

# What is a server? Some criteria for choosing to buy a reputable server

TipsMake will introduce to you the concept of what a server is. At the same time, it also provides criteria for selecting quality servers.

For an organization or business's IT system to operate smoothly and conveniently for management, it must have a Server. However, for people outside the industry, this concept may still be too strange. Today, TipsMake will explain to you what a Server concept is in the easiest way to understand.

## What is a server?

**Server** is a computer **that contains a static IP** , has fast, powerful processing performance and is connected to the internet. At the Server, software is allowed to be installed to help a series of computers access to request services, data or resources.

Picture 1 of What is a server? Some criteria for choosing to buy a reputable server

In simple terms, a server is similar to a computer you use every day, but is developed with many advanced features to have fast processing capabilities and outstanding resource storage. Server serves the needs of storing and processing data for a computer network via the internet.

Therefore, servers are considered the foundation of all services on the internet environment. Services such as: Applications, websites, games,. all need a server to operate.

## History of the server's formation

Most users focus on the concept of the server but ignore its history. To have the most general perspective, below **TipsMake** will provide the formation and development process of the server.

### Formation of server server

Derived from the '**Queue**' and '**Black – box**' algorithms , the term server was formed. This is an algorithm that describes the process of processing and responding to input data to the user.

Not stopping at the function of intermediary between two data ends, every server is configured to suit the diverse needs of users.

Picture 2 of What is a server? Some criteria for choosing to buy a reputable server

## Server development process

**After the IBM 7030 Stretch** supercomputer officially appeared on the market, the definition of a server was born. In particular, it is a major milestone marking the development of the supercomputer industry in the world.

Currently, server formats are very diverse and rich. In addition to computer servers, there are also servers for telecommunications, transportation and television networks, etc.

## Popular server types

Over time, server types gradually diversify in form and type. Here are the 18 most popular server types:

### 1. Physical server (Dedicated Server)

A physical server is a type of server that operates thanks to hardware and specialized support devices including: HDD, CPU, RAM and network card.

### 2. Virtual server (VPS – Virtual Private Server)

A type of server developed through virtualization technology to split a separate physical server into a series of different virtual servers. The virtual servers after separation have the same features as the previous physical server and will share resources from the server.

Picture 3 of What is a server? Some criteria for choosing to buy a reputable server

### 3. Cloud Server (Cloud Server)

**Cloud Server** is a server developed on a cloud computing platform, so it is easy to upgrade each part without affecting the usage process.

At the same time, it is also combined from many specialized, completely different physical servers with the same **SAN (Storage Area Network)** storage system . Thanks to the fast access speed, the server operates very stably.

### 4. Database server

This is the server on which additional Database Management System software is configured. Common database management systems include: **SQL server, MySQL, Oracle,**

### 5. File server

**A file server (also known as a file server)** is a networked computer that provides space to store and share data including: text, images, video, and sound. For example: Dropbox, Microsoft One Drive, Google Drive.

The above data is accessed by workstations (or workstations). These workstations are allowed to connect to the server when they are granted access by a computer network.

Picture 4 of What is a server? Some criteria for choosing to buy a reputable server

## 6. Mail Server

**Mail Server** is a server system used to send and receive email, usually configured separately according to the business's domain name.

## 7. Application Server

**Application Server** is an application server, allowing the creation of web applications and the server environment to run them. For example, to run CRM software, ERP management software in businesses,.

## 8. Audio/Video Server

Audio/Video Server is the server used in streaming Audio and Video.

## 9. Chat Server

**Chat Server** helps users exchange data in an environment similar to an Internet newsgroup. Therefore, chat servers provide real-time online discussion capabilities.

Picture 5 of What is a server? Some criteria for choosing to buy a reputable server

## 10. Fax Server

**Fax Server** is a system installed in a local network server that allows users whose computers are attached to the LAN to send and receive fax messages.

## 11. FTP Server

**FTP server** is a computer that provides users with space to store and share data on the internet environment.

## 12. Web Server

**Web server** is a server installed with programs to serve web applications.

## 13. Proxy Server

**Proxy Server** is an intermediary server between the end user and the website they visit.

Picture 6 of What is a server? Some criteria for choosing to buy a reputable server

## 14. Telnet Server

**Telnet Server** is a network protocol with software program that allows users to access computers remotely.

## 15. List Server

**List server** is the list server, configured to handle email message service.

## 16. IRC Server

**IRC Server** is a server that allows users to access using **special software (IRC client)** and talk and discuss online with each other.

## 17. News Server

**The New Server** is intended as a source of distribution to a large number of public newsgroups, accessible through the **USENET** news network .

## 18. Groupware Server

**Groupware Server** is a software that gives users the ability to work together. Not hindered by location, use the Internet or intranet of companies and organizations and operate together in a virtual atmosphere.

Picture 7 of What is a server? Some criteria for choosing to buy a reputable server

## Server role

**The server** plays the role of **storing, providing and processing data** and then delivering it to workstations continuously, without interruption 24/7 for users or an organization via LAN or Internet.

Besides, the server also stores information and manages it, and helps the business's software operate continuously. Businesses or organizations do not need to spend too much money to optimize workstations, just investing in hardware for the server system is enough.

In the case of individuals, the server also performs the same task as a storage unit, helping the system's data operate smoothly.

Server	Role
<b>Physical server (Dedicated server)</b>	Plays a role in ensuring the stability and safety of the server and providing backup for factors such as resources and power sources.
<b>Virtual Server (VPS – Virtual Private Server)</b>	Capable of containing many separate hosting units, helping to optimize system development of Mail Server, Web Server or Backup - Storage Server.
<b>Cloud Server</b>	Can host websites with large traffic but still ensure stability.
<b>Database server</b>	Maintain and share data of a system through many different forms.
<b>File server</b>	Responsible for storing and managing data files for other computers in the same network system that are allowed to access the files.

<b>Server</b>	<b>Role</b>
<b>Mail server</b>	Mail server supports the process of sending and receiving mail quickly and stably. Comes with outstanding backup capabilities. Therefore, it plays an important role in the transaction process, management and internal communication,.
<b>Application server</b>	With Application server, users in the same system are allowed to use it without having to set up an additional copy on the computer.
<b>Audio/Video server</b>	Deliver multimedia to a website that displays the media to the user.
<b>Chat server</b>	Used in real-time data exchange.
<b>Fax server</b>	Its role is to receive documents from users, convert them to faxes and send them, as well as receive faxes and store incoming documents or transfer them to users.
<b>FTP server</b>	FTP server has the role of providing storage space and sharing data on the internet environment.
<b>Web server</b>	A place used to store websites, a web server is capable of forming a global wide area network (world wide web). In addition, each website is allowed to have one or more Web servers.
<b>Proxy server</b>	Proxy servers provide different functions, ensuring privacy and security based on user needs or organizational and business policies.
<b>Telnet server</b>	This type of server has the role of providing the ability to log in to the host computer and handle tasks like the user is operating on a remotely controlled computer.
<b>List servers</b>	Supports better mailing list management. The server can be an open exchange and interaction for everyone. Or a one-way list that delivers announcements, newsletters or promotional content.
<b>IRC server</b>	IRC server allows users to connect with each other to the IRC network to exchange, discuss, and chat in real-time.
<b>News server</b>	New Server serves as a resource for many public newsgroups, easily accessible via the USENET news network.
<b>Groupware server</b>	Groupware server allows users to easily work together in any location or location.

## **Operating model of the server system**

Most servers will operate in the **Client - Server** model . The client is connected to the server using a network infrastructure using the IP (Internet Protocol) protocol, a server operates similar to a socket listener.

Thanks to the network or internet, servers can provide necessary services to users or individuals in an organization. At some point, an alternative model was the peer-to-peer network, in which computers were allowed to operate as either Server or Client.

## **The impact of servers on business and life**

Below is the impact of servers on business and life:

### **1. The impact of the server on business**

At the present time, 4.0 technology is all through business on the internet environment. In particular, we cannot ignore the website, this is one of the elements that plays an important role in selling and providing products and services to buyers.

Behind websites is always a hosting service on a server. It directly affects customers' network access and operations. A quality server will help businesses and brands improve user experience on the website.

Picture 8 of What is a server? Some criteria for choosing to buy a reputable server

## 2. The impact of the server on life

For an easy-to-understand example, if you search for information about '**cheap laptop**' on Google, a series of results with this keyword will appear densely. In just a very short time, there have been countless visits to Google but the results always appear very quickly and accurately.

Proving that behind Google is a huge server, fast data retrieval helps quickly meet needs and improve user experience.

## Benefits of renting a server versus buying a server

Currently, from individuals to large and small business organizations, all use server services to store data, information, and backup for work for benefits such as:

1. **Deploy and set up servers easily:** Compared to buying and configuring servers yourself, which is costly and time-consuming, etc., renting servers from server service providers will be more reasonable. Users will be supported by the server service for everything without having to worry much.
2. **Easy upgrade and scale expansion:** Upgrading and expanding the scale of the system will be faster and simpler than ever. The supplier will advise and guide users on technical and cost issues.
3. **Budget control:** Instead of having to spend time and manpower to manage the entire server, when registering for services with providers, users only need to pay the pre-agreed periodic cost. This helps users control their budget and finances.

Picture 9 of What is a server? Some criteria for choosing to buy a reputable server

## Some criteria for choosing to buy a server

If you are in need or planning to buy a server, users should pay attention to the following basic points:

### 1. About cost

In case of individuals or small and medium-sized business startups, users should prioritize choosing hosting or VPS packages. Both cost-effective and easy to manage.

### 2. In terms of performance

For those who need high performance and fast speed, a separate **physical server (Dedicated Server)** is a reasonable choice. Dedicated Server will avoid problems such as: Congestion and risks compared to using a server with the same resources (also known as Shared Hosting).

### **3. Flexibility and extensive upgrades**

For cases where performance is not important but just needs a flexible server or needs to expand, VPS is the perfect choice. Because VPS has the flexibility to switch and upgrade easily, it is possible to accommodate 'huge' traffic.

### **4. Security**

On the market, currently some server services have focused on integrating anti-DDoS attack services. Hosting packages are also supported similarly.

## **Epilogue**

Hopefully, after the above article, you have a clear understanding of what a server is as well as the criteria to help choose a quality server with stable performance. Share the article if you find it interesting and useful.

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