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NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 2

Aim

Prepare a comparative study of specification of desktop and server class computers

Procedure

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.

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.

PC vs Server

The main difference between PC and server is that PC is the device used for personal uses and to access the internet. While a server is the part of the computer that takes care of the network resources. The server helps the computer to connect to the internet but the PC is the device that contains the server.

A PC is used by normal people for their day-to-day activities. It is not suitable for experts or people working in the software field for complex programming. The size, ability, storage, and price of PCs differ from one another. Initially, PC was designed for common people to use and specialized programs cannot be run but, nowadays PC's are advanced and support any type of work.

A server can either be Software or Hardware. A server is commonly the part of a computer that facilitates the sharing of data and resources to another computer or any device. During early times, mainframe computers were used as servers. Minicomputers were also used in some cases. During this time these servers carried out all the work.

Parameters of computer	Desktop	Server Class Computer
Type	Hardware	Hardware or Software
Usage time	Personal computers are used only when required and then shut down	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