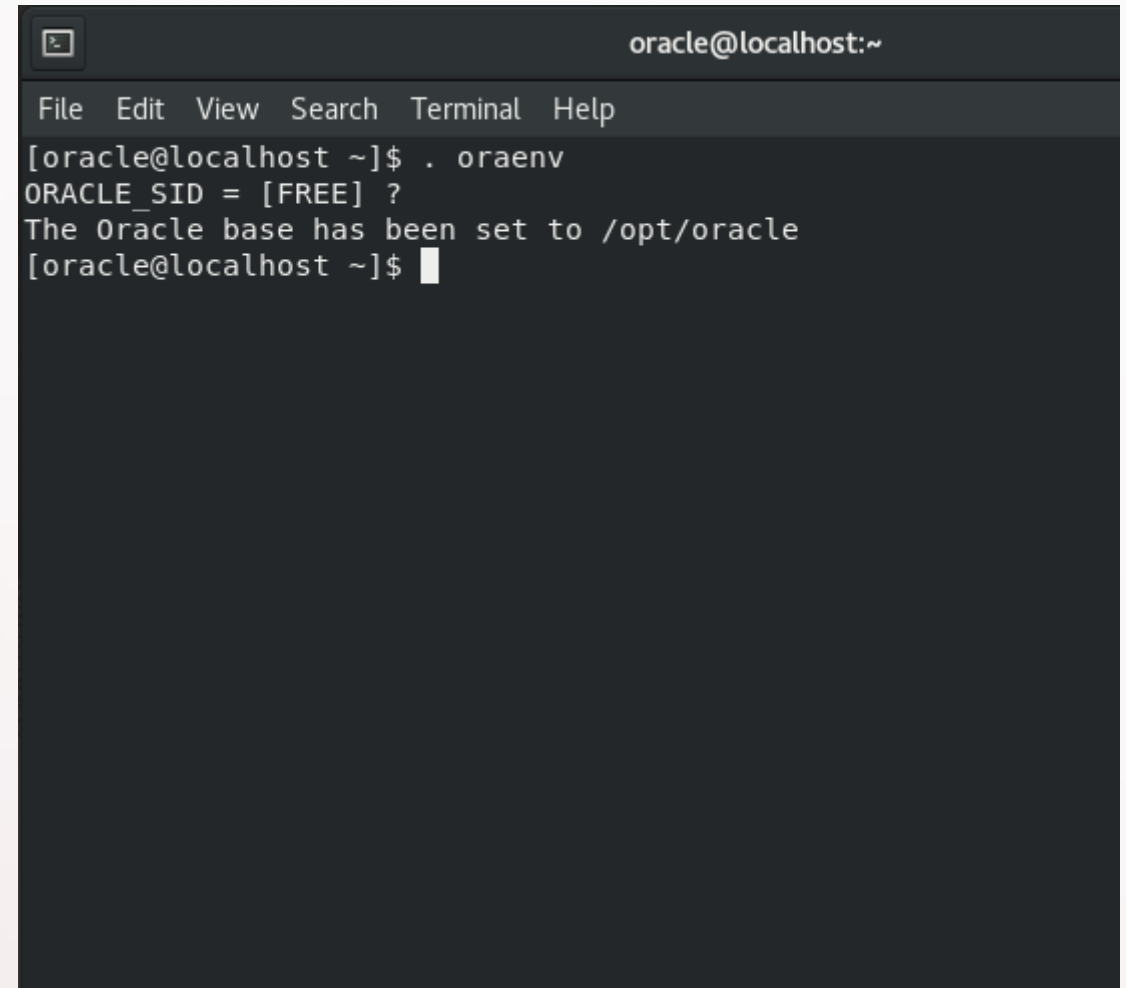Akan muncul quick initial setup, **cukup tekan next** saja

4.
Klik button box
Start Using Oracle Linux Server

5.
Buka Terminal
dan ketik
. oraenv


```
oracle@localhost:~

File  Edit  View  Search  Terminal  Help
[oracle@localhost ~]$ . oraenv
ORACLE_SID = [FREE] ?
The Oracle base has been set to /opt/oracle
[oracle@localhost ~]$ █
```

6.

Setelah berhasil di set environment oraclenya, ketik **sqlplus**, **sys as sysdba** sebagai username dan masukkan **password Anda**

sqlplus

sys as sysdba

```
SQL*Plus: Release 23.0.0.0.0 - Production on Sun Aug 31 22:19:21 2025
Version 23.9.0.25.07

Copyright (c) 1982, 2025, Oracle.  All rights reserved.

Enter user-name: sys as sysdba
Enter password:

Connected to:
Oracle Database 23ai Free Release 23.0.0.0.0 - Develop, Learn, and Run for Free
Version 23.9.0.25.07

SQL>
```

7.

• startup

Digunakan untuk **menyalakan (start)** database Oracle.

• show con_name

Menampilkan **nama container** yang sedang aktif (berguna pada arsitektur multitenant, CDB/PDB).

• shutdown

Digunakan untuk **mematikan (stop)** database Oracle.