

What are proxies? Outstanding features and how to install Proxy Server

Understanding what a Proxy is will help you choose a device that provides a safe indirect connection between the user and the current internet network.

The term, Proxy or Proxy server is the most searched keyword for people who are banned from Facebook or want to fake their IP address to play a certain location-restricted game. So, what is a Proxy? What are the outstanding features and instructions for installing Proxy Server? Let's find out with TipsMake through the content of the article below!

What are proxies?

A **proxy** is an electronic device that acts as a gateway **to connecting to the internet for computer users** . At the same time, according to the understanding of those with more expertise, this is the part that acts as a firewall and **Web data filter** on computers.

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Besides, Proxy server can also provide shared network connection and cached data to help your computer handle requests faster. Depending on the company's needs or scale of use of this device, the Proxy server will provide different functions and security for users.

In addition, a Proxy is also considered a computer system or a router that separates the connection between the recipient and the sender. Therefore, each Proxy device produced should have its own IP number and a fixed access port. So, what are the basic features of a Proxy and how does this device work? All will be answered by TipsMake in the content below.

Some main features of Proxy Server

Proxy server is the part that provides users with extremely important features on wide area networks, including the following 3 basic features:

1. Firewall and Filtering

Proxy server is the part that specializes in performing tasks at the **application layer, the 7th layer in the OSI** reference model . At the same time, supports screening other applications independently.

Therefore, if you equip this device with standard configuration, the security and performance of using the internet on your computer will be optimized. Most proxies have capabilities that conventional firewalls cannot provide.

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2. Share connection with Proxy Server

Proxy server is a solution that provides more efficient extension of internet access. Instead of assigning each client a direct Internet connection, here. Most internal connections are allowed through one or more proxies and will connect out in order.

3. Proxy Server and Caching

Currently, there are 3 ways that Proxy servers can Caching websites to improve the quality of the internet, suggested as follows:

1. **First way** : Optimize scalability and increase network bandwidth.
2. **Method 2** : Improve speed and processing capacity for the client.
3. **Finally** : A way to increase the ability to access and serve the original source or central network link in an offline state.

How Proxy Server works

In essence, a Proxy server is considered a computer operating on the Internet with a separate IP address. When a website request is sent from a user's computer, the first Proxy server is where it first encounters. Once here, the data will be processed and carried out to fulfill the user's request. Besides, it also synthesizes responses from the web server and sends website data back to users who can see the website in the browser.

At the same time, it also encrypts the data so that no one can read it while the transport takes place. Finally, proxy servers can also prevent access to a specific website based on IP address.

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Proxy Server advantages and disadvantages

Below TipsMake will send you the pros and cons of Proxy Server:

Advantage

Proxy is a necessary part for all computers that use web browsers. Because, it integrates many of the following advantages.

1. **Optimized user privacy** : You can use a Proxy server to access the internet in private mode. Besides, some Proxy servers also allow changing IP addresses and identification data when you request. Therefore, users' personal information and web browser habits will be better secured.

1. **Enhanced control capabilities** : This is an advantage that brings many benefits to users when your activities on the browser will be filtered and become safer with a Proxy.

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1. **Save bandwidth and increase processing speed** : Using a Proxy server will bring more efficient request processing performance to the overall network. At the same time, it helps you store commonly used websites. From there, optimize bandwidth in the best way.
1. **Access to blocked content** : Proxy servers allow organizations or companies to restrict users from accessing specific content. But if you are using a Proxy that has the ability to change the IP address to customize the geographical location. You can easily access simple blocked content.

Additionally, it also gives you the ability to encrypt web requests and block malware. Organizations and businesses can connect Proxy servers to VPN. Employees can access the Internet remotely using the company's Proxy.

VPN is the definition of a direct connection to a business or organization's network that the business itself provides to remote users. From there, user verification can be easily managed through VPN. Assist employees in accessing resources. At the same time, this secure connection can protect important company data.

Defect

Besides the above advantages, Proxies also have certain limitations such as:

1. **Slow speed** : Although loading speed is supported on web browsers thanks to the Caching Proxy component, when accessing new websites, the Proxy component appears to have a slow connection during operations.
2. **Unstable operation** : Some Proxy lines provided for free on the market often do not have high processing performance. Besides, there are also sudden disconnections and service interruptions while you are accessing the website.
3. **There are some limitations regarding security issues** : In case you connect a Proxy device via a wireless network, there is a possibility that your web browser activity is being monitored. Because, this is a situation where the Proxy cannot encrypt traffic on your computer.
4. **Functional limitations** : Some users believe that Proxies cause difficulty and inconvenience for them when accessing the web. Because, one individual can install a Proxy to apply to the entire device only.

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Classification of Proxy Server

Currently, Proxy servers are being distributed with 4 main types, including: Transparent Proxy, Anonymity Proxy, Anonymity Proxy and High Anonymity Proxy.

1. Transparent Proxy

The Transparent Proxy line is also known by another familiar name, Transparent Proxy. This product allows you to use the user's IP address to validate web requests. At the same time, it also has the function of filtering content and setting server and client names, so it is commonly used in businesses, schools and public libraries.

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2. Anonymity Proxy

Called **Anonymous Proxy**, the **Anonymity Proxy** line will not provide your IP address when accessing the web. This brings high security and privacy to users. Because anonymous Proxies help minimize information theft and advertising content being marketed to your location.

3. Distorting Proxy

The Distorting Proxy line has the mechanism to act as an anonymous Proxy line. Because, this device provides a fake IP address of the user to the web server. From there, absolutely protects the user's **IP security** and helps you access blocked content when appearing in another location.

4. High Anonymity Proxy

This type of Proxy provides the safest way to access websites for users. Because, **High Anonymity Proxy** has the ability to periodically change your IP address when providing data to the web server. From causing your traffic to not have a specific traffic statistics.

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Why should you use Proxy Server?

Through the many advantages Proxies bring in accessing websites for organizations and businesses. Here are the reasons why Proxy servers are commonly used:

1. **Control internet usage** : Proxy server allows you to monitor access time on the internal network of employees in the business, of household members, etc. At the same time, it also denies access Access websites during business hours with high security mechanisms.
2. **Upgrade speed and save bandwidth** : A Proxy server can handle and receive thousands of user accesses thanks to the storage capacity of Cache memory. From there, it brings high access speed and saves bandwidth in the most thorough way.
3. **Absolute privacy** : Proxy server allows you to convert website usage request encryption so that no third party can view the user's website usage status. At the same time, you can also restrict access to malicious websites and use proxy servers to browse the internet privately.
4. **Allow access to blocked resources** : By switching the IP address somewhere else, Proxy allows you to access another previously blocked website to exploit resources as needed.

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Difference between Proxy and NAT

The basic differences between Proxy and NAT components suggested by TipsMake are as follows:

1. A **proxy** is a device that shows the user's location when accessing the internet. **Because, each Proxy has a separate IP address** installed . Besides, it also has a mechanism that operates on 4 transports including 4 higher layers than the NAT part.
2. As for **NAT** , this is a device that has the ability to change the origin address of traffic when passing through the internet and then reaching the destination address. **At the same time, it is a part that operates on 3 network layers and follows the OSI (Open System Interconnection) network connection mechanism .**

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Difference between Proxy and VPN

Unlike Proxy devices, **VPN** is a part that helps users **hide their IP address** perfectly when accessing the internet. Because, in addition to functioning as data pipelines, it is also an extremely effective information encryption tunnel. Therefore, guest traffic connecting to the VPN server will be secured with many different layers.

The biggest difference between Proxy and VPN is that Proxy devices can only be used within the web browser with some security limitations when connecting wirelessly. VPN has higher security and can be used on all computer systems.

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Instructions for installing Free Proxy

In addition to paying a sum of money to set up the Proxy component, TipsMake will guide you on how to install the Proxy for free in the content below.

Install Free Proxy for Firefox

1. **Step 1** : You need to open the menu category on your computer's toolbar. Then continue to click '**Option**' and scroll down to the bottom of the page and select the '**.**' icon.
2. **Step 2** : At the **Connection Setting** tab , select the Manual proxy configuration category to go to the next step.
3. **Step 3** : In the HTTP Proxy section, fill in information about the **IP** address and Port of **the HTTP Proxy server** to complete the installation of Free Proxy for Firefox.

Install Free Proxy for Chrome

1. **Step 1** : Open Chrome browser and select '**Settings**' category
2. **Step 2** : Quickly select '**Advanced display**' after the window appears and drag the slider down to complete this step.

3. **Step 3** : Select the '**Change Prox settings**' component
4. **Step 4** : Finally, select '**Connections**' and click the '**LAN settings**' button to complete the Free Proxy Installation for Chrome on your computer.

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Frequently Asked Questions What are Proxies?

Below are some common questions about Proxies that TipsMake has compiled for you.

What is proxy in WIFI?

The answer to this problem is suggested as follows: The Proxy part in Wifi is the bridge between internet services and the web browser on your computer together. This part has the ability to make your internet change to private mode, with faster download speeds and superior safety. For example: Your computer's web browser links to software as a SaaS service.

Is it safe to use proxies?

Using Proxies on your computer is completely safe and does not cost much more if you install Free Proxies. However, you should also note how to use a proxy when connecting via a wireless network. Because, usually the Proxy part does not support encrypted access to the computer in this case.

Epilogue

Above is all the information about what a Proxy is that you can refer to. Hopefully this article will be useful and help you recognize the advantages and disadvantages as well as how to install this device on your computer. Good luck.

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