



GigaKaf Technologies

Benefits of a Network Environment

So, we have all heard about computer networking, and we are familiar with such terms such as LAN (Local Area Network), Ethernet, and others. But what exactly is a network, and how can it be beneficial to have one implemented in your business?

In essence, a network is a way of interconnecting a group of computers that are usually close to one another. The main purpose of creating a network is to simplify and allow the flow of information and resources among different computers and their users. The first known computer network was created to benefit the United States Department of Defense in the late 1960's so that information could be exchanged in an easier, quicker, and perhaps more secretive manner.

There are three main methods in which computers are connected today: through Ethernet, which is a physical cable that attaches to each computer, which involves the use of bridges, routers, hubs, and switches; fiber-optics, which allow for greater distances between computers, with quicker communication between them; and one of the most popular, the Wireless LAN connection, which involves only a small router and no wires at all, as the name suggests. Local Areas Networks increase efficiency exponentially in an office environment. A LAN system can provide the users with an easy to use central repository of all files - increasing security and making it easier to collaborate on projects. Besides file sharing, a LAN also enables a user to share another computers CDROM, floppy drive or other resource, just as if the original computer had its own CDROM or other resource.

Advantages of Having a Network

Reduced Costs

It wasn't long ago that each machine required it's own additional peripherals (printers, modems, etc.). With a network environment you can afford to purchase a higher quality single unit and share it among the other computers in the network. Another benefit of networking comes from proxy servers, which allow networks to provide low-cost Internet access to all computers through a single entry point.

Data Integrity

Important data can easily become corrupt when transferred between groups of individuals. Consider the scenario called "Sneaker Net" where data is transferred via floppy disks. With multiple copies on different disks it is impossible to determine the integrity of such data. Network environments allow for you to implement centralized data management, which places data on a server that is capable of granting multiple access to it. The server then takes on the responsibility of ensuring data integrity. Centralized management also plays a key role in ensuring that critical data gets backed-up.

Security

Network operating systems allow for strict control over the level of access granted. Permissions on systems range from large groups to specific individuals. Network operating systems also provide monitoring software which can notify administrators when unsuccessful attempts are made and can even be set to "lock-out" questionable accounts. Firewalls can also provide added security to networks which have machines that are accessible over the Internet. Combined with virus protection software, firewalls offer the best defence against unauthorized intrusion and computer virus attacks from the Internet.

Backup

Even with centralized management in place and the best security restrictions, mistakes will happen and systems fail. With a regimented schedule for back-up, your data can be stored and retrieved later in the event that a catastrophe occurs. With the addition of off-site storage your critical data will be protected in the event of fire or any other disaster that might level your building.



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Contact Us...

All in all, an office computer network provides many benefits and conveniences to its users as it helps in streamlining communication among all workers.

We have the skill and the technology to meet to meet your networking needs.

Our Contact Details

GigaKaf Technologies

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