Lab – My Local Network

1. Objectives

* Record all of different network attached devices in your home or classroom.
* Investigate how each device connects to the network to send and receive information.
* Create a diagram showing the topology of your network.
* Label each device with its function within the network.

1. Background

The path that a message takes from its source to destination can be as simple as a single cable connecting one computer to another or as complex as a network that literally spans the globe. The network infrastructure contains three categories of hardware components:

* End devices
* Intermediary network devices
* Network media

Take a close look at the network you have at home or school. Record the network and end-user devices that are connected on the local network.

1. Sample

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| --- | --- | --- | --- | --- |
| Manufacturer | Device | Location | Connection | Media |
| Apple | iPhone | Mobile | Wireless | WiFi & cell phone |
| Samsung | Galaxy Smart Phone | Mobile | Wireless | WiFi & cell phone |
| Cisco | Cable Modem | Home office | Wired | Cable TV coaxial cable and Ethernet cable. |
| Linksys | Wireless Router | Home office | Wired | Ethernet cable. |
| HP | Printer/Scanner | Home office | Wireless | WiFi |
| Apple | MacBook Air | Mikayla’s Room | Wireless | WiFi |
| Beats by Dre | Headphones | My Room | Wireless | Bluetooth |
| Microsoft | Xbox | My Room | Wired | Ethernet Cable |

Your Network

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Manufacturer | Device | Location | Connection | Media |
| **Apple** | iPhone | Mobile | Wireless | WiFi & cellphone |
| **Viettel** | WiFi Router | Home | Wired | Ethernet cable |
| **Hp** | Laptop | My Room | Wireless | WiFi |
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Continue the list on a separate page if necessary.

1. Reflection
   1. Are there other electronic devices that are not connected to the local network that share information or resources? What would be the benefit of having these devices online?

There are many electronic devices that are not connected to the local network that share information or resources. These devices connect to the Internet. With these devices, we can communicate with each other through the Internet to get the information we need.

* 1. Which type of connectivity is used most frequently in your local network, wired or wireless?

Wireless.

* 1. Draw a diagram of your local network. Label each device with a name and location.

iPhone

**WiFi Router**