

# What is Dedicated Server? Should you choose VPS or Dedicated Server?

Choosing a hosting solution for your business plays an important role in the delivery of your content online. Without a reliable web hosting service, your ability to reach your audience online will be limited, even risky.

So the server that you choose with must match the size and business needs of the business. Before learning what a Dedicated Server is, you should learn an overview of the following issues right away!

## What is VPS and Dedicated Server?

There are many types of servers to choose from, and it can be quite complicated if you are not very tech-savvy. However, in this article, Semtek Co., Ltd will provide explanations to help you understand and have the best view and choose the optimal solution for your business.

### 1. What is VPS (Virtual Private Server)?

VPS stands for Virtual Private Server. A VPS is like a shared host, that is, there are many VPSs placed on the same physical server, serving the needs of large websites, but the price of buying VPS is higher than that of a shared host. The cost of a VPS virtual server is higher than that of a shared host because shared host packages are all sharing resources from a physical server with very low allowed resources.

For example, if you have a server with 6 cores/12 threads, but will create 3 different VPS with parameters of 2 cores/4 threads and that VPS package will create 50 shared host packages using the same resources from 2 cores/4 threads. This means that with 2 cores/4 threads, you will split between different shared host packages and the resources from this configuration will be shared with each other, using no more than the allowed processing capacity of 2 cores/ 4 threads.

### 2. What is Dedicated Server?

Dedicated server is a type of hosting on the internet where users can rent an entire server, not sharing it with anyone. Dedicated servers are usually located in the data server center and are provided with redundancy features in terms of resources, power, etc. to ensure the safety of the server.

### 3. Which choice for your business between: VPS and Dedicated Server?

In fact, both are servers, and perform similar functions. They are connected to a computer network or the internet, have a static IP, have high processing capacity and on which people install software to serve other computers to access to request services. and resources.

The data protection of both VPS and Dedicated Server is extremely effective through optimized and streamlined configurations, firewalls, tiered data access policies, and strong relationships with clients. security expert.

Both have access to exponentially more resources. This includes storage, RAM, bandwidth, email, nameserver assets, and more.

## **Compare VPS with Dedicated Server**

To find the ultimate web hosting solution, we need to prioritize security, scalability, efficient data delivery, and reliable hardware resources. Then we can start looking at the advantages and differences between VPS and Dedicated Server.

Picture 1 of What is Dedicated Server? Should you choose VPS or Dedicated Server?

### **1. Advantages of VPS**

#### **Cost**

Hosting on a virtual private server (VPS) is usually a cheaper solution than a dedicated server (Dedicated Server). Because there are many customers on one physical space and it is possible to split the cost of hardware operations among everyone. Basically, for VPS the customer pays for a small portion of the server but still has access to the full performance of the entire hardware.

#### **Ability of extension**

Virtual servers are much more flexible than dedicated servers. With a client using only a fraction of the resources available on a physical server, those resources can be allocated without any changes to the hardware.

A dedicated server also provides customers with access to the full resource base of the hardware. However, scaling resources requires adding locations or modules to the physical server and can be costly and time consuming.

### **2. Advantages of Dedicated Server**

#### **Resources**

The number one reason that most companies choose a dedicated server (Dedicated Server) is to take advantage of dedicated, adequate resources. No virtual server can match the top dedicated servers when it comes to CPU power, memory, processing resource-intensive software modules, storage space, and attributes based on resources. on other hardware.

#### **Security**

A dedicated server is considered more secure than a virtual private server when it comes to malicious attacks from an external source. With only a single client on the server, efficiently managed resources help prevent potential security breaches.

You can also manage software installations and other digital expansions with greater efficiency. This reduces the possibility of viruses or other malicious attacks from using trusted software.

## **Speed**

A dedicated environment like Dedicated Server is a speed advantage. In a dedicated environment, Dedicated Server allows data transmission without any latency. This results in faster website load times and early requested response actions.

## **Configure & Customize**

A dedicated server (Dedicated Server) will allow webmasters to configure the server as they wish. There are configurations that are almost impossible when it comes to VPS environments. For example, you obviously cannot install anything that would compromise the security or integrity of other clients on the server. You also have less space in a VPS environment to install large-scale software packages. Due to memory and memory allocation constraints, you may not be able to move in a full stack, depending on how big it is.

## **Management**

If you need to reconfigure or maintain, dedicated hosting environments often prove to be a much more efficient service. With a managed solution, server technicians and software engineers in the dedicated space don't have to wade through competing data streams to solve your problem.

## **So VPS and Dedicated Server: Which should you choose?**

A virtual private server and a dedicated server are clear differences. Which one is perfect for your business depends on specific criteria and specifications.

For growing businesses, small and medium sized companies with steady web traffic can learn about VPS environments. Large enterprise-class companies will often be better suited for a dedicated server.

Picture 2 of What is Dedicated Server? Should you choose VPS or Dedicated Server?

## **Check and answer the questions:**

1. Do you have staff to handle ongoing maintenance?
2. Can you upgrade the internal hardware?
3. Is your company looking to scale?
4. Have you quantified this growth over the next 5 to 10 years?

Depending on your answer, you may have a choice for your business.

You should choose a foundation for now and five years from now. One aspect many companies overlook is the ability to scale. If you invest in a dedicated server, you will always pay for the same amount of resources. It might be a waste of money if your needs decrease over time.

The server world is ever-changing and constantly evolving. With increasing technology as well as an increasing number of security threats, it is impossible to prepare for everything. The storage solutions you choose are the 'backbone' of the digital operations of your business. So compare prices only after your security, flexibility and configuration needs for the company are covered.

Currently, HostZealot Hostings provides high quality web hosting to both corporate and private customers since 2009. **HostZealot** team has extensive experience in hosting and managing servers for business projects. Online businesses vary and in each particular case, our work is appreciated. Here are the advantages when you use the host service at HostZealot:

1. **Great pricing:** Offers only the best hosting at a reasonable price based on modern, high-performance equipment.
2. **99.9% Uptime:** We guarantee 99.9% server uptime, so we provide constant access to our clients' online projects.
3. **Quick Configuration:** Order a dedicated server with quick configuration that allows you to set up a reliable and high-performance environment in half an hour.
4. **No contract:** It also means you can cancel your service simply by not extending it. In this case, your server or web server will automatically expire on the expiration date.
5. **Easy Upgrades:** Configuration changes connected to server upgrades do not result in data loss or unexpected interruptions in hardware operations. Moreover, you won't even have to change your IP address.
6. **Enterprise Servers:** No desktop solutions, only real modern server hardware from SuperMicro, HP, Dell, Juniper, Cisco.

## Is dedicated server necessary for high traffic web?

One of the things that bloggers, and internet-marketers have the hardest time deciding, is choosing a hosting plan. The big question is how to decide whether to buy shared hosting or dedicated hosting?

### 1. Before we jump to conclusions, let's start learning about the following 2 issues

#### Shared hosting:

Small businesses and new blogs mostly run on shared hosting. Due to the cost is suitable and quite low. And this hosting also includes the bandwidth and storage to handle the traffic for those websites.

#### Dedicated hosting:

1. If your blog or business is getting around 100K hits per day. And the number of visitors is growing at a fast rate. You are better off moving your website from shared hosting to dedicated hosting
2. When your blog gets a huge traffic. If your blog or website faces a lot of downtime problems. This not only reduces traffic, but it also reduces the credibility of your blog.

### 2. Why you need a dedicated server for your high-traffic website

#### Faster loading times

Users are those who do not have time for a web page to exceed 5 seconds. Otherwise visitors will not like to visit your site again Unless your page is in the top within 1 or 2 seconds. When you rent a server server you will have not faced such problems.

## **Download server**

When your website is getting huge traffic every day. It's your shared hosting server that's carrying out some very large payloads. And in the end what happens is your server slows down, affecting quite a few things. However, when you use dedicated hosting this type of problem is easily remedied.

Picture 3 of What is Dedicated Server? Should you choose VPS or Dedicated Server?

## **Guard**

If you are concerned about your online business and its reliability. Instead of shared hosting, you need to go with dedicated hosting. The reason is quite simple. When you use shared hosting, the company will ensure the security of your website. But if there is a violation you will not be able to control yourself in the best way. However, when you choose a dedicated server (dedicated hosting) for your website. You will be able to customize and have total control over the security of your website. So in short, you will be responsible for the security of the website.

## **Conclude**

Overall, dedicated hosting seems to be more secure and reliable. Although it is more expensive than shared hosting. But when it comes to handling heavy traffic and traffic, dedicated hosting seems to be a much better option.

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