

Lab - My Local Network

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Objectives

- Record all the 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.

Background / Scenario

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

Instructions

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.

Your Local Network

Manufacturer	Device	Location	Connection	Media
Samsung	Galaxy Smartphone	Berna's room	Wireless	WiFi & Cellphone
Ugreen	Headphones	Berna's room	Wireless	Bluetooth
Attack Shark	Mouse	Berna's room	Wireless	Bluetooth
MSI	Laptop	Berna's room	Wireless	WiFi
Lenovo	Laptop	Francis' room	Wireless	WiFi
Globe	Router	Living room	Wired	Ethernet Cable

Continue the list on a separate page if necessary.

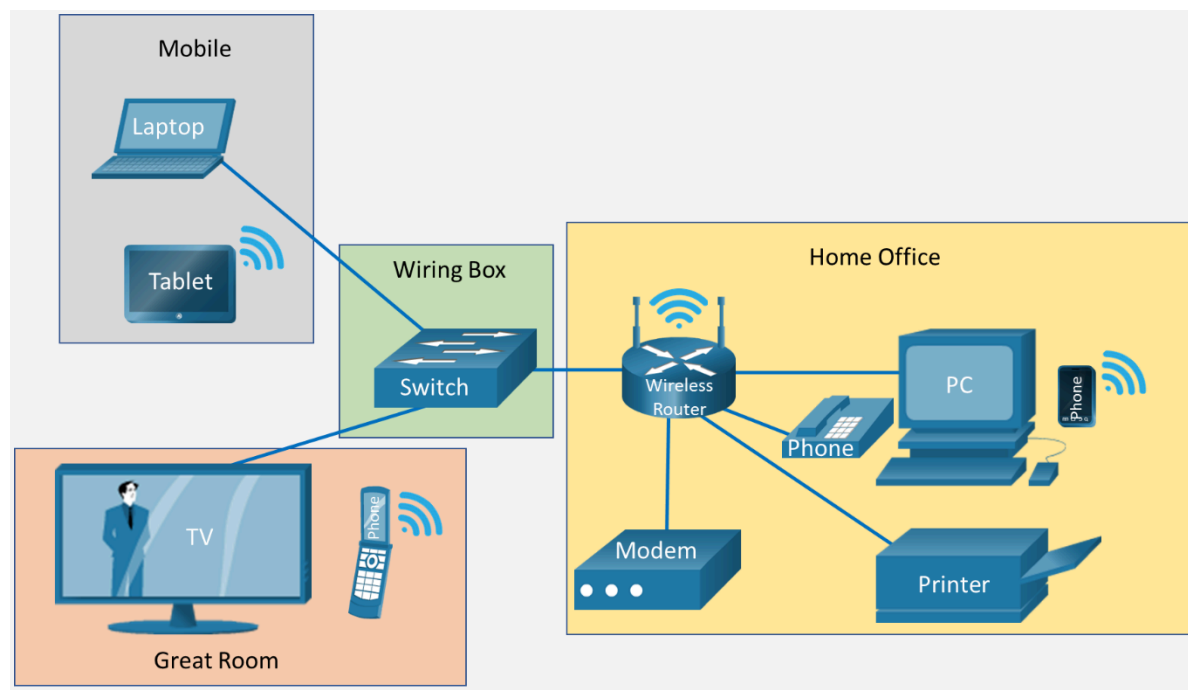
Reflection

1. Are there other electronic devices that are not connected to the local network to share information or resources? What would be the benefit of having these devices online?
2. Which type of connectivity is used most frequently in your local network, wired or wireless?
3. Draw a diagram of your local network. Label each device with a name and location.
4. Take an actual photo of the devices identified on your local network.

Sample Answer

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

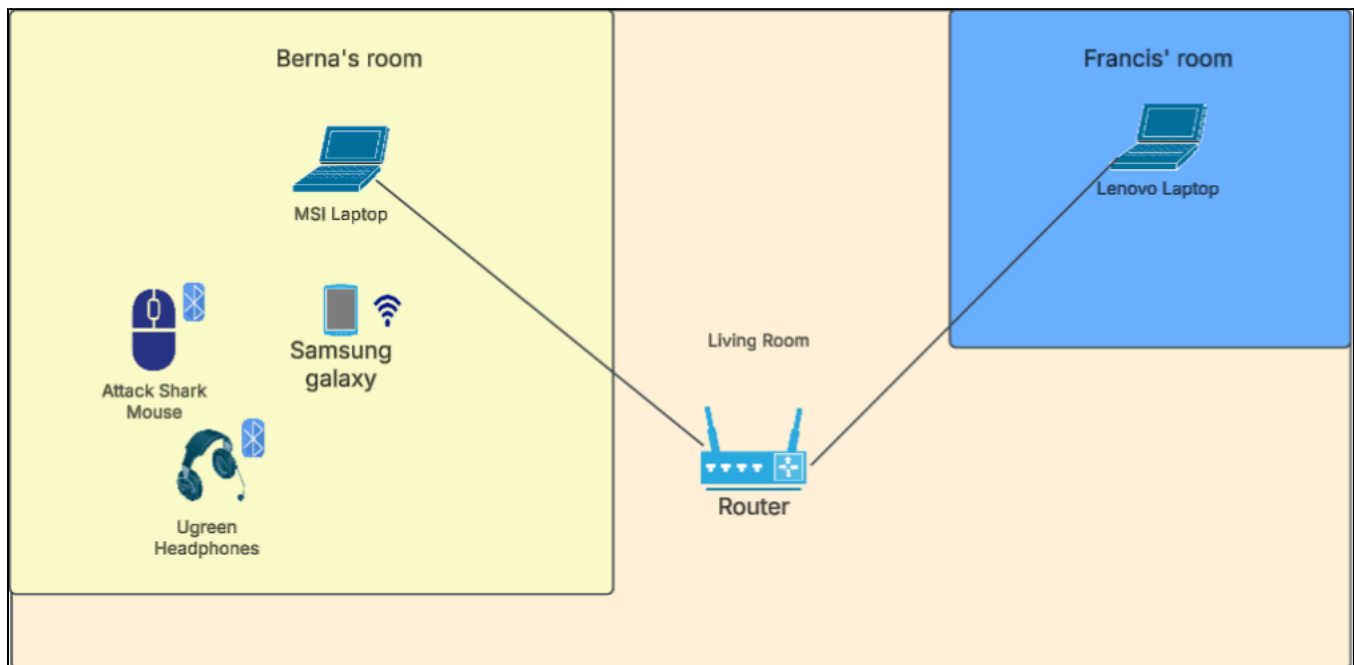
Reflection Question No. 3



Reflection

1. Are there other electronic devices that are not connected to the local network to share information or resources? What would be the benefit of having these devices online?
 - Since I mainly use the wireless headphones and mouse, having it connected to the network will be beneficial for me since it can easily enhance my experience. It would be easy to sync them online and have them set out to my preference (e.g the dpi settings, audio output configuration, battery status) . Tracking them would be also a big help since I always misplace things especially when I go outside
2. Which type of connectivity is used most frequently in your local network, wired or wireless?
 - The frequently used type of connectivity in our local network is wireless.
3. Draw a diagram of your local network. Label each device with a name and location.
4. Take an actual photo of the devices identified on your local network.

Diagram



Actual Device Photos

