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TECHNOLOGY

Ubuntu

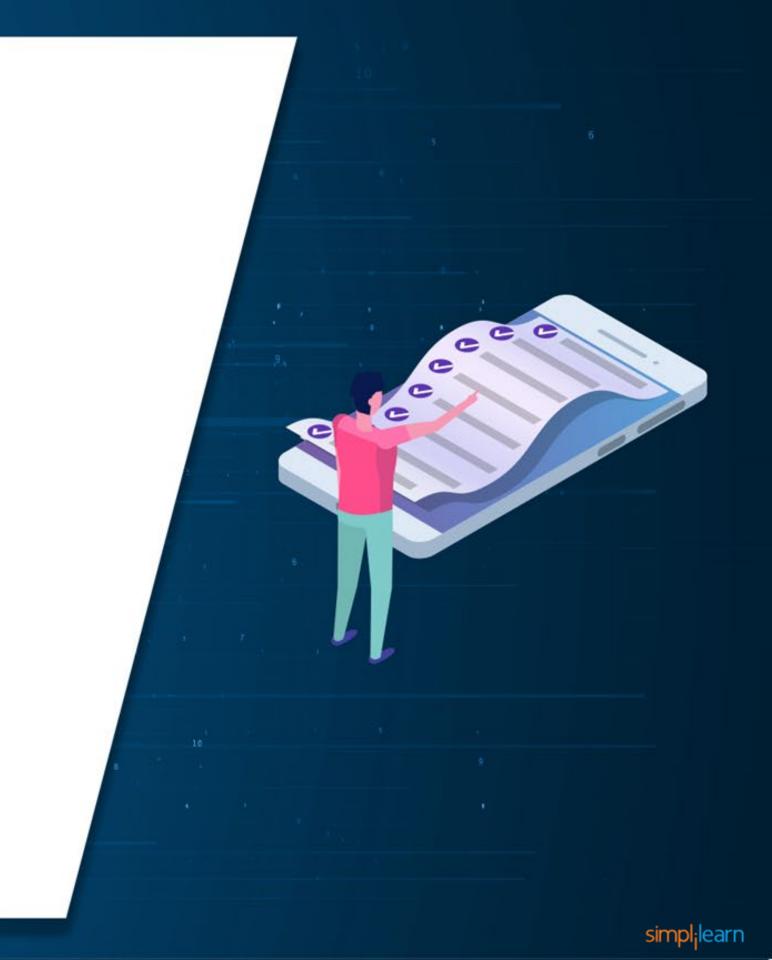


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Learning Objectives

By the end of this lesson, you will be able to:

- Install Ubuntu Desktop
- Log in to your Ubuntu account
- Identify the kernel version



Ubuntu Distribution

Ubuntu and its distributions are always free.



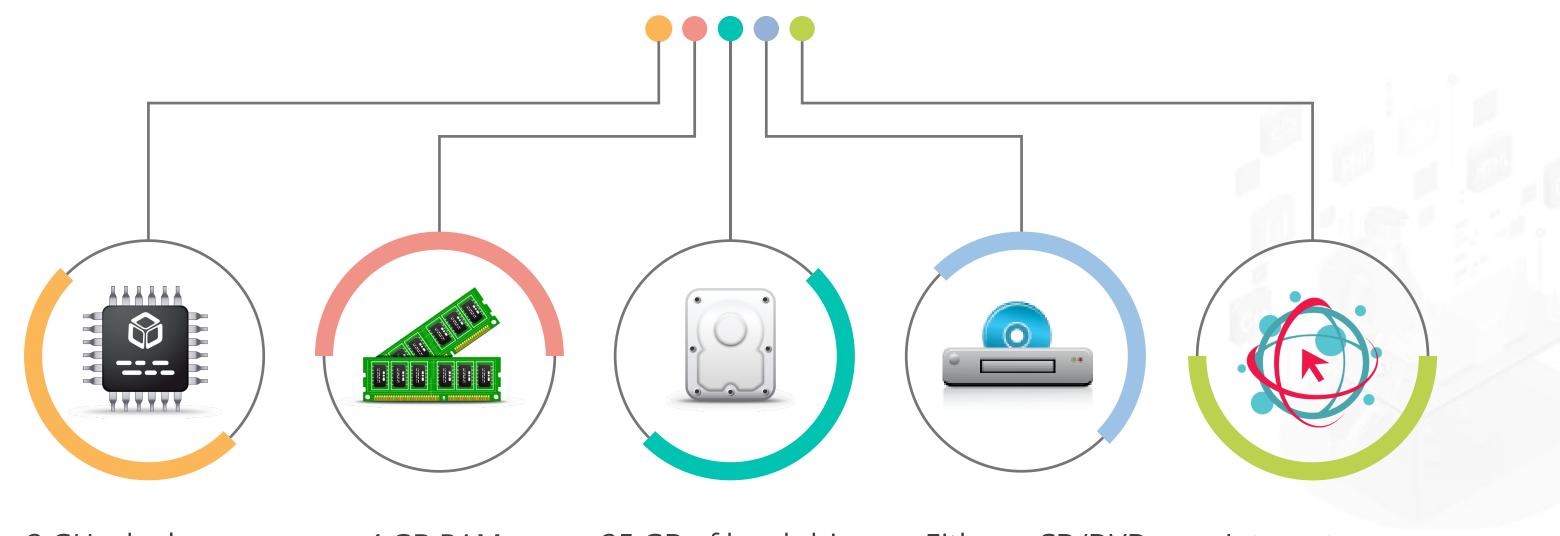
Every two years, an Ubuntu Long Term Support (LTS) is released.

All the distributions of Ubuntu are sponsored by the Canonical.

For help, the technical support community is accessed.



Minimum hardware requirements:



2 GHz dual-core processor

4 GB RAM

25 GB of hard-drive space

Either a CD/DVD drive or a USB port for the installer media

Internet access

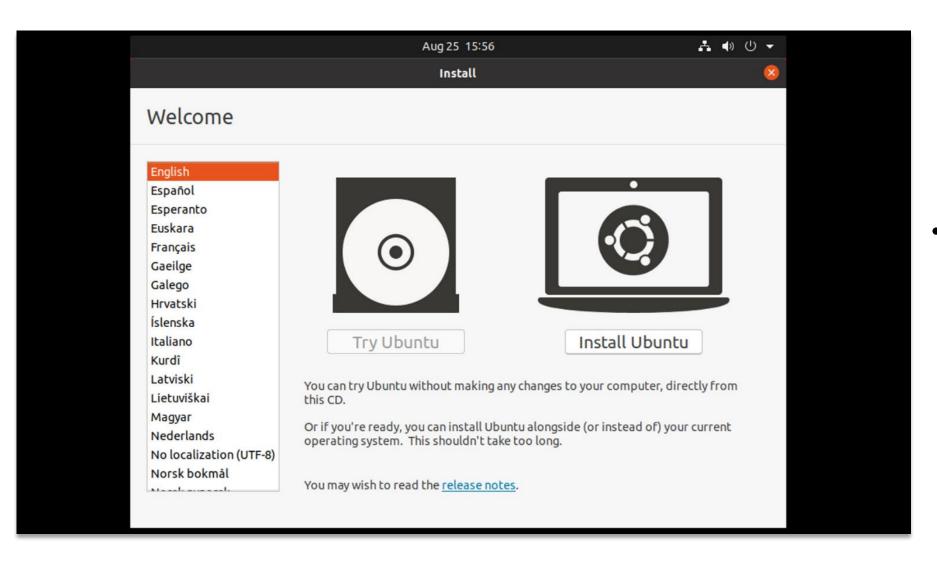


Ubuntu can be installed by two methods:



CD/DVD

- Insert the Ubuntu
 DVD into your
 optical or DVD
 drive and follow
 the steps
- Restart your computer

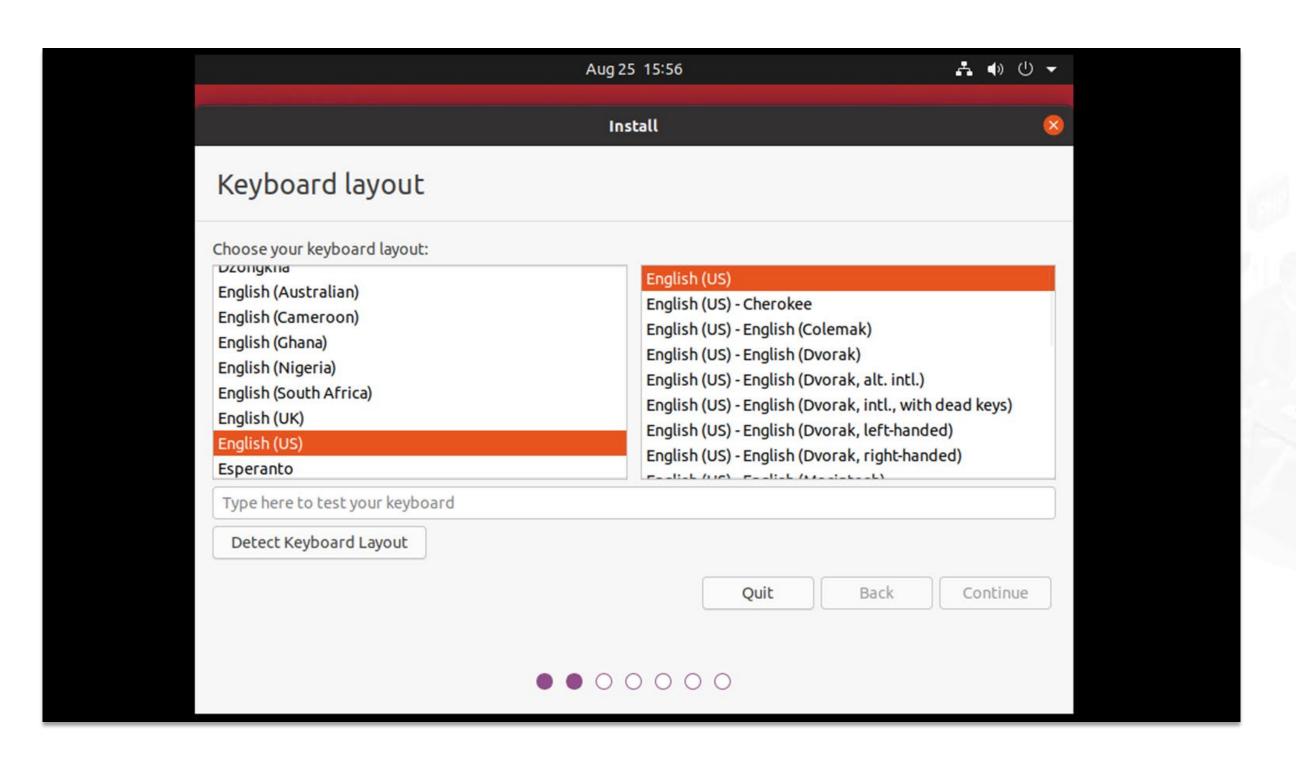




 Most computers will automatically boot from the USB. Simply insert the USB flash drive and either start or restart your computer.

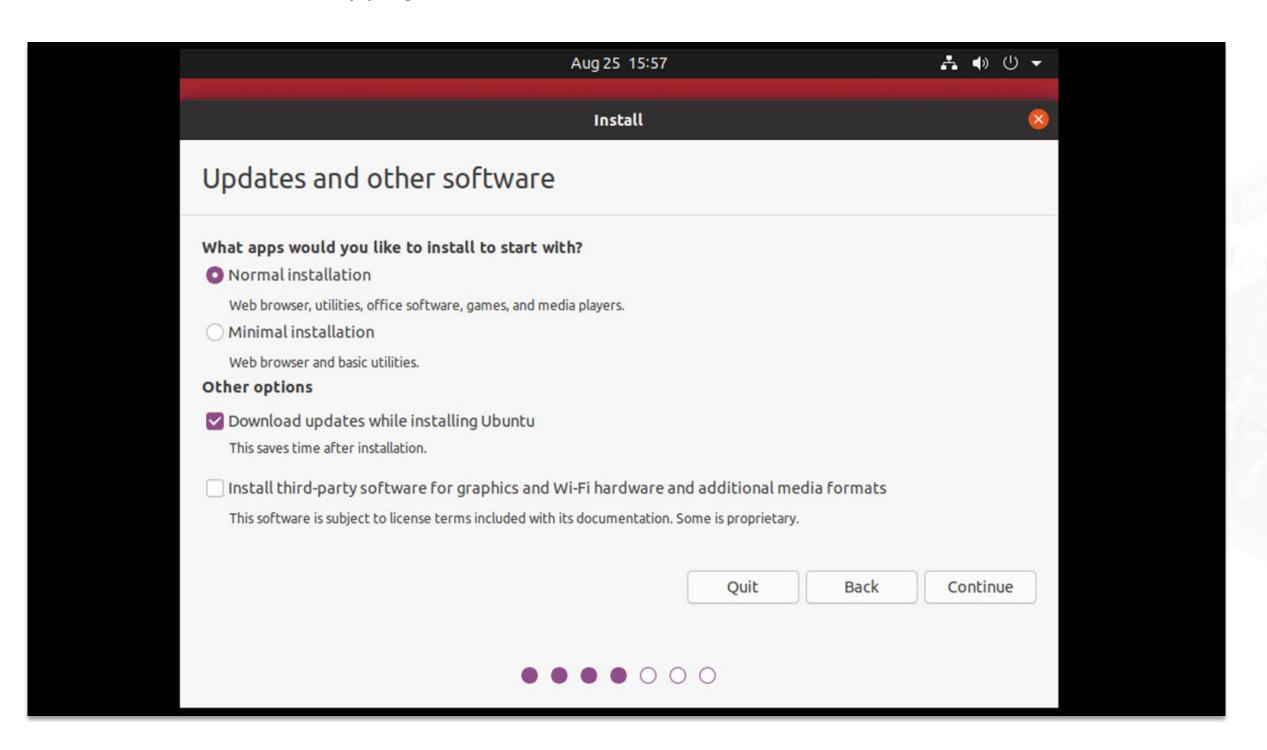


Choose your **keyboard** layout



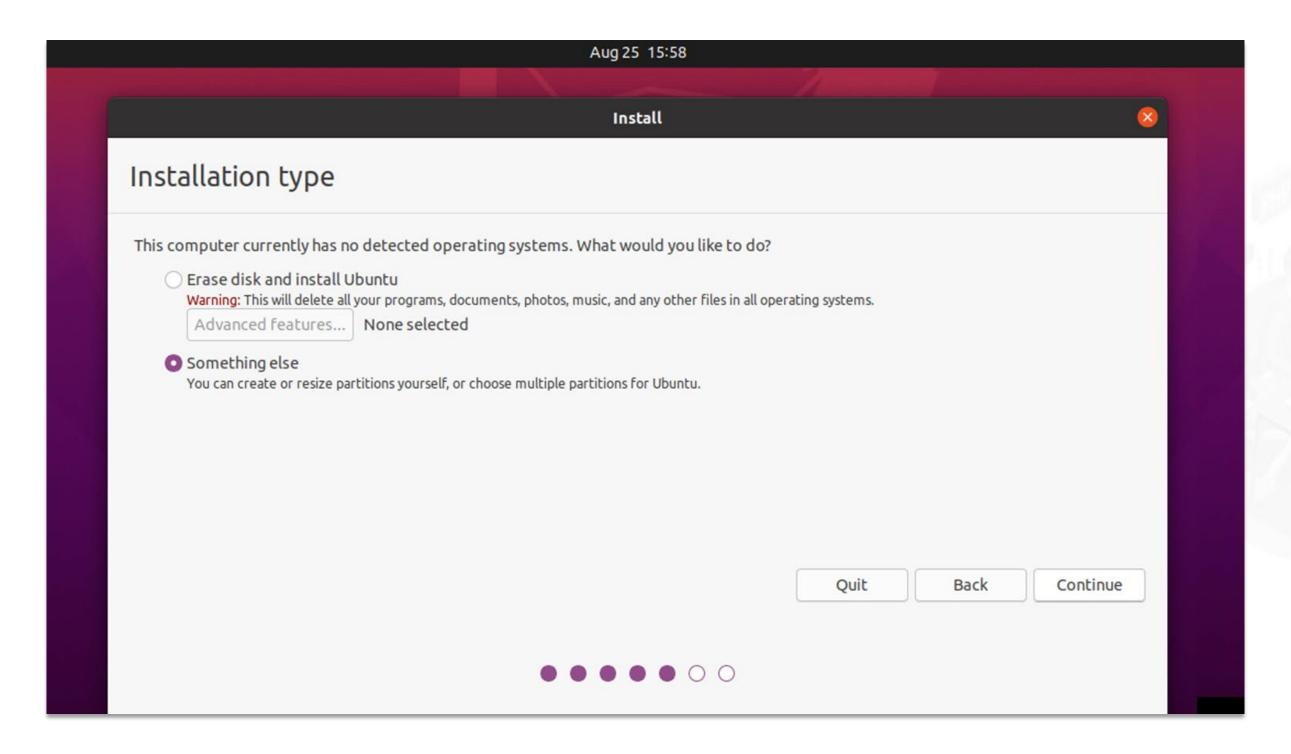


Choose the apps you want to install (normal or minimal installation)



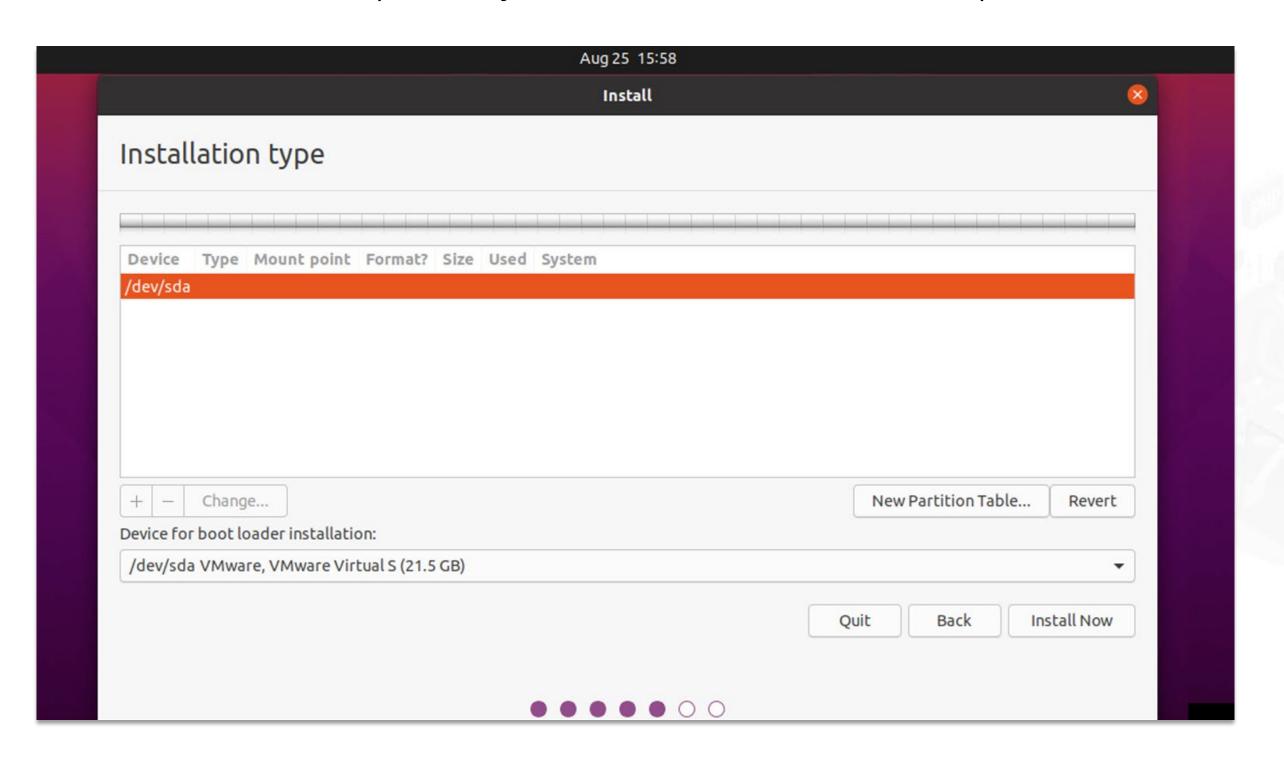


Manually set up partitions



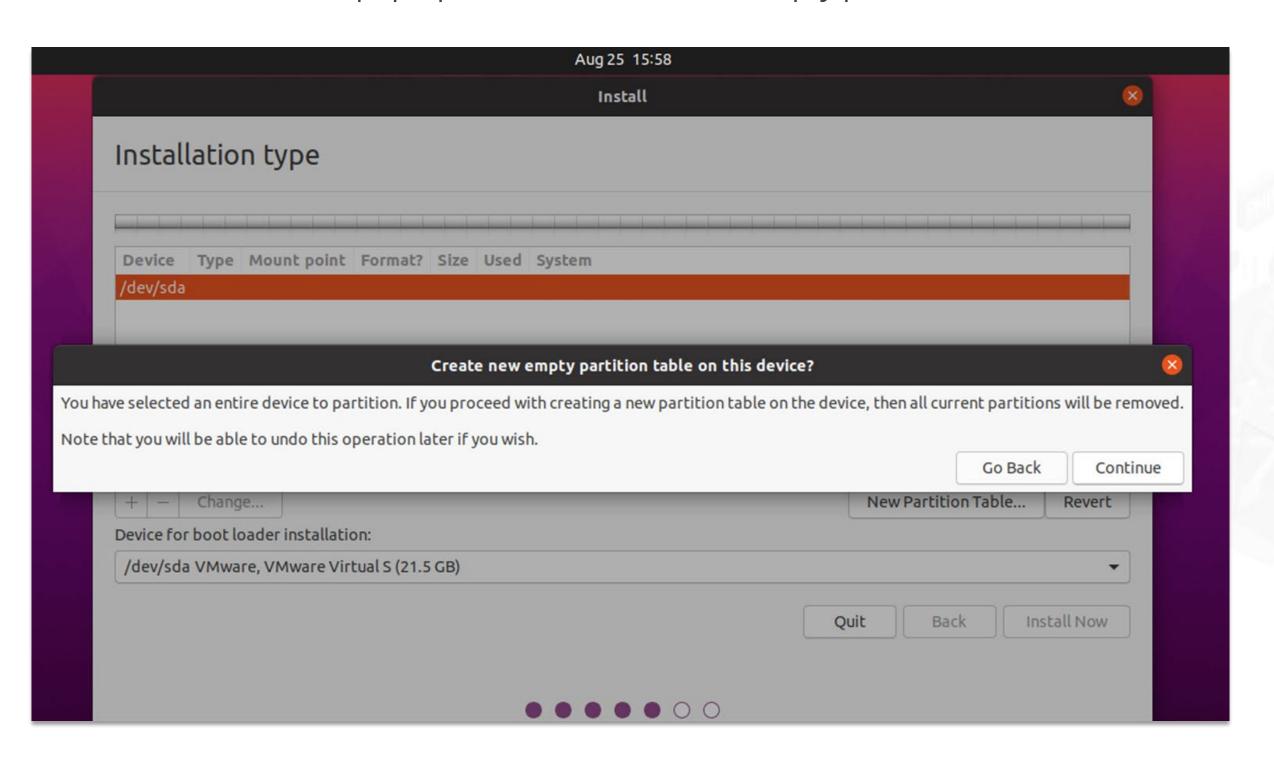


In this screen, partition your hard drive for the installation process.



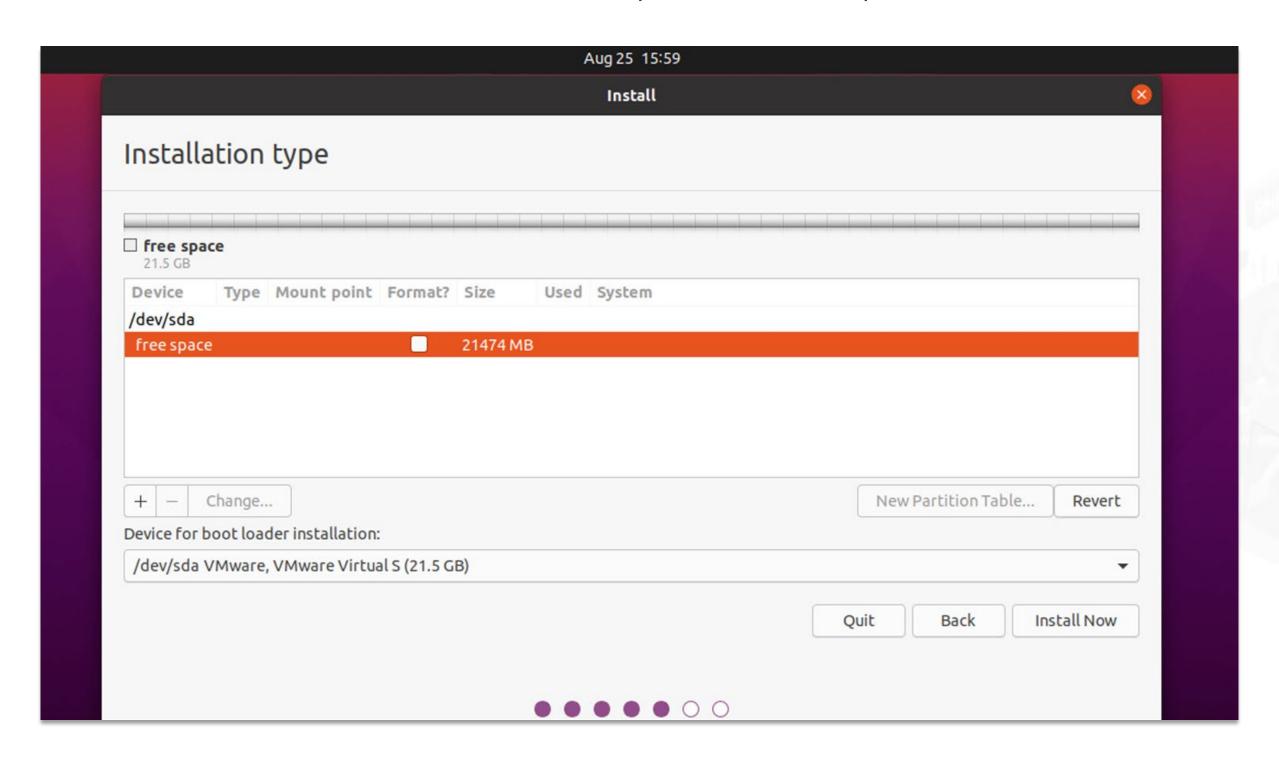


Click **Continue** from the pop-up window to create an empty partition table on the device.



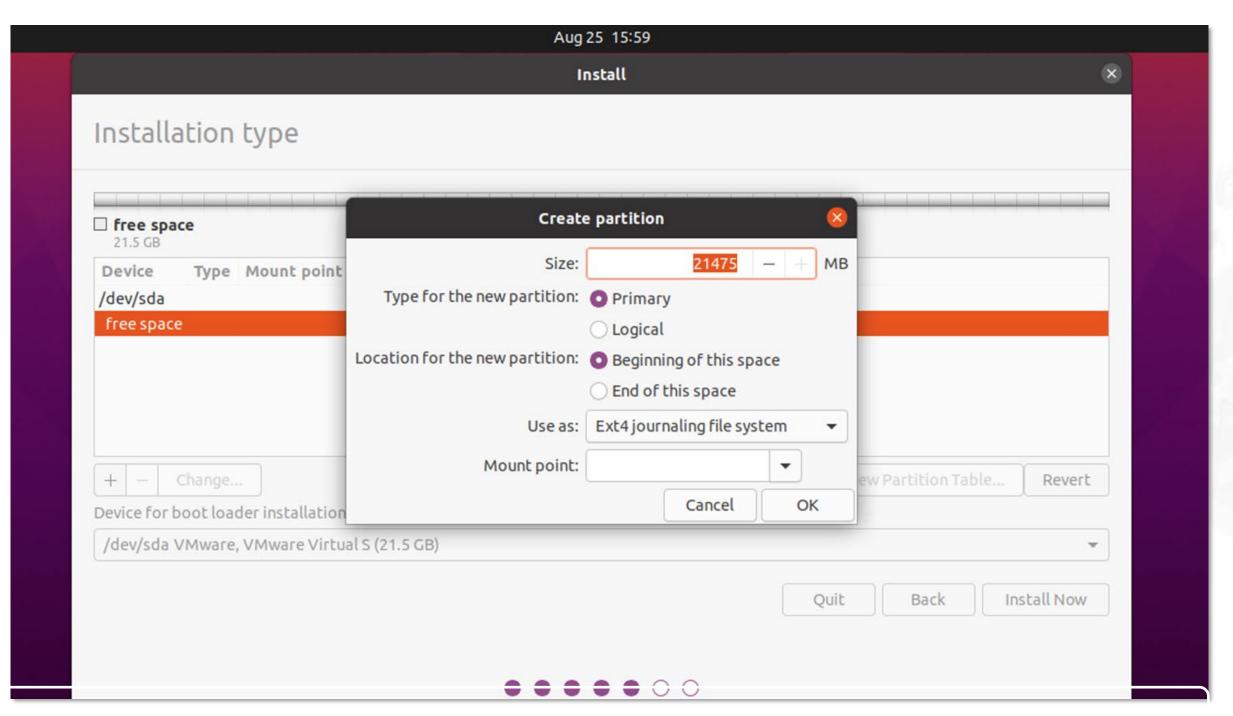


Double click on the free space to create a partition.





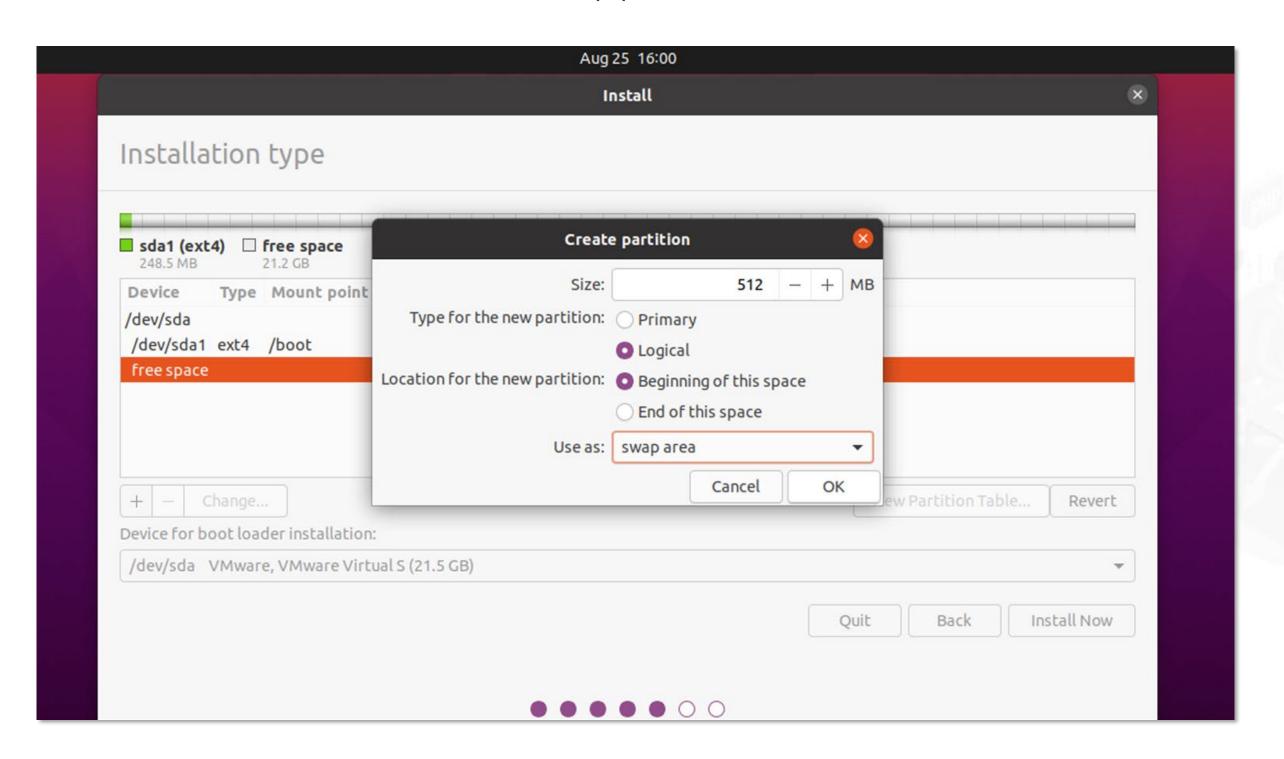
Create a root partition, enter the size of the new partition out of the total free space, and set the file system type to EXT4.





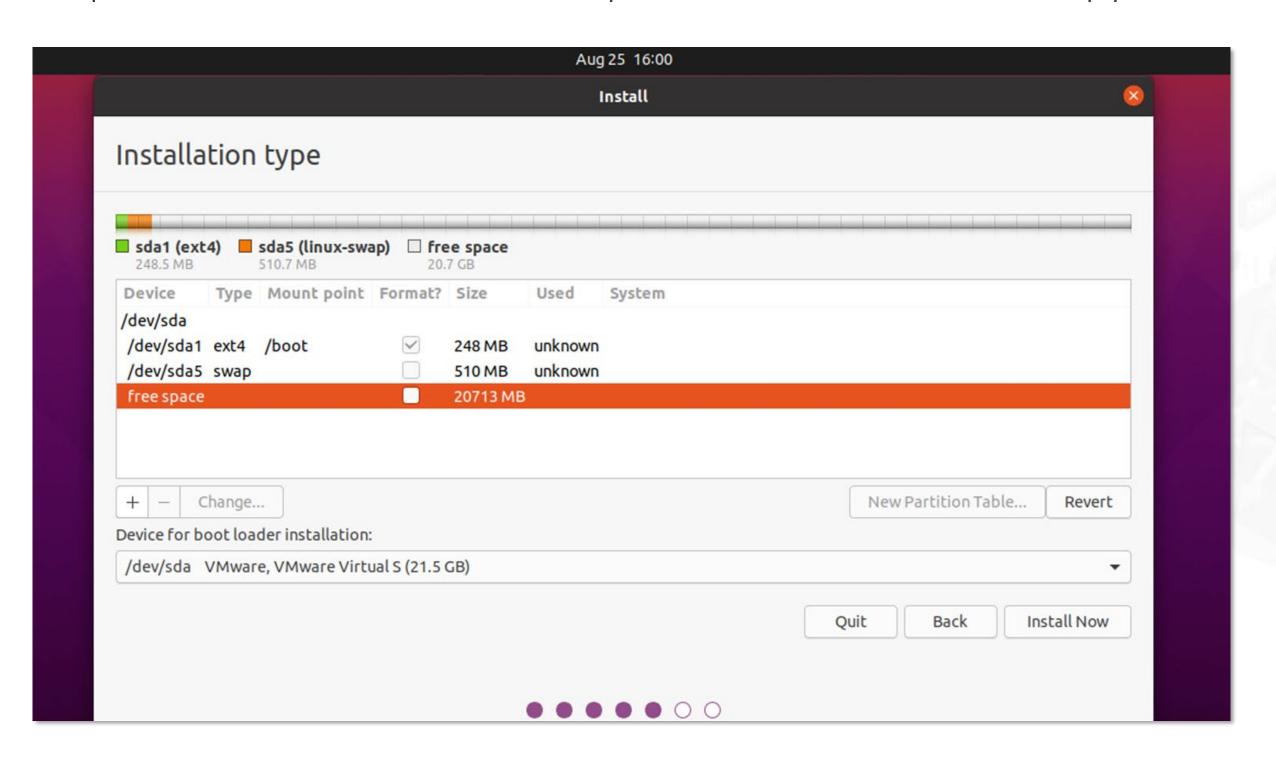


Create a swap partition or area.



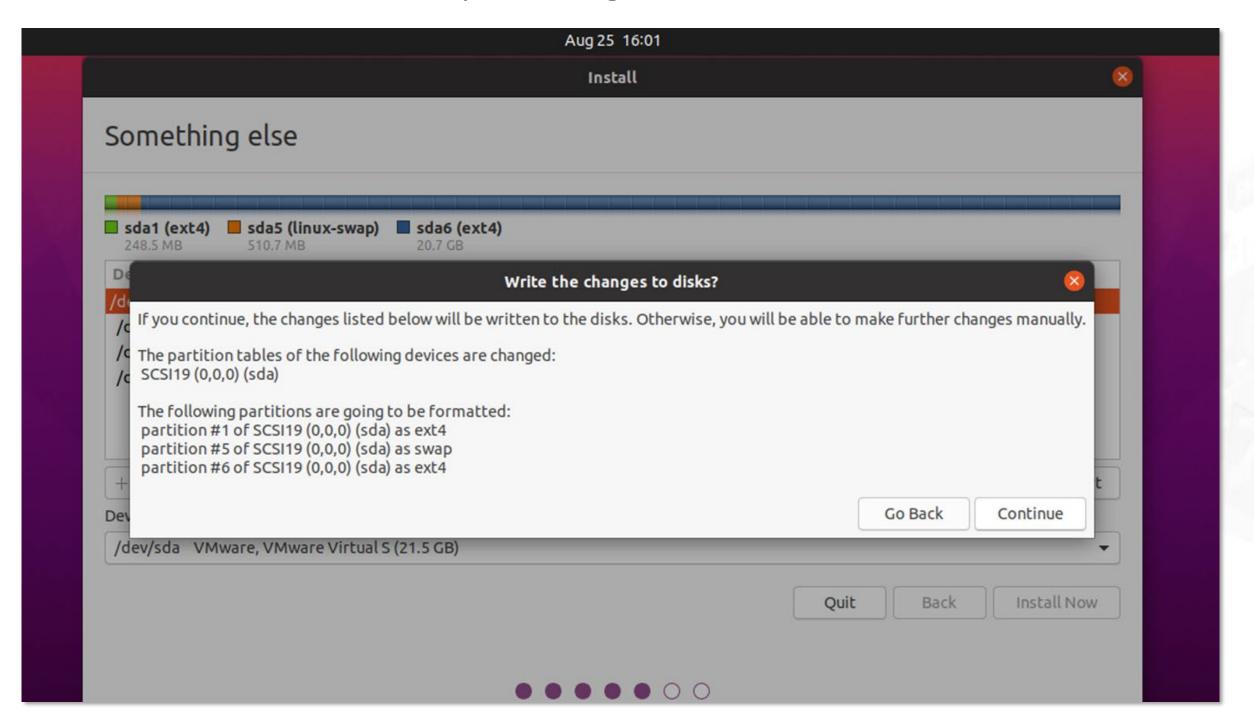


Two partitions are created, one is the root partition and the second is the swap partition.



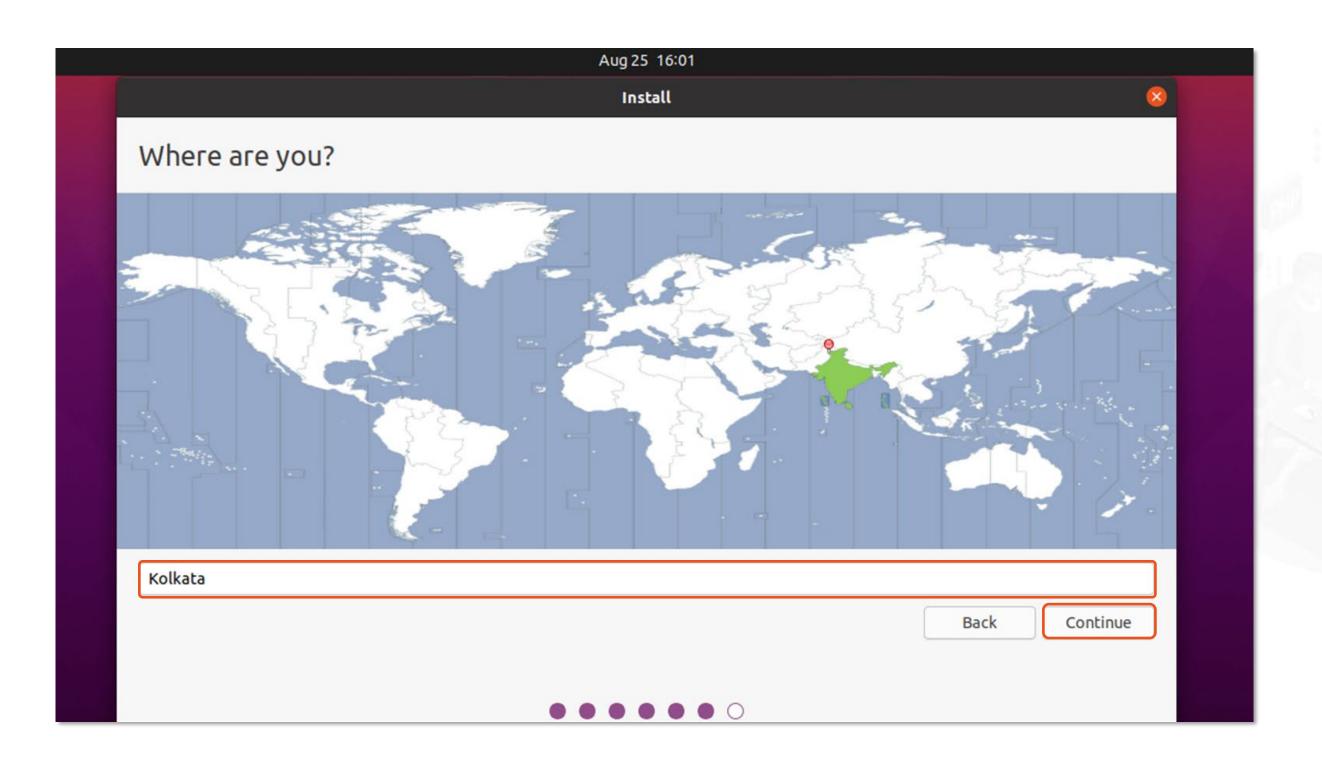


Click on **Continue** to permit the installer to write the recent changes concerning the partitioning of the disk.



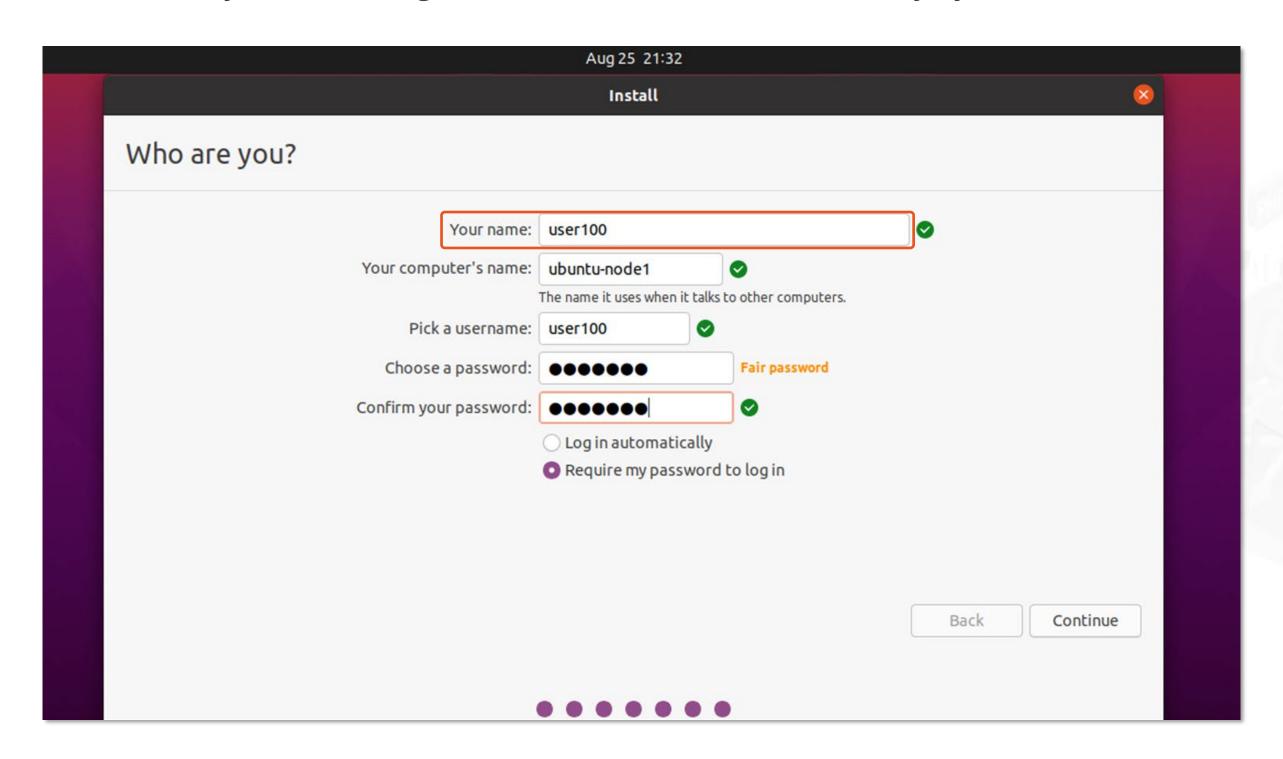


Select the location.



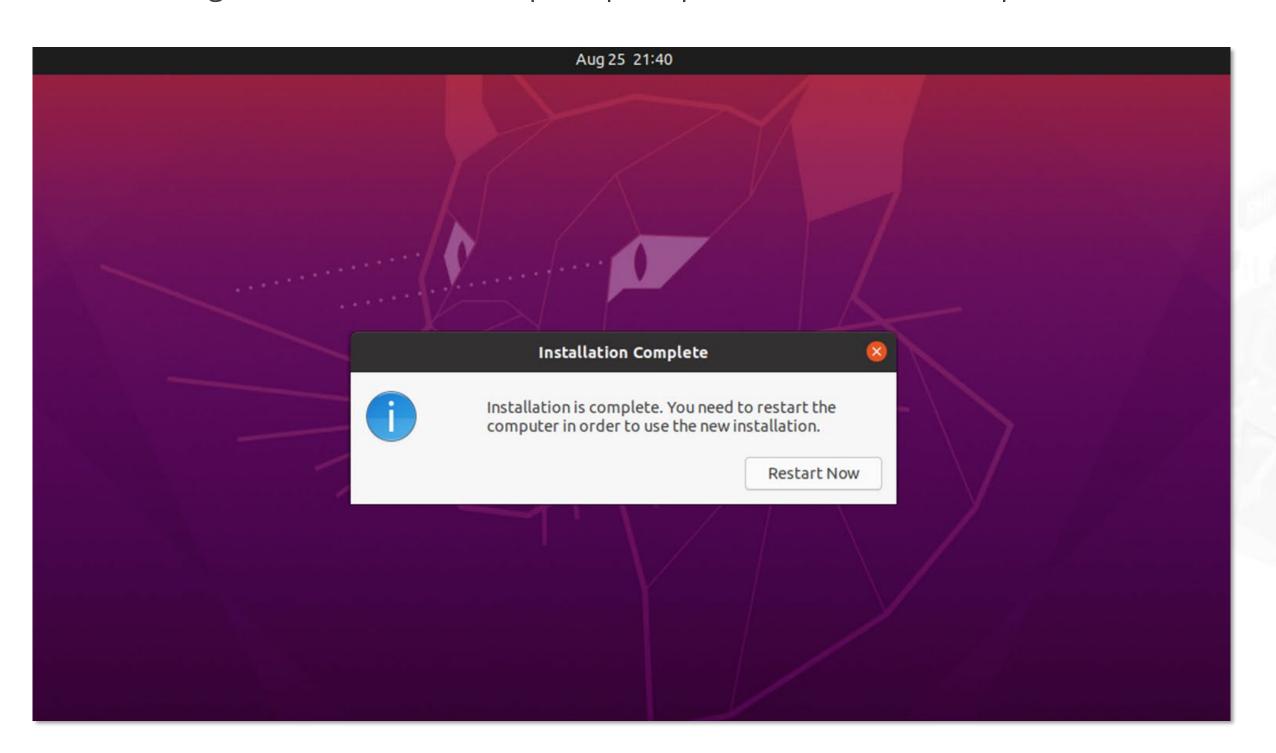


Enter your name to generate the username automatically by the installer

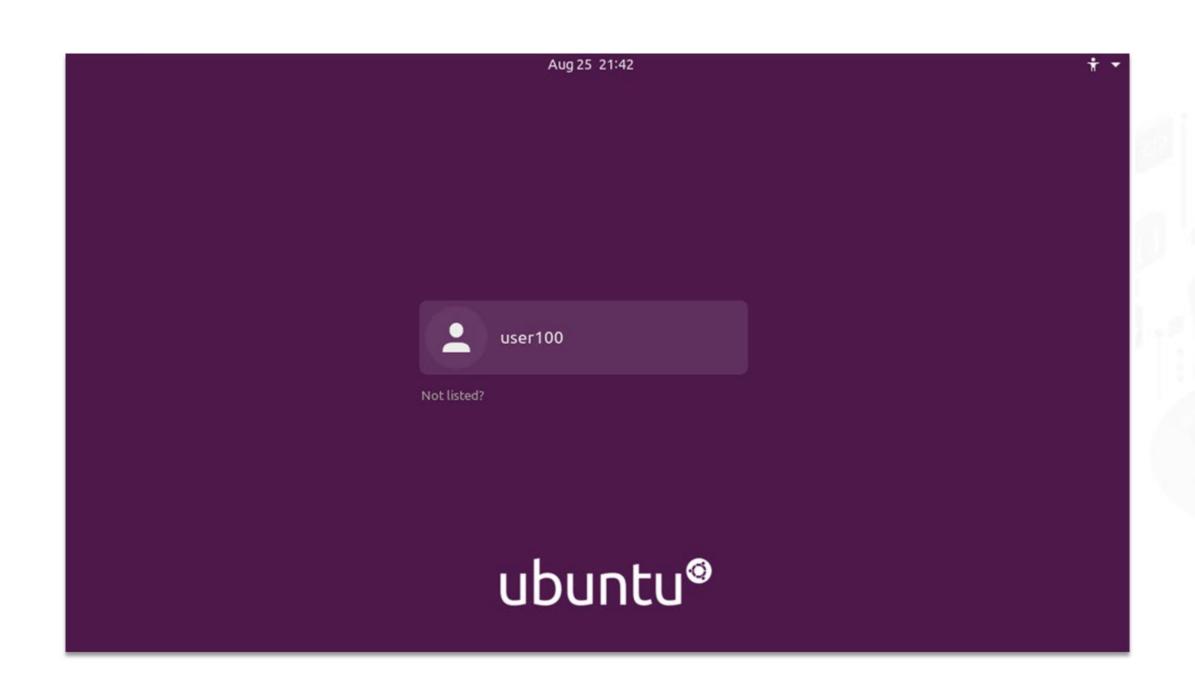




You get the installation complete prompt after the installation process.



Select the account to login.

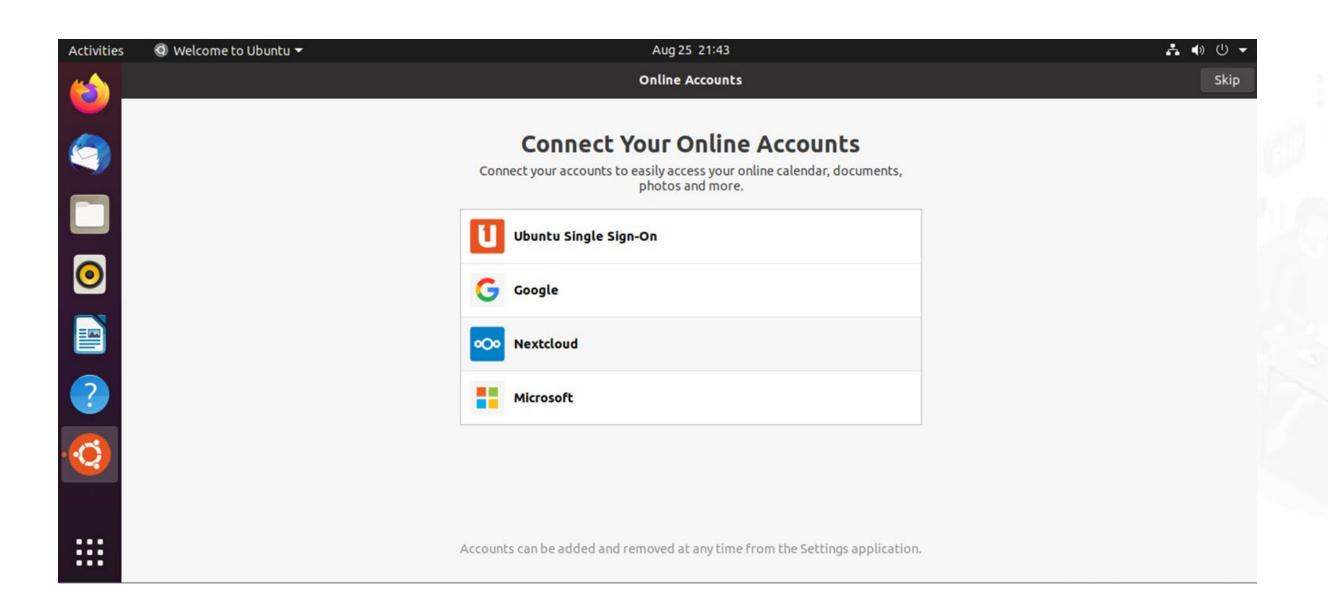




Enter the password used to create the account in the installation process.

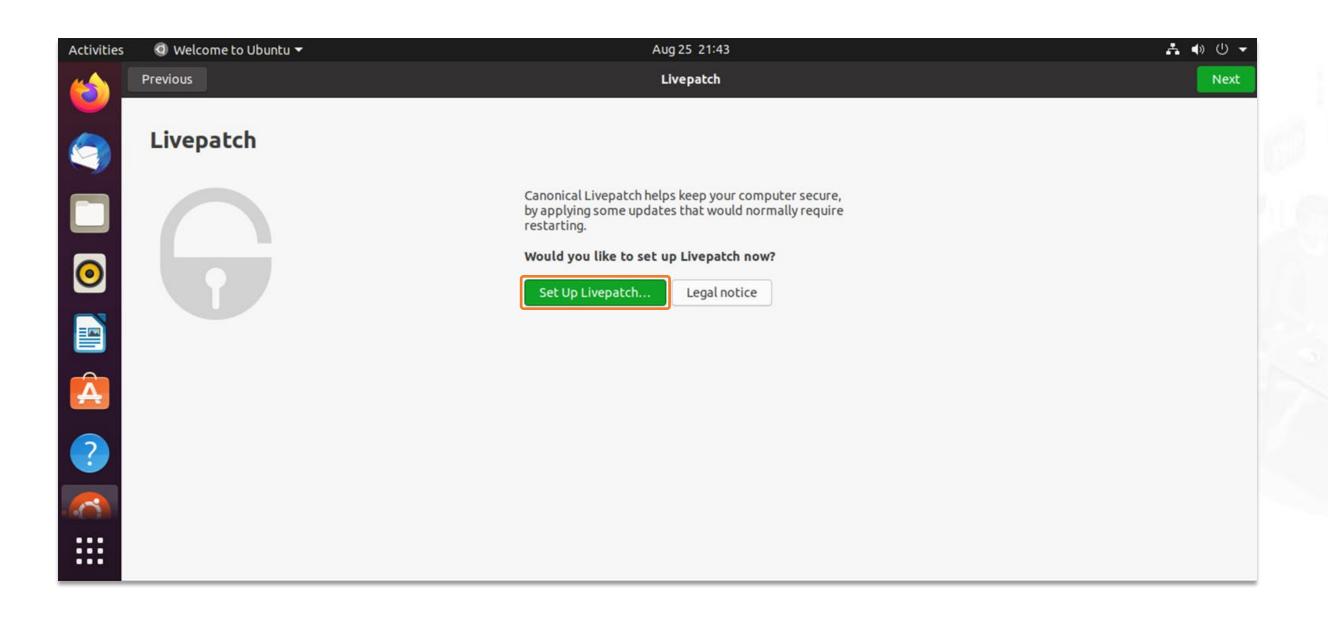


After you login, you can connect to different online accounts.



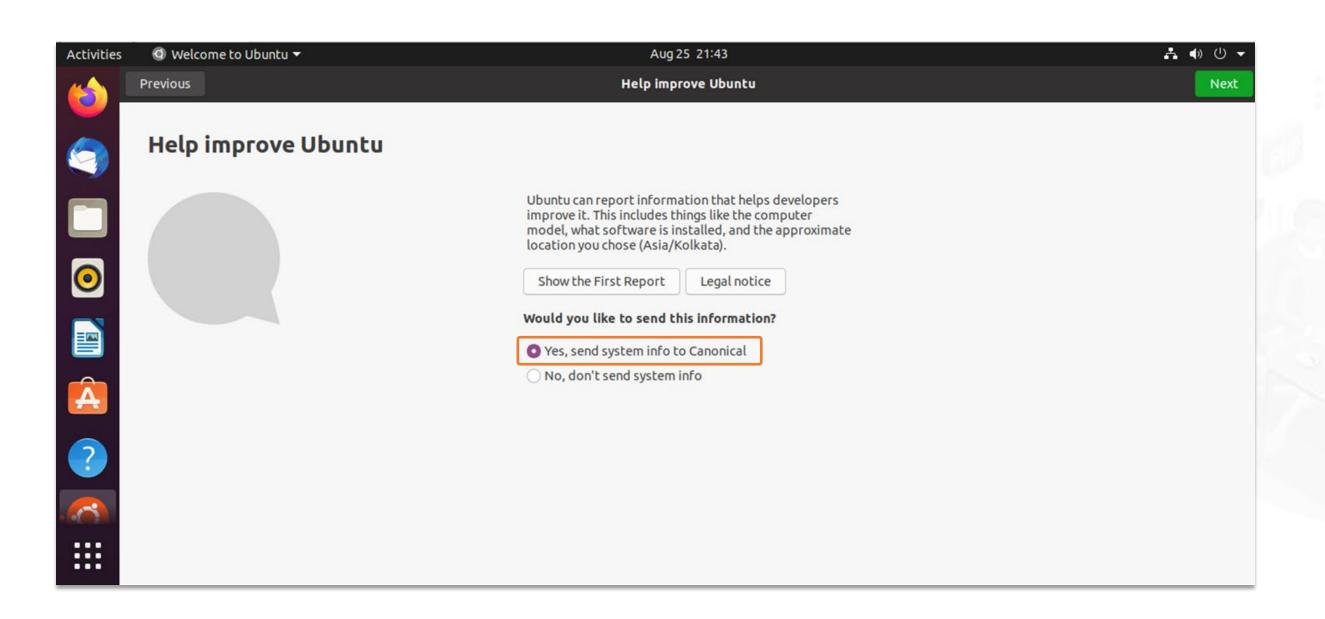


If needed, set up Livepatch to keep your computer secure.



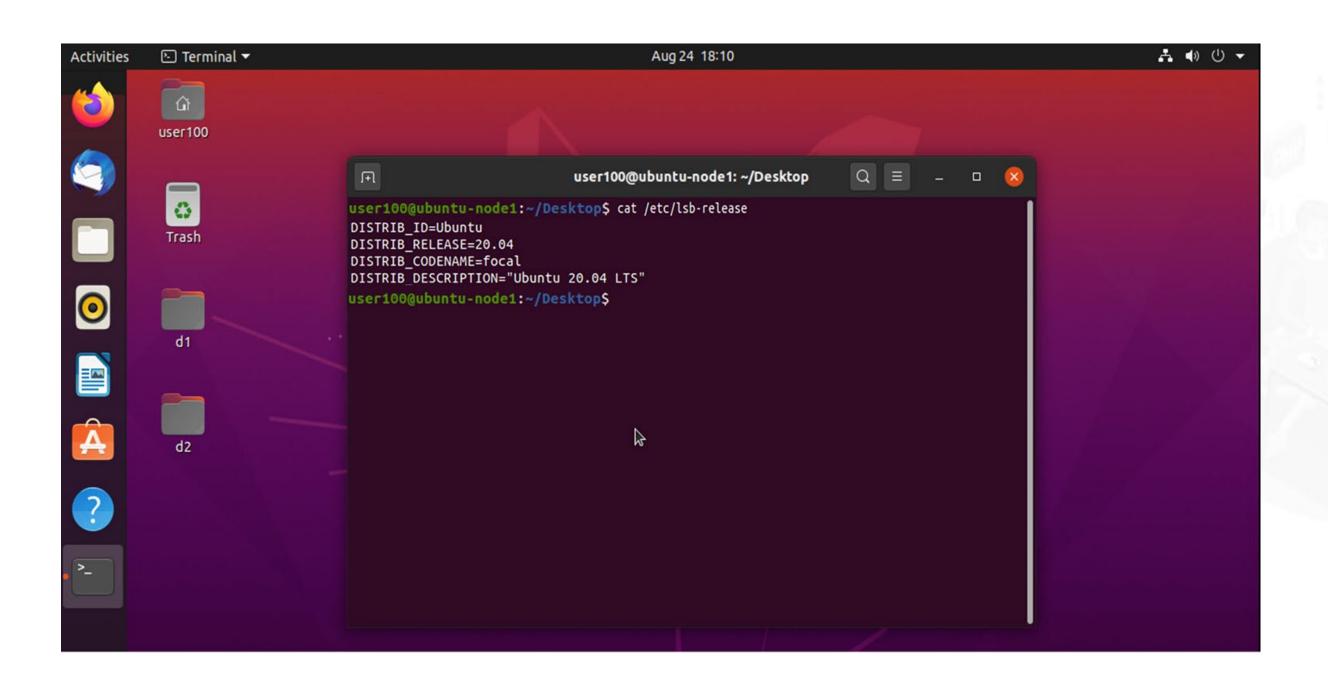


Select yes or no to send usage information to Canonical and click on Next.



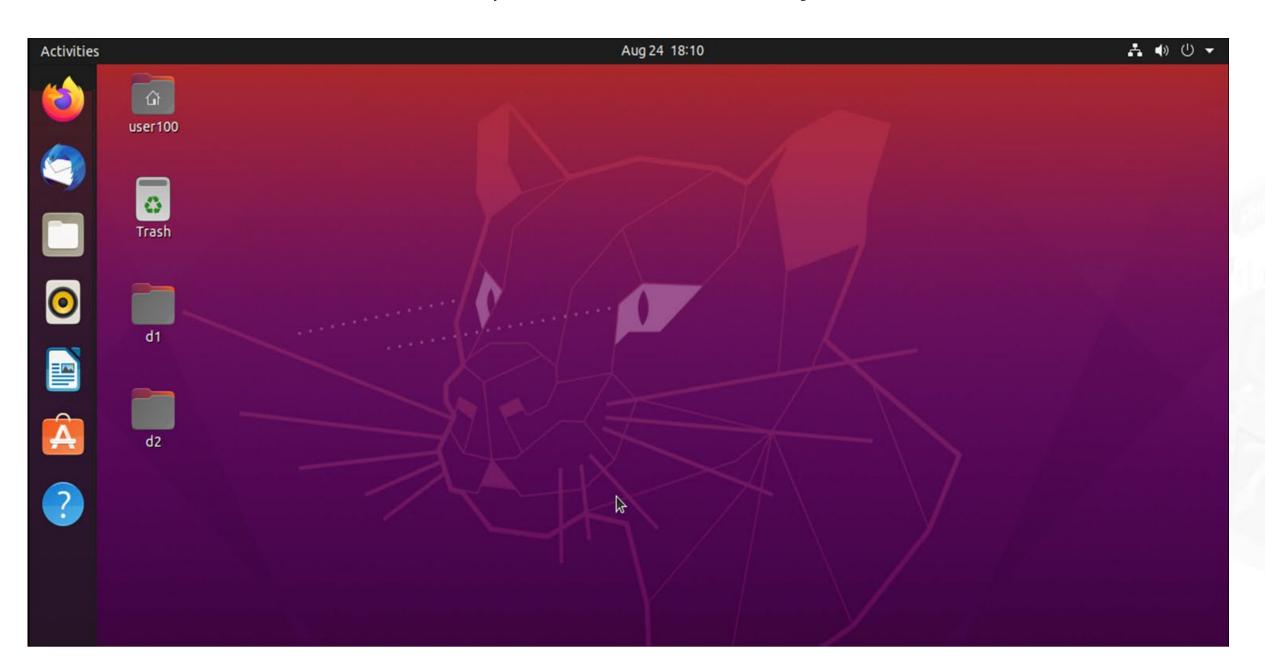


Check the release of the installed product from the terminal window.



Terminal and Console

Terminal is an input interface offered by the Ubuntu OS.

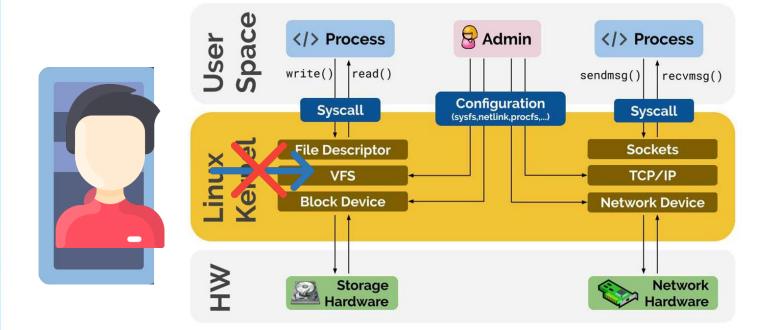


Console is a special type of terminal which is used when the operating system is not functioning.



Kernel Architecture

The image represents the architecture of a kernel.



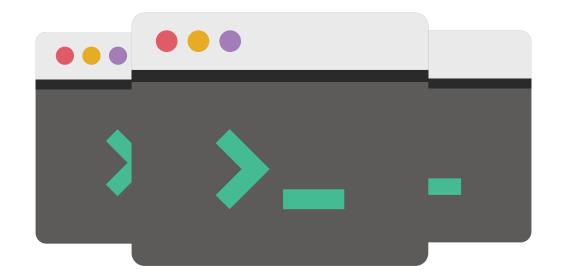




- Kernel is the core component of an operating system.
- Kernel provides user interface between applications and hardware of the system.
- The main functions of the kernel architecture include managing CPU, memory, and IO devices.

Kernel Version

uname - r command is used to find the kernel version.





Key Takeaways

- Ubuntu distributions are sponsored by the company Canonical...
- Minimum 4GB of RAM is required to install Ubuntu in a system.
- Ubuntu can be installed either by booting from a DVD drive or USB.
- Kernel is the core component of the operating system.

TECHNOLOGY



Knowledge Check

Which of the following is the recommended hard-drive space required to install Ubuntu?

- A. 1 GB
- B. 5 GB
- C. 25GB
- D. 100GB



1

Which of the following is the recommended hard drive space required to install Ubuntu?

- A. 1 GB
- B. 5 GB
- C. 25 GB
- D. 100 GB



The correct answers is

Minimum required hard-drive space to install Ubuntu is 25 GB.



2

Ubuntu is a version (or distribution) of which of the following operating systems?

- A. Linux
- B. Windows
- C. Android
- D. DOS



2

Ubuntu is a version (or distribution) of which of the following operating systems?

- A. Linux
- B. Windows
- C. Android
- D. DOS



The correct answer is A

Ubuntu is a version of the Linux operating system.



Which of the following is the file type of the Ubuntu download package?

- A. zip
- B. jar
- C. iso
- D. tar



3

Which of the following is the file type of the Ubuntu download package?

- A. zip
- B. jar
- C. iso
- D. tar



The correct answer is **C**

The Ubuntu download package is an iso file type.



4

Which of the following commands is used to verify the current kernel?

- A. uname -r
- B. uname –s
- C. Uname -p
- D. dmesg



4

Which of the following commands is used to verify the current kernel?

- A. uname -r
- B. uname -s
- C. Uname -p
- D. dmesg



The correct answer is A

uname-r is the command used to verify the current kernel installed in the system.

