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Prepare a comparative study of specifications of desktop and server class computers.

**Desktop Computers**

People buy Personal computers depending on their needs and their price range. The world of technology is rapidly growing and PCs are coming with different novel features to attract customers. Companies work hard to succeed in this market and to make their products preferable. But Microsoft and Intel have acquired a strong place in the market.

Personal computers are designed for normal purposes and are not suitable for high-end operations. They are the best choice for students for academic purposes. Initially, computers were designed to be operated by one technician who is trained to do it. But later the need for computers among common people increased.

So computers were made in large numbers so that they can be owned and used by everyone. Personal computers were used by technicians. People whose jobs require computerized works also started purchasing personal computers. But as time passed owning a computer became very common. Video gaming and other technological advancements increased the demand for computers.

Now personal computers are used for common purposes like video conferencing, sending emails, storing data, study purposes, and for other purposes. Personal computers are now more advanced they are connected to various other devices and can be used to control those devices like smart TVs. Since the demand for personal computers increased it caused the generation of more electronic wastes.

## **Server Computers**

Servers are now used by companies for providing uninterrupted experiences to their customers. The devices that are linked to a server are called clients. Servers are used to share resources or carry out computational tasks for the client devices connected to them. Clients are normal devices like mobile phones and PCs. Servers can connect with many clients.

A client device can make a connection with a server by sending a request to it. The server process this request and respond. File servers are used in transfer and web servers can be used in any computer device. There are various uses of a server in computing.

The major function is to share or transfer resources. Servers are the backbone of today's innovation and modernization.

Servers are essential in every application we use on our mobile phones and laptops. Database servers are crucial for maintaining large databases. Spreadsheets use this type of server. Gaming servers let several gamers use different devices to play the same multiplayer games. Email servers help in faster and better communication. Web servers help the websites work. The client in this case is the device with a browser.

Servers of larger search engines and websites like Google and [Amazon](https://www.amazon.com) should be run with no interruptions. These servers are maintained in specialized data centers. Data centers are provided with an uninterrupted power supply, security, and a good internet source. Heat generation is a major drawback of server rooms. So they are air-conditioned and data centers are placed near river banks.

## **Main Differences Between Desktop Computer and Server Computer**

1. PC is a device used by normal people for personal uses but, a server is a program that connects a device with another source

2. PC is common and used by most people. Servers for large databases are maintained in specialized data houses
3. PC is simple to work with and are made for normal man usage while servers are complex to deal with
4. PC does not involve very advanced technology but, servers are developed with highly advanced technology
5. PC is used by people to store data and to send it to others while the server paves the portal to send this data.

<b>Parameters of Comparison</b>	<b>Desktop</b>	<b>Server</b>
Type	Hardware	Hardware or Software
Usage time	Personal computers are used only when required and then <a href="#">shut down</a>	Servers are kept working without interruptions
Complexity	PC is less complex to work with	The server is complex and involves highly advanced technology
Storage	Less compared to the server. Ranges from few GB to TB	Large storage from Terabytes to Petabytes
Example	Desktop, Laptop, workstation, Smartphones	Web server, Proxy server, Database server, etc