What is Linux / Unix ?

It is a operating system initially created by Linus-Torvalds in the year 1991.

Operating system :

An operating system is a software that acts as an interface between system hardware and the user . And provide services to system programs.

Advantages of linux

1. It is free.
2. It is an opensource software

( Open [source](https://dictionary.cambridge.org/dictionary/english/source) software can be [obtained](https://dictionary.cambridge.org/dictionary/english/obtain) [legally](https://dictionary.cambridge.org/dictionary/english/legal) and for [free](https://dictionary.cambridge.org/dictionary/english/free) from the [internet](https://dictionary.cambridge.org/dictionary/english/internet), and can be used, [shared](https://dictionary.cambridge.org/dictionary/english/shared) or [changed](https://dictionary.cambridge.org/dictionary/english/changed) without [paying](https://dictionary.cambridge.org/dictionary/english/pay) or [asking](https://dictionary.cambridge.org/dictionary/english/ask) for [special](https://dictionary.cambridge.org/dictionary/english/special) [permission](https://dictionary.cambridge.org/dictionary/english/permission) )

It is also said as FOSS (free and open-source software).

1. It is a multi-user operating system (multiple users can work simultaneously)
2. It is a multi-tasking operating system ( it can run multiple tasks simultaneously without affecting system speed.)
3. Security is the main reason for most of the developers to choose it. It is not completely safe, but less vulnerable than other operating systems. Each application needs to be authorized by admin user. The virus is not executed until the administrator provides the password.
4. It is cui supports both GUI (graphical user interface) and cui ( character user interface).

cui is more powerful than GUI.

Example to create a new directory using GUI, you need to navigate to the location where you want to create the new directory, right-click on an empty space, and select "Create New" and then "Folder". You can then enter the name of the new directory and press Enter. But if you want to create 100 folders it is a tedious task in GUI, but if you do that in the CUI by using a simple command ( mkdir dir {1-100} ) 100 folders can be created.

Different types of linux operating systems are

Over 600 Linux distributions exist, with 500 of them actively being developed.

Some of the popular linux operating systems are

<https://distrowatch.com/index.php?dataspan=52> // check the popular list here