Home Networking

Steve Hanlon - Lot 592

All the Networking Parts
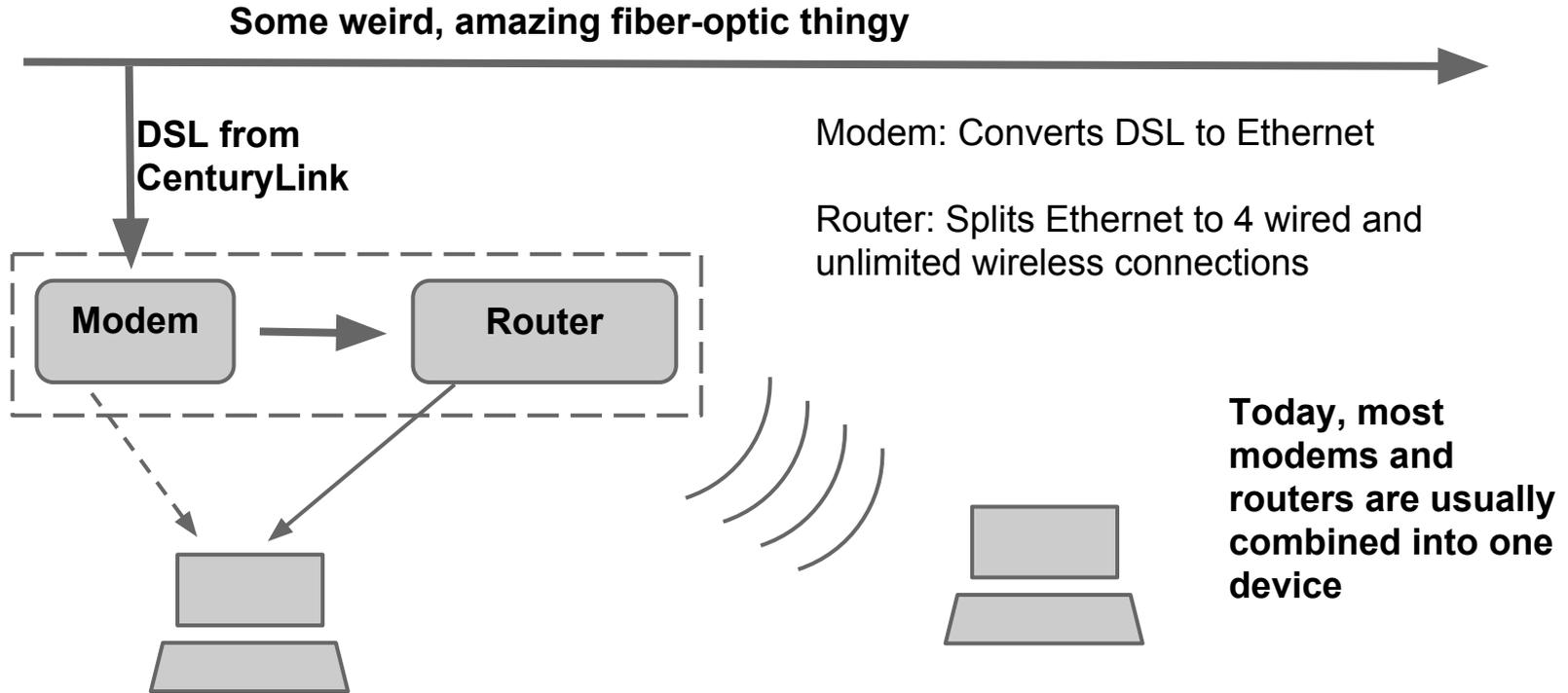
Router/Hotspot Parts

Verizon 4G Cell Service
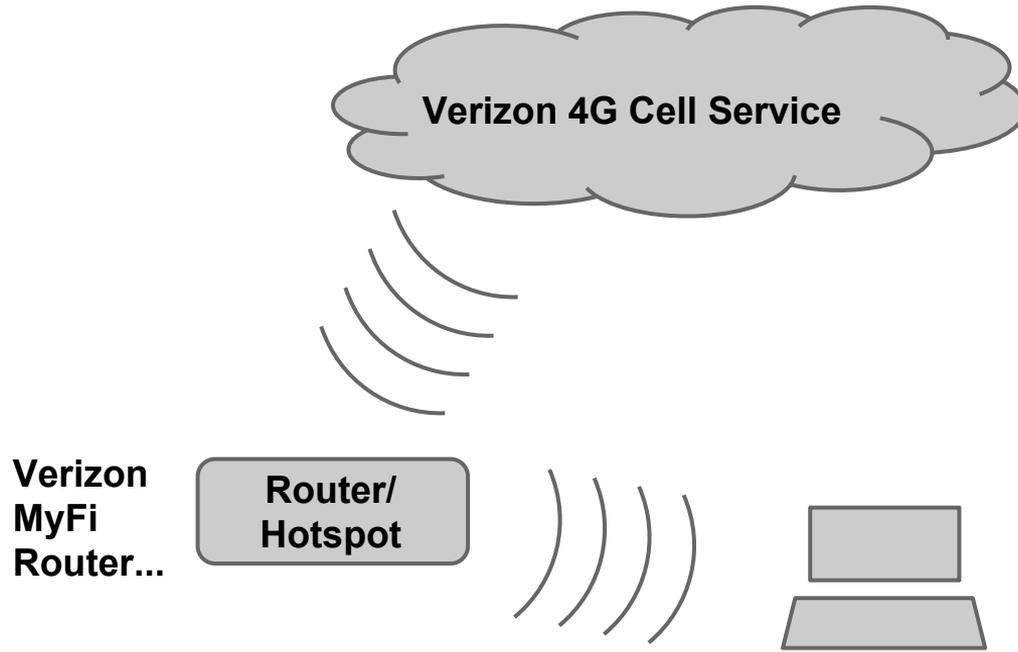
Router/Hotspot: Converts 4G cell service to wireless Ethernet

Laptop: Has wireless Ethernet radio built-in

Verizon MyFi Router...

Router/ Hotspot

Think of a hotspot as a cellphone with very limited features!

WiFi Router Basics

Your router creates a little wired and wireless network that you own.

Each network ***must*** have a name

Known as the SSID (mine is JED-NET)

Every router will have a default name
(ex: CenturyLink1342 for PrismTV)

If you have a NEW router or PrismTV

New routers should have WPA2 pre-selected and have the WPA2 key (or router password) on a **label on the bottom**.

PrismTV routers also have the admin password on the bottom. If not you must create one. Otherwise **this is a serious security issue**.

Sample Bottom Label

the bottom of your modem

OR

the bottom of your modem

ZyXEL Communications Corporation

Model Number :

SSID:	CenturyLink1234
Security Type:	WPA-WPA2-Personal
Key/Passphrase:	a7aa9245febba6
WPS PIN:	60027764
Modem GUI Address:	192.168.0.1
Admin Username:	admin
Admin Password:	f4B4fb6c

CenturyLink™

Serial Number: S120Y23078881

MAC Address: B0:B2:DC:25:20:D9

802.11n WiFi Router

Actiontec or ZyXEL

Example Model #

H/W: 2A
F/W: QAPK01-3.60.3.0.9.0
Serial Number:

Tested to Comply with FCC Standards
FOR HOME OR OFFICE USE
This Product Complies with 47CFR Part 68
US: LNQDL03BPK5000
Contains FCC ID: LNQPK5000

LISTED
I.T.E.
E212044

Made in China

CPAA9222901566

Network Name (SSID):	myqwest0241
Security Type:	WPA2-Personal
Key/passphrase:	FFFFAE59FFFFE96A0006F29A9C
WPS PIN:	68021573

WAN MAC: 00247B007621

How do I change the Router?

Easy. Use your browser!!!

Router Admin Basics

Every router has a little website built into it

This website can be accessed by you to make changes to the router setup

Some changes are very important

Router Administration

Look at the router's manual but it will likely be

http://192.168.1.1 or (Linksys)

http://192.168.0.1 or (PrismTV)

http://10.0.0.1 (Netgear)

Router Admin Basics

You only have **two or three** jobs

1. Make the router's wireless work encrypted, and set a network/router password
2. Change the admin password

    a.   Ideally to the encryption password so you won't forget it

3. (Optional) Change the SSID so you can recognize it

Router Security Basics

Each router has a choice of wireless encryption
    WPA2, WPA, WEP

    Always choose WPA2

Choose an encryption key (password) for WPA2 (the router)

Tape it to the bottom of the router. !important!

Router Admin (cont)

Every routers administration will look different

Security > Change Password

　　change admin username/password

Wireless > Basic

　　to set SSID

Wireless > Security

　　to set WPA2 and router password

Connecting your PC

Right click on the wireless icon
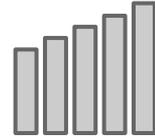
Click on your network name

Enter your WPA2 key (password)

Make sure to check the "Connect Automatically"

If you mess up…

- Every router has a reset button
- Usually it's in a hole on the back
- Pressing it (with a paperclip) will reset it back to factory new and you can start all over again.

Other Wireless Stuff

- OK, so now you have your PCs, smartphones and tablets connected to your wireless network.
- What about my wireless printer?
- Now we need to learn about one more router feature - WPS (WiFi Protected Setup)

Wireless Printers

Printers can have 3-4 methods for connecting wirelessly

The problem is usually because the printer doesn't have a screen or a keyboard for selecting a network and entering a password

Wireless Printers (cont)

Most new printers support WPS

Here's how it works:

1. you find the printer's wireless setup and initiate a (2 minute) WPS scan
2. you run over to the router and push the WPS button

If this doesn't work… call me… sigh...