

Reflection Paper on Connecting Devices to a Home Gateway and Monitoring Your Network

In this activity, the students were able to connect devices to a home gateway while monitoring the network in a single household. This activity explained and taught the basics of connecting devices to a network which will be helpful to everyone when they are planning to set-up their own home networks. Understanding basic networking in real-world scenarios is also essential as it enables efficient troubleshooting, enhances cybersecurity, and optimizes internet performance. It supports seamless collaboration through cloud services, VPNs, and VoIP, while also playing a key role in IoT and smart devices. Networking knowledge benefits career growth across various industries and helps individuals protect their online privacy. In an increasingly connected world, these skills are crucial for both personal and professional success.

The activity included configuration of devices so that connection to the home gateway will be successful. Some of the configuration activities include changing the network adapters of the devices, changing of display names to avoid confusion between devices and configuring the home gateway. These steps are essential so that the network will be functional and there will be no to minimal traffic within the network. In my case, there were no challenges faced during the activity because the steps were very clear and straightforward, which made it easier for the activity to be a success. One of the main skills I learned is that some functions will only work if network adapters in a device are changed. Another concept that I learned is that it is important to configure routers, gateways, and devices in order to have no zero to minimal traffic in a network.

In conclusion, this activity reinforces the importance of basic networking skills. By successfully connecting devices to home gateway and making necessary configurations, students gained practical knowledge that will be useful for troubleshooting, optimizing network performance, and ensuring seamless connectivity. The activity highlighted key concepts such as network adapter settings and device configurations, which are essential for maintaining an efficient and secure network. Overall, this experience emphasized the significance of networking in both personal and professional settings, preparing students for real-world applications.