

Requirements

To carry out the tasks described in this tutorial, you need a 64-bit virtual machine in Virtual Box or Vmware.

Step 1: Download openEuler

1. Go to the following page: <https://www.openeuler.org/en/download/>
2. Select Architecture "x86_64"
3. Select Scenario "Server"
4. And choose the option Offline Everything ISO to download

openEuler 22.03 LTS SP2

openEuler openEuler 22.03 LTS SP2 is the patch version of openEuler 22.03 LTS, and both versions have the same lifecycle.

Planned EOL: 2024/03

[Release Notes](#) | [Installation Guide](#) | [White Paper](#) | [Lifecycle](#)

Architecture

x86_64

AArch64

ARM32

Scenario

Server

Edge Cloud

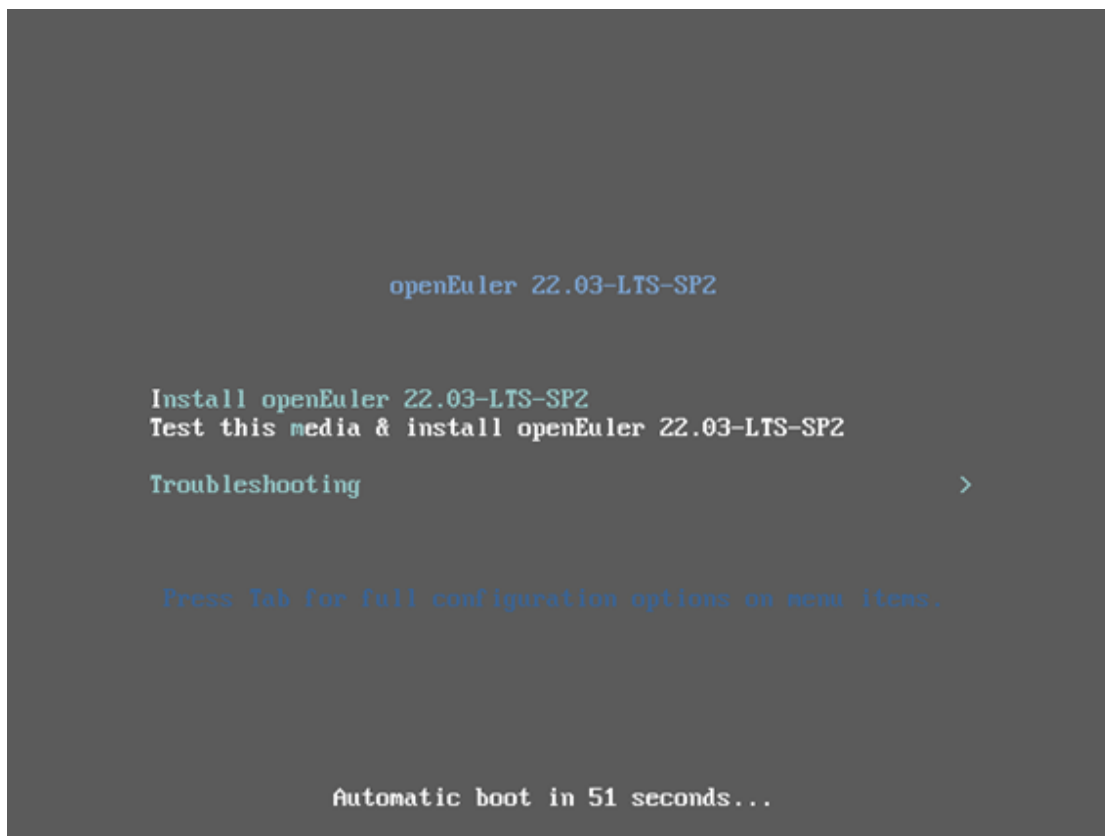
Cloud Computing

Embedded

Type	Size	Mirror Site		Integrity Check	Download
Offline Standard ISO ⓘ	3.5 GiB	AGDSN (10000Mb/s)	▼	SHA256 ⓘ	Download ↴
Offline Everything ISO ⓘ	16.9 GiB	AGDSN (10000Mb/s)	▼	SHA256 ⓘ	Download ↴
Network Install ISO	738.0 MiB	AGDSN (10000Mb/s)	▼	SHA256 ⓘ	Download ↴

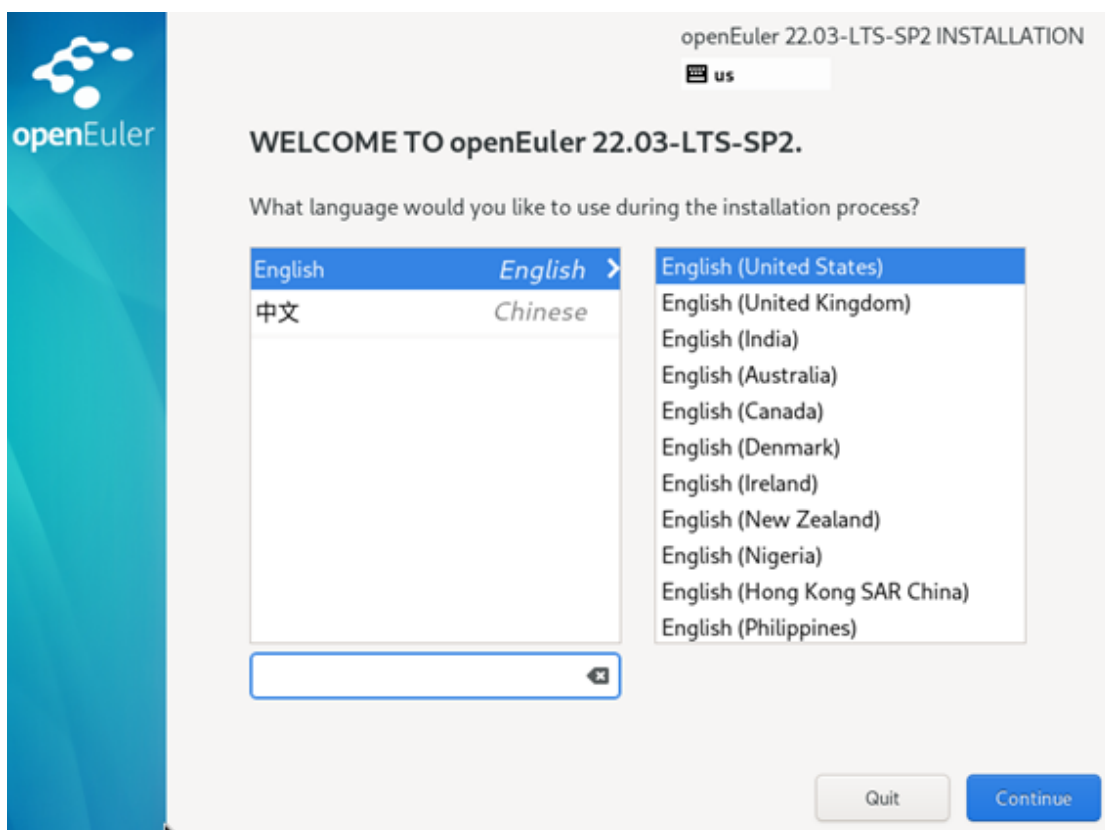
Step 2: Installing openEuler

- 1 . OpenVirtualBox or VmWare and start your created virtual machine, don't forget to load the ISO just downloaded before.
You should get an screen like the below

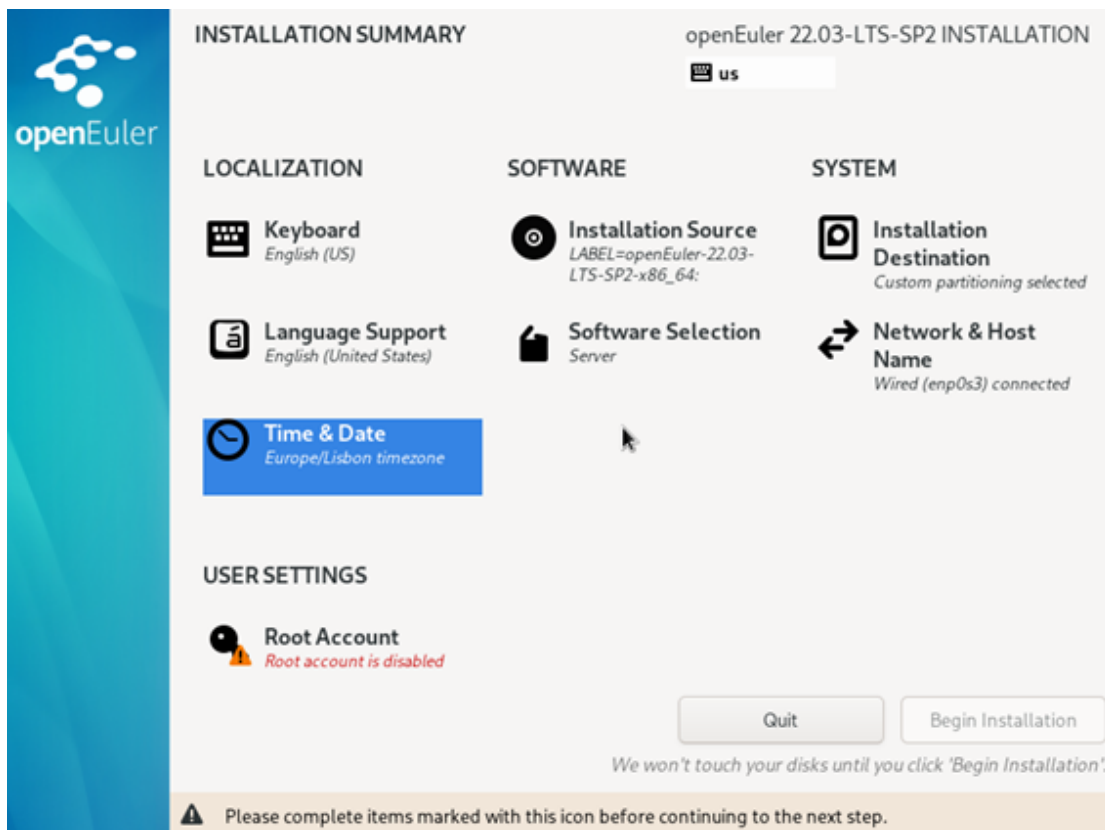


2 . Use the "arrow keys" on your keyboard to select the "Install openEuler 22.03-LTS-SP2" option, then press "Enter".

3. Change the language to be used in the installation process. If you wish, consider the default values and click the "Continue" button.

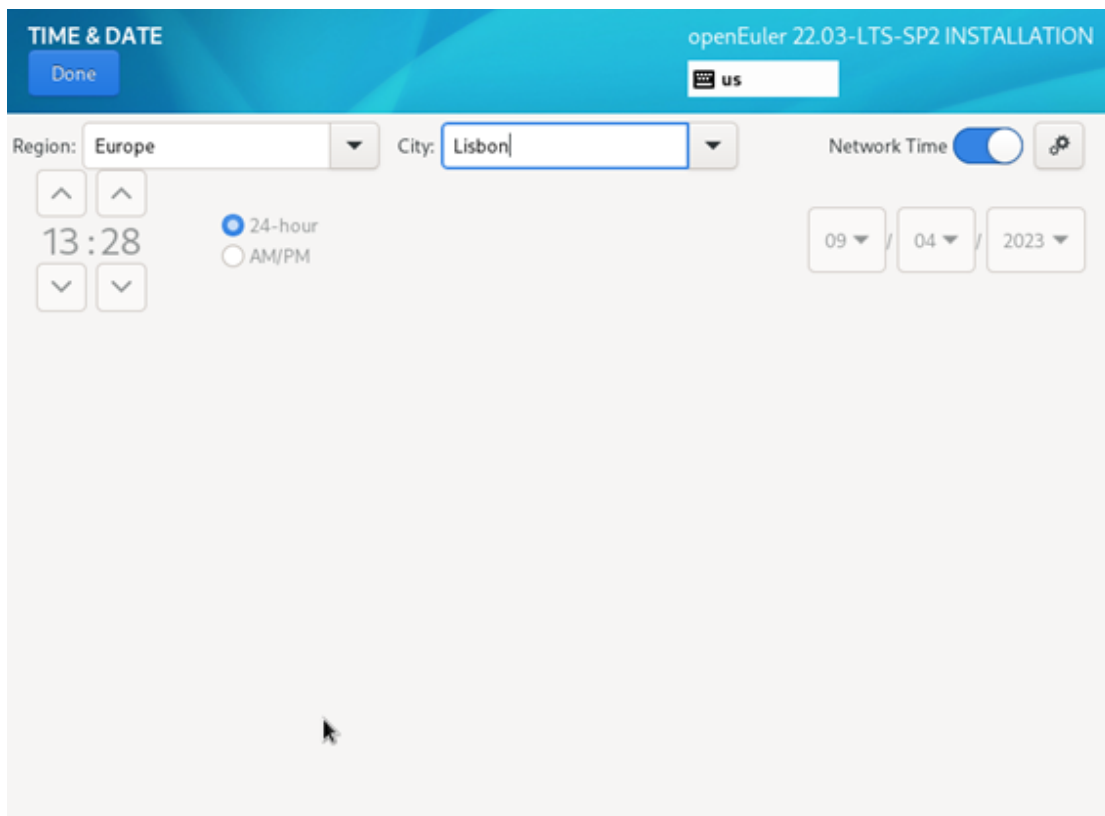


4. After that you should get an screen like the image below.

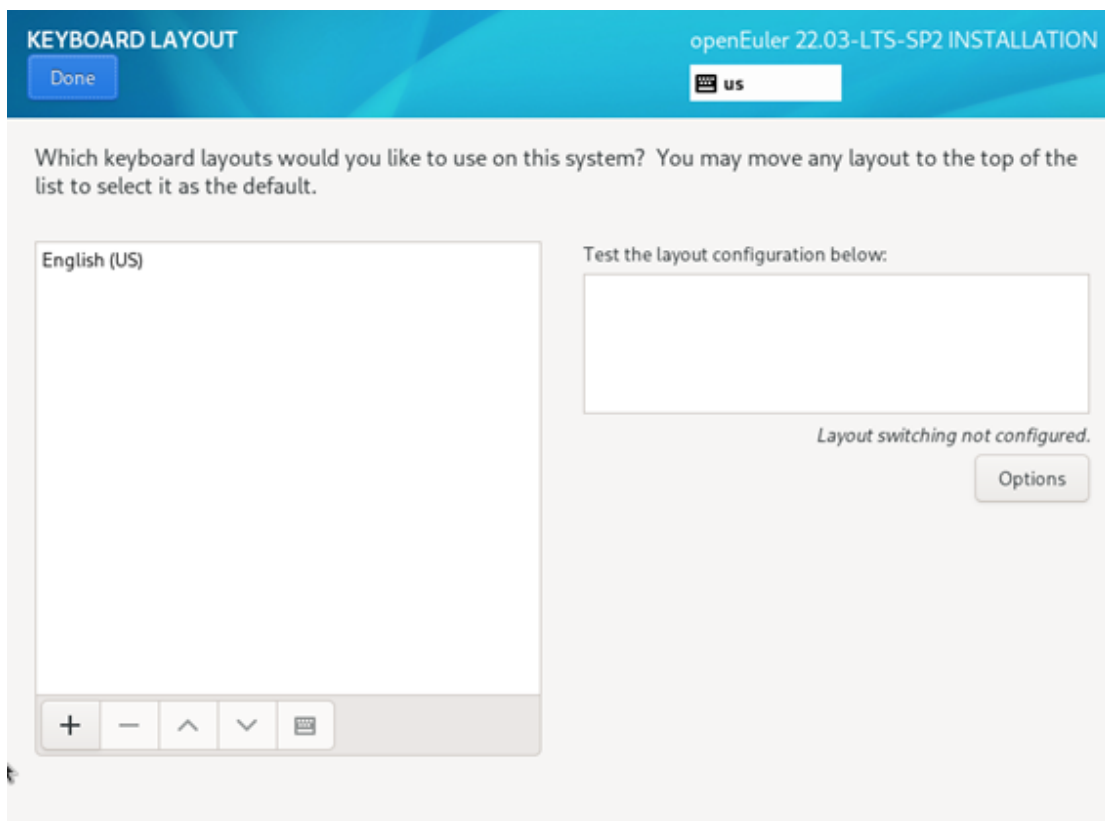


5. The image below shows the following configuration, if necessary change it to the desired one (continued below):

Date & Time: <Choose your location date and time>

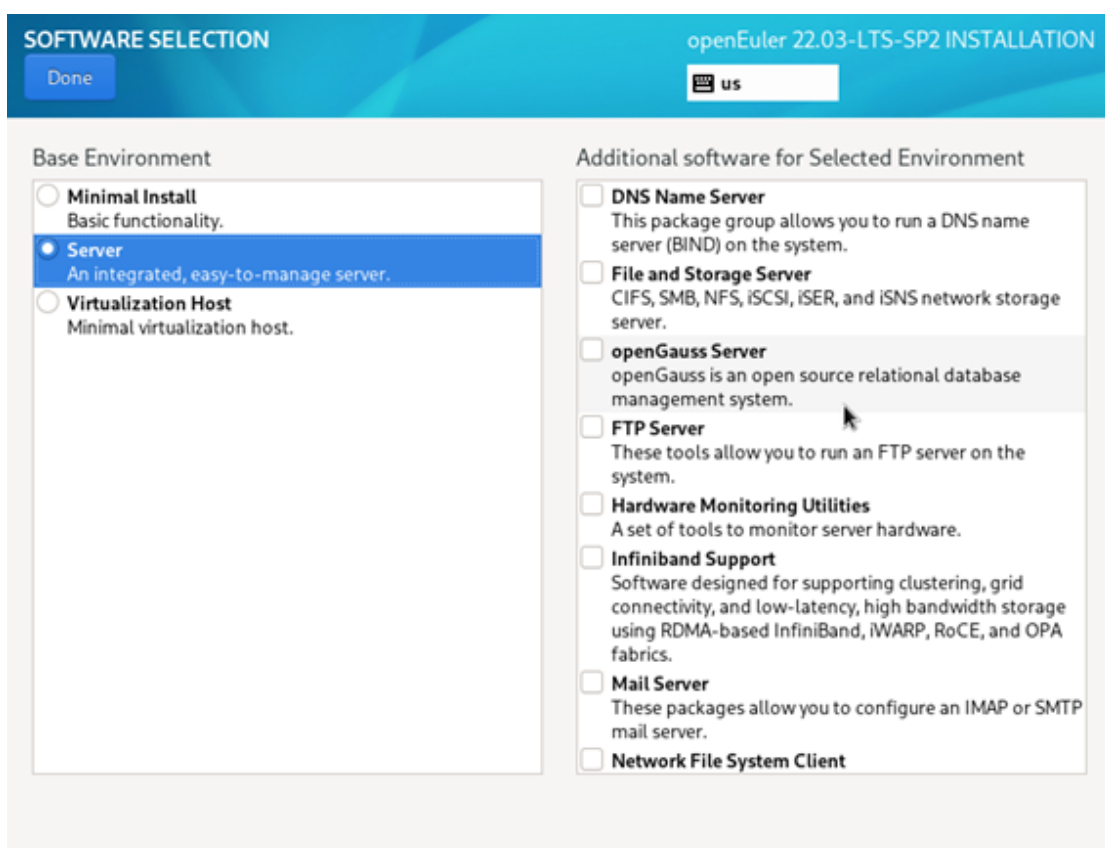


Keyboard: <Chosse you keyboard layout>



Language support: English (United States)
Installation Source: keep the default settings

6 . Click on the Software Selection menu, consider the settings below and click on the "Done" button.



I've selected only the Server Base Environment because I don't want to install anything yet. I just want a clean installation of my server.

7 . Click on the Installation Destination menu, and select the "Custom" on Storage Configuration

INSTALLATION DESTINATION openEuler 22.03-LTS-SP2 INSTALLATION

Done us

Device Selection
Select the device(s) you'd like to install to. They will be left untouched until you click on the main menu's "Begin Installation" button.

Local Standard Disks

20 GiB

ATA VBOX HARDDISK
sda / 20 GiB free

Disks left unselected here will not be touched.

Specialized & Network Disks

Add a disk...

Disks left unselected here will not be touched.

Storage Configuration
☒ Automatic ☐ Custom
☐ I would like to make additional space available.

[Full disk summary and boot loader...](#)

1 disk selected; 20 GiB capacity; 20 GiB free [Refresh...](#)

After selecting "Done" you will get the screen to manually configure your partitions. I've created them automatically so I get the following configuration.

MANUAL PARTITIONING
openEuler 22.03-LTS-SP2 INSTALLATION
Done
us

New openEuler 22.03-LTS-SP2 Installation
SYSTEM
/
openeuler-root
17 GiB
/boot
sda1
1024 MiB
swap
openeuler-swap
2 GiB

+
-
↺

AVAILABLE SPACE
1023 KiB
TOTAL SPACE
20 GiB

1 storage device selected

openeuler-root
Mount Point:
/
Device(s):
ATA VBOX HARDDISK (sda)
Desired Capacity:
17 GiB
Device Type:
LVM
File System:
ext4
Volume Group:
openeuler
Name:
root

Discard All Changes

If you are ok with your partitions you can select "Done", and you will get the following screen to Accept Changes.

MANUAL PARTITIONING
openEuler 22.03-LTS-SP2 INSTALLATION
Done
us

New openEuler 22.03-LTS-SP2 Installation
openeuler-root

SUMMARY OF CHANGES

Your customizations will result in the following changes taking effect after you return to the main menu and begin installation:


Order	Action	Type	Device	Mount point
1	destroy format	Unknown	ATA VBOX HARDDISK (sda)	
2	create format	partition table (MSDOS)	ATA VBOX HARDDISK (sda)	
3	create device	partition	sda1 on ATA VBOX HARDDISK	/boot
4	create device	partition	sda2 on ATA VBOX HARDDISK	
5	create format	physical volume (LVM)	sda2 on ATA VBOX HARDDISK	
6	create device	lvmvg	openeuler	
7	create device	lvm lv	openeuler-root	/
8	create format	ext4	openeuler-root	/
9	create device	lvm lv	openeuler-swap	
10	create format	swap	openeuler-swap	
11	create format	ext4	sda1 on ATA VBOX HARDDISK	/boot

Cancel & Return to Custom Partitioning
Accept Changes

1 storage device selected
Discard All Changes

8 . On the main screen click on the Network & Host name menu, consider the settings below and click on the "Done" button.

CREATE USER openEuler 22.03-LTS-SP2 INSTALLATION


Done 

Full name


User name

☒ Add administrative privileges to this user account (wheel group membership)

☒ Require a password to use this account

Password 


Good


Confirm password 








☐ Use SM3 to encrypt the password

Advanced...


11 . Click on the "Begin Installation" button after applying all the settings mentioned above.


 **INSTALLATION SUMMARY** openEuler 22.03-LTS-SP2 INSTALLATION



LOCALIZATION	SOFTWARE	SYSTEM
 Keyboard English (US)	 Installation Source LABEL=openEuler-22.03-LTS-SP2-x86_64:	 Installation Destination Custom partitioning selected
 Language Support English (United States)	 Software Selection Server	 Network & Host Name Wired (enp0s3) connected
 Time & Date Europe/Lisbon timezone		

USER SETTINGS

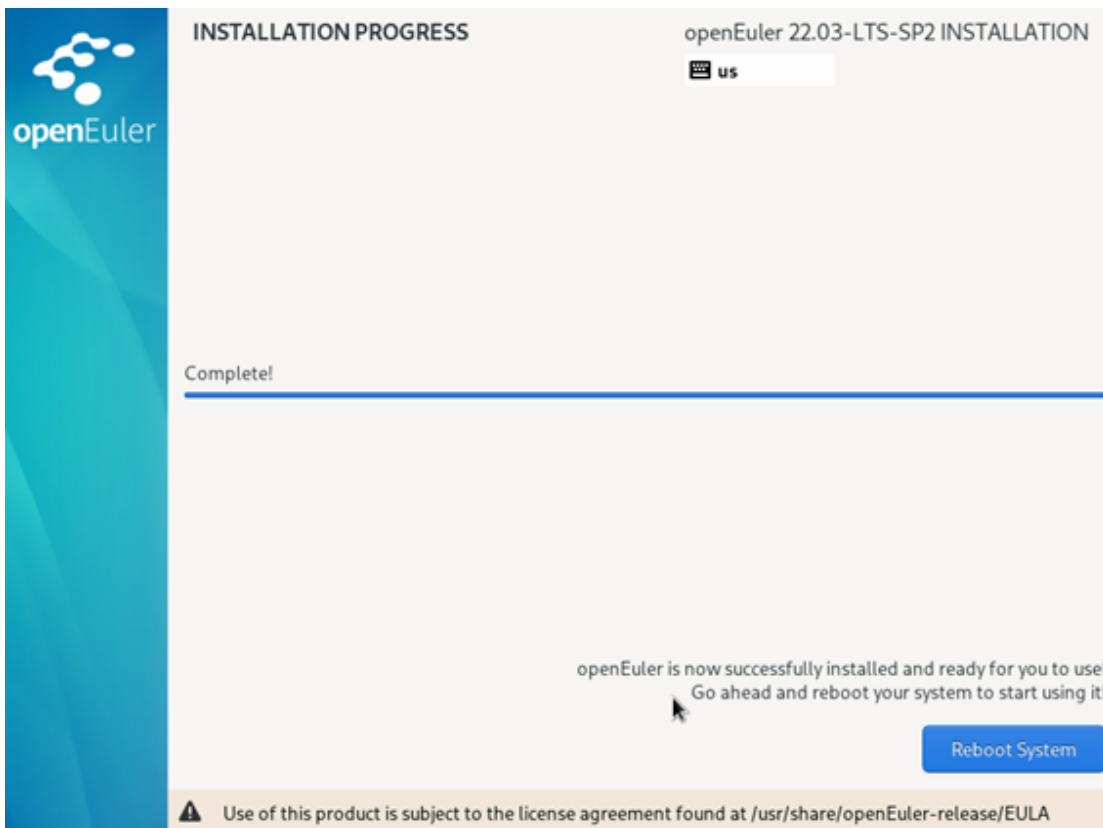
 **Root Account**
Root password is set

 **User Creation**
Administrator labuser01 will be created

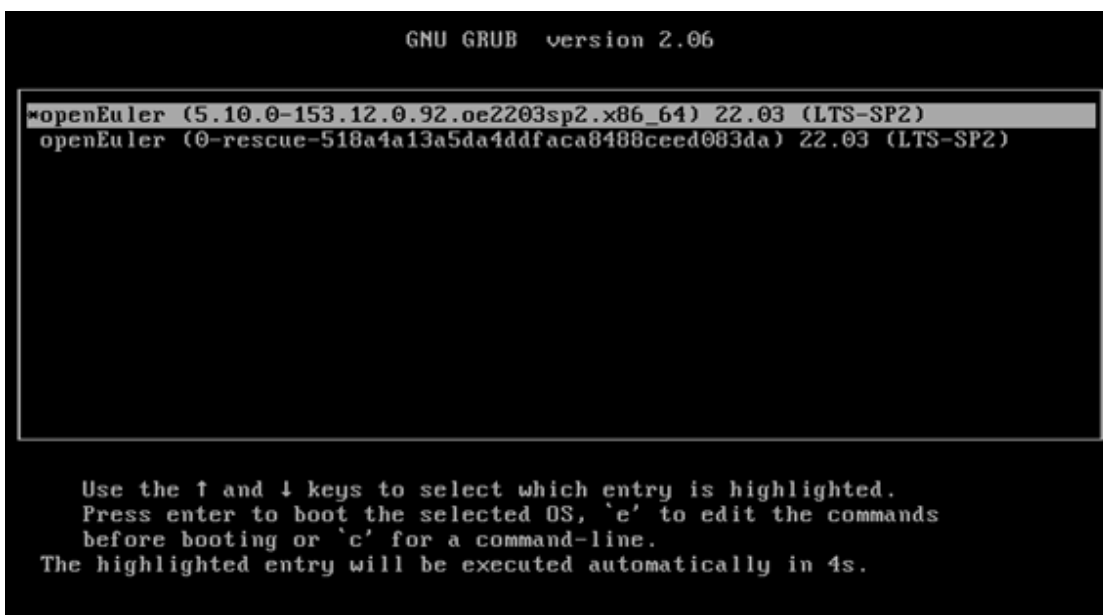
Quit **Begin Installation**

We won't touch your disks until you click 'Begin Installation'.

12 . At the end of the installation process click on the "Reboot" button.



13 . When you start the virtual machine, you will see the grub menu where you can choose the kernel you want to boot.



14 . After the OS boot, enter the user/password you want to connect to.

```
localhost login
localhost login: labuser01
Password:

Authorized users only. All activities may be monitored and reported.

Welcome to 5.10.0-153.12.0.92.el2283sp2.x86_64

System information as of time: Mon Sep  4 01:43:46 PM WEST 2023

System load:    0.01
Processes:      98
Memory used:    9.7%
Swap used:      0%
Usage on:       13%
IP address:     10.10.20.236
Users online:   1
To run a command as administrator(user "root"),use "sudo <command>".
(labuser01@localhost ~)$ su -
Password:

Welcome to 5.10.0-153.12.0.92.el2283sp2.x86_64

System information as of time: Mon Sep  4 01:44:04 PM WEST 2023

System load:    0.58
Processes:      100
Memory used:    9.9%
Swap used:      0%
Usage on:       13%
IP address:     10.10.20.236
Users online:   1

[root@localhost ~]#
```

To finish the installation

Now that you are connected to your server you should update it to get all last package version. For that just type the following command with root privileges.

```
dnf update
```

And you will see your OS updating.

```

libtiff                x86_64      4.3.0-31.oe2203sp2      update      176 k
libtiff-devel          x86_64      4.3.0-31.oe2203sp2      update      32 k
libwbclient            x86_64      4.17.5-7.oe2203sp2      update      36 k
ncurses                x86_64      6.3-12.oe2203sp2        update      679 k
ncurses-base          noarch      6.3-12.oe2203sp2        update      54 k
ncurses-libs           x86_64      6.3-12.oe2203sp2        update      286 k
openssh                x86_64      8.0p1-21.oe2203sp2      update      317 k
openssh-clients        x86_64      8.0p1-21.oe2203sp2      update      634 k
openssh-server         x86_64      8.0p1-21.oe2203sp2      update      396 k
openssl                x86_64      1:1.1.1m-22.oe2203sp2   update      445 k
openssl-devel          x86_64      1:1.1.1m-22.oe2203sp2   update      1.8 M
openssl-libs           x86_64      1:1.1.1m-22.oe2203sp2   update      1.4 M
pcre2                  x86_64      10.39-9.oe2203sp2       update      597 k
pcre2-devel            x86_64      10.39-9.oe2203sp2       update      504 k
perl                   x86_64      4:5.34.0-9.oe2203sp2    update      3.2 M
perl-devel             x86_64      4:5.34.0-9.oe2203sp2    update      2.1 M
perl-libs              x86_64      4:5.34.0-9.oe2203sp2    update      1.7 M
procps-ng              x86_64      4.0.2-10.oe2203sp2      update      237 k
python3                x86_64      3.9.9-25.oe2203sp2      update      8.0 M
python3-dnf            noarch      4.14.0-15.oe2203sp2     update      444 k
python3-perf           x86_64      5.10.0-153.25.0.101.oe2203sp2 update      866 k
samba-client-libs      x86_64      4.17.5-7.oe2203sp2      update      4.8 M
samba-common           x86_64      4.17.5-7.oe2203sp2      update      95 k
sqlite                 x86_64      3.37.2-6.oe2203sp2      update      1.2 M
yum                    noarch      4.14.0-15.oe2203sp2     update      9.4 k
Installing group/module packages:
kernel                 x86_64      5.10.0-153.25.0.101.oe2203sp2 update      56 M
Installing dependencies:
grub2-tools-efi        x86_64      1:2.06-33.oe2203sp2     update      427 k

Transaction Summary
=====
Install  2 Packages
Upgrade  49 Packages

Total download size: 120 M
Is this ok [y/N]:

```

Note: If you want to access your server with ssh, remember to check if the ssh services are running. For that just run the following command as root:

```
systemctl status sshd
```

```

[root@localhost labuser01]# systemctl status sshd
■ sshd.service - OpenSSH server daemon
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2023-09-04 22:38:41 WEST; 29s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
  Main PID: 909 (sshd)
    Tasks: 1 (limit: 9128)
   Memory: 1.0M
    CGroup: /system.slice/ssh.service
            └─ 909 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Sep 04 22:38:41 localhost systemd[1]: Starting OpenSSH server daemon...
Sep 04 22:38:41 localhost sshd[909]: Server listening on 0.0.0.0 port 22.
Sep 04 22:38:41 localhost sshd[909]: Server listening on :: port 22.
Sep 04 22:38:41 localhost systemd[1]: Started OpenSSH server daemon.
[root@localhost labuser01]#

```

If it is not running just type:

```
systemctl start sshd
```

and for the service to automatically start on OS boot type:

```
systemctl enable sshd
```

Well, that concludes installing openEuler 22.03 LTS SP2 OS server.