

What is the Linux operating system? Learn from AZ about Linux

Although it is commonly used, not everyone knows the concept and advantages and disadvantages of the Linux operating system? Let's find out right here.

Besides the outstanding development of Microsoft Windows and Mac OS, there is still an operating system that is favored by a portion of users thanks to its unique advantages, which is Linux. So, what is the Linux operating system? Let's learn from AZ this operating system with TipsMake through the content of the article below.

What is the Linux operating system?

Here are the factors you need to consider when you want to learn about the Linux operating system:

Define

Linux is one of the operating systems written in **C language** . It was born in 1991 and developed based on the Unix operating system.

The Linux operating system possesses outstanding advantages and above all is released for free on the market. Therefore, this operating system is still trusted by many users before big names like Windows or macOS.

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History

Linus Torvalds' idea of ??building a new operating system to change the old operating system in education in 1991 began to arise while he was studying at the University of Helsinki.

He started researching the new operating system from the first lines of code he wrote himself. This is also a solid foundation for the strong development and popularity of the Linux operating system today.

After decades of development, the Linux operating system is currently divided into many versions such as: Ubuntu, Linux Mint, Fedora,. However, the Ubuntu version of the Linux operating system is the device being used by many users. best.

Structure of the Linux operating system

The Linux operating system is composed of three main components: Kernel, Shell and Application. Specifically, each component of this operating system will be suggested by TipsMake below.

1. Kernel

This is the kernel in the Linux operating system, so it is considered the **most important part** in the computer. Because, in addition to containing modules and libraries for management, the kernel also takes care of communication between applications and hardware in the computer.

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2. Shell

Is the part responsible for executing commands **from** users or applications installed on the computer. The above commands will be transferred to the Kernel department for processing. Accordingly, the Shell is the place to connect and interpret commands from the Kernel for the Application to execute.

Currently on the market Shell is divided into the following types: sh (the Bourne Shell), ash (Almquist shell), zsh (Z shell), bash (Bourne-again shell) and csh (C shell).

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3. Application

Perhaps this is quite familiar to those who have used computers. Because, this is the part where users can install and run applications on their computers.

Uses of the Linux operating system

In essence, the Linux operating system is formed based on the Unix operating system. Therefore, the uses of this operating system are similar to other operating systems.

Linux is an important platform installed on computers to create an intermediary field to help users and hardware communicate with each other. From there, it helps you to carry out your work in the most timely and effective way.

In addition, the Linux operating system is also equipped with open source applications. This brings comfort to computer users, especially developers and programmers.

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Why should you use Linux operating system?

Although it has similar uses to other operating systems on the market, what is the reason why many users trust and use the Linux operating system? Let's take a look at some reasons to use this operating system:

High stability

The biggest advantage of the Linux operating system is the ability to handle a large amount of work at the same time without encountering degradation or instability.

Thanks to such high stability, the Linux operating system is the optimal choice for businesses. Because thanks to this operating system, you will minimize risks when performing operations on your computer.

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Good security capabilities

Linux is operating on the basis of a multitasking operating system, Unix. Therefore, this is a part that only allows root users and administrators to be able to provide access rights. Therefore, this is an operating system that is highly appreciated for its security capabilities for users.

Quite flexible

The Linux operating system is designed to optimize its flexibility. Because it allows users to expand or work well on all computers. In addition, Linux is not affected by the machine and processor architecture while the user is operating.

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Proactivity

Currently, all versions of the Linux operating system are released for free. Therefore, users can freely combine and choose what suits their computer. Therefore, individual users or businesses can rest assured about copyright issues.

Low price

As suggested from the previous content, the Linux operating system is currently distributed for free. This is also an important reason contributing to the popularity of the Linux operating system today.

What are the advantages and disadvantages of Linux?

Thanks to its outstanding advantages, Linux is used by many users. However, the Linux operating system also has certain disadvantages. As follows:

About advantages

1. The Linux operating system is completely free and comes with office applications such as OpenOffice and LibreOffice.
2. Linux's security is very high.
3. Linux can allow users to modify the operating system to suit different needs.

4. Limits stuttering, lag, not running smoothly, etc. on computers with low configuration.

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About disadvantages

1. The amount of software to support the Linux operating system is limited. Because, many software developers are still not really interested in the potential of this operating system.
2. Some manufacturers still do not develop drivers to support the Linux platform.
3. It takes a lot of time to get used to if you are using Windows and switching to Linux.

Differences between Windows and Linux

Compared to the Windows operating system, Linux has the following basic differences:

Details	Linux	Windows
File structure	Data tree	Folder
Registry	Are not	Have
Package Manager	Package manager	*.exe
Display	The interface is completely separate from the system	Interface attached to the system
Account and usage rights	Regular, Administrator (root), service	Administrator, Standard, Child and Guest
Some other control settings	Suitable for work: Surfing the web, chatting, email,.	Suitable for all needs, especially gaming

Versions of the Linux operating system

Below are some versions of this operating system compiled by TipsMake as follows:

1. Ubuntu

This is the most popular version in the Linux operating system segment. The main goal of launching the Ubuntu version is to provide users with the highest quality operations and experiences on servers and computers.

Today, Ubuntu has been constantly improved to suit each user's needs. However, despite being upgraded many times, this version remains unchanged and has more outstanding advantages compared to other versions.

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2. Linux Mint

Currently, Linux Mint is a GNU/Linux version developed based on Ubuntu. Thanks to inheriting all proprietary software and media from the Ubuntu version, Linux Mint is also the operating system loved by many users.

One of the differences in this version that users often mention is that Linux Mint has a friendly interface. And it is also a combination of Windows 7 and macOS X.

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3. Debian

Debian is a perfect choice for people who need to use highly stable computers, especially programmers. Because, this operating system is integrated with open source software and is completely distributed for free.

Although Debian releases and updates new versions regularly on the market. However, the biggest drawback of this operating system is that updates are quite slow compared to other versions being distributed on the market.

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4. Fedora

With the Fedora version, you can freely change and develop everything in your computer to suit your needs. This version is carrying some quite popular software and is considered the most suitable product line for programmers. Because, Fedora supports a number of free tools and platforms for programming.

Although Fedora constantly updates new technologies such as new file systems, new virtualization techniques, etc. However, this version is limited in issues related to the installation process in the field of graphics. exclusive painting.

5. CentOS Linux

This is a commercially distributed version of Linux for workstations and servers. CentOS is developed by the community and operates on the Fedora platform.

Besides, this operating system also operates well and smoothly on mainframes, especially KDE, GNOME, etc. Therefore, if there is a need to use the Linux operating system, businesses should consider the Linux version. CentOS version because the stability and security of this version are highly optimized.

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6. OpenSUSE/SUSE Linux Enterprise

Considered the most user-friendly version, the software equipped on OpenSUSE gives you a completely different experience from other versions of Linux.

Besides, this operating system also meets the need for continuous software updates and ensures stability when operating. Because the latest updated versions are thoroughly tested by the manufacturer before being released to users.

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7. Mageia Linux

Released in 2010, Mageia is currently the most compact and flexible version of the Linux operating system.

In addition, this is also a clean configuration version, optimizing database speed by 3 - 5% and designed to be easy to edit to give users the most comfortable feeling in each experience.

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8. Slackware Linux

Distributed on the market for more than 13 years, Slackware Linux is currently the longest-running version of the Linux operating system. The most outstanding feature of this version is that it is compact and designed to suit low-configuration computers.

Currently, Slackware Linux is still used by many businesses and is continuously updated in new releases.

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9. Puppy Linux

In fact, Puppy Linux is currently one of the prominent versions in the Linux operating system. Because, in addition to being developed on the basis of Slackware, this version is also designed to be the lightest operating system but still ensures smoothness when working with basic applications on the computer.

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Which Linux version is best?

According to the Linux operating system website, currently **Linux Mint** version is the operating system that receives the support of many users for becoming a representative to compete with other operating systems such as Windows, MacOS, .

Linux Mint also allows users to use a blank DVD or a USB to install applications more easily. In particular, this version also supports full multimedia for users when completing the installation process on the computer. Specifically, some reasons to use the Linux Mint operating system are as follows:

1. Runs after user installation.
2. The software store is lighter and faster than other versions
3. Uses less memory than other versions.
4. Allows computer users to customize the interface easily.
5. The application source is extremely rich and diverse
6. Integrate Codecs, Flash and other default applications.

Frequently asked questions about the Linux operating system?

Below are frequently asked questions surrounding the Linux operating system. Find out with Huy Khang!

Which devices use the Linux operating system?

Most businesses and individuals choose Linux for their servers because it is secure, flexible, and you can get great support from a large user community.

Many devices you may own, such as Android phones and tablets and Chromebooks, digital storage devices, personal video recorders, cameras, etc. Even Microsoft Windows has components Linux, typically WSL (Windows Subsystem for Linux)

Is Linux a programming language?

Linux is not a programming language but just an open source operating system. Although it still has many limitations compared to Windows and macOS, it also has many unique and outstanding benefits for itself.

Epilogue

Above are all the suggestions about the Linux operating system that you should refer to. Hopefully this article will bring you a lot of valuable information about this operating system. Thank you for reading the article and don't forget to leave a comment below the article if you have any questions!

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