Article published on March 28th 2012 | Internet

With the vast development in technology over the years, luckily we have a world of fortunes to zest. Literally, all the electronic equipments and gadgets have made our lives easier and faster many folds. Talking about technology, one word that immediately strikes our minds is â€˜Internetâ€™. These days, the number of new Internet users has been increasing drastically. However, apart from using the mouse and keyboard, there are other important things that are becoming very important for the computer users. There are many external devices like pen drive, headset, digital camera, and a lot more that we plug in to the CPU of the system. Though these are simple devices that we all are quite familiar with, there are other complex components like switches, router, and bridges as well. Note than router is the commonest and one of the most important components among them.

What is a router?

A router is a three-layered network device that enables the transfer of data from one segment to another, from the header to the tail and vice-versa. It makes use of the free path to transfer the data packets between segments. Routers can also connect segments in the network that employ different protocols. Moreover, the routers make it possible for all the users in the network share the same Internet or WAN (Wide Area Access) connection. The main advantage of the router is it aids in enhanced network performance which is done by:

Partitioning the network and creating more space for the broadcast domains

Squeezing out the bandwidth competition

Broadcasts not transferred to other segments

Improves the security by making use of Access Lists

Before installing the wireless/wired network, make sure that the router is installed properly. Note that the networks will have certain specifications. Thus, if you want to make the router function, then you have to change the default settings. Thus, you need to have a proper router configuration for the network to function well. If you have any queries about adjusting the router configuration then you may go through the instructions given in the manual that you will get when you purchase the router. Some of the notable features of router are accessibility to both wired and wireless networks, firewall, Internet sharing to all users in the network, and security. If you wish to customize any of the features mentioned above, then you can do so by adjusting the router settings. Moreover, note that, each network requires different router settings.

Tips to fix the router to get the maximum network performance:

â€¢ It is always beneficial to fix the router in the central network location

â€¢ Connect the Internet modem to the network if necessary

â€¢ Change the router settings according to the network requirements

â€¢ Finally, make sure that all the systems in the network are connected/plugged properly

Among the various types of routers available, wireless routers are the most preferred ones, mainly

for home usage. They are easy to be used and maintained. In a large network that like in a corporate, the wired and wireless routers can be merged together and a common Internet connection can be shared by all the users in the network.

Driver related issues are also very common in a network. So, if you come across any such issues, you can solve them by simply uninstalling the driver and reinstalling it back. If you come across any difficulty, you can always get timely assistance from the technical support team via online chat. Or, you may take some time and go through a few books that explain in detail about the routers and gain some knowledge from them.

Article Source:
http://www.articleside.com/internet-articles/basics-of-router-and-tips-to-increase-the-network-performance.htm - Article Side

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Cody is a freelance writer and blogger. He writes on a wide range of topics encompassing entertainment, technology, environment, health, and self improvement. He likes to create awareness about the importance of a computer network and tips on how to change the Ra Router Configuration.

Article Keywords:
Router Configuration, Router, Increase Network Performance

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