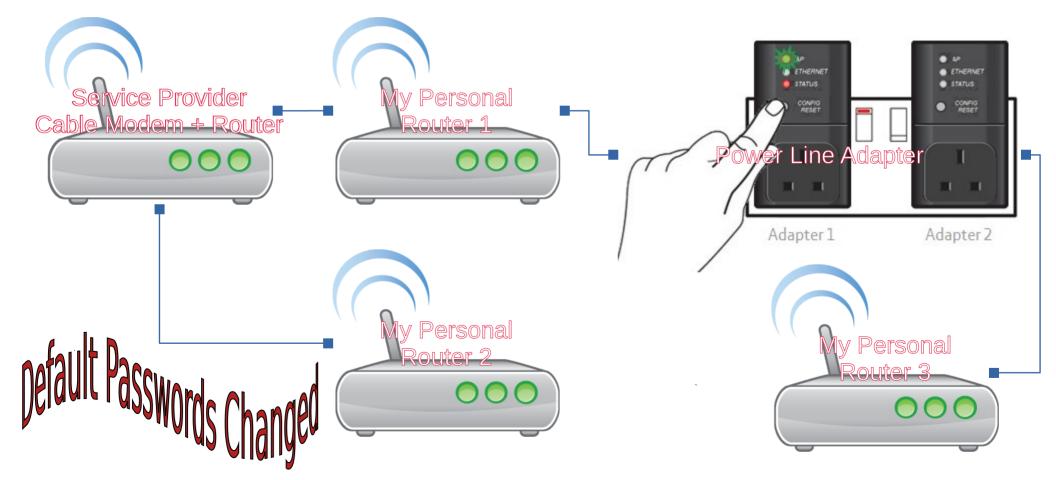
Home Networks

How I set up my home network Is it not adequately secured?

Overview



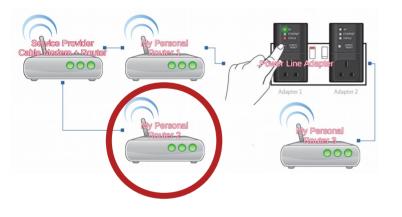
Service Provider — Cable Modem / Router



- Location Basement
- DHCP Server Enabled

- Disabled Wifi both 2.4 Ghz and 5 Ghz
- Enabled Firewall used the 'minimum' setting i.e. outgoing traffic isn't blocked, unsolicited incoming traffic is blocked
- 4 Ethernet Ports
 - > 2 for personal routers
 - > 2 for Voip Phones

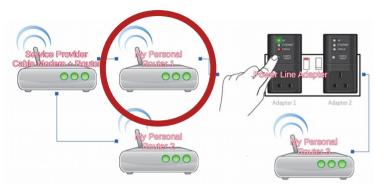
My Personal Router 2 - Gaming PC / Guests



- Location Basement
- Router Linksys WRT 54G (really old) ~ DD-WRT
- DHCP Server Enabled

- Independent Subnet
- Gaming PC Connected to it
- Wifi enabled WPA Encryption ~ for Guests or when Home Wifi malfunctions
- Set to re-start once a week at 2:30 AM
- Firewall Enabled SPI Firewall basic settings (e.g. Blocks anonymous WAN requests)
- Why QOS wasn't a preferred Option
 - When QOS was used buffering was still an issue
 - Gaming traffic was slowing down everyone else's browsing experience
 - Having a separate router solved both issues ~ bandwidth wasn't an issue

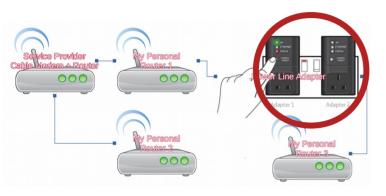
My Personal Router 1 – Main Router



- Location Basement
- Router Linksys WRT 1200 (not that old) ~ DD-WRT
- DHCP Server Enabled ~ Max DHCP Users = 0

- Independent Subnet
- Home Desktops / Laptops / Office Laptops
- Wifi enabled WPA Encryption
- Set to re-start once a week at 2:30 AM
- Firewall Enabled SPI Firewall basic settings (e.g. Blocks anonymous WAN requests)
- Dedicated IP Address for each MAC Address
 - > Added level of security painful when a new device needs to connect

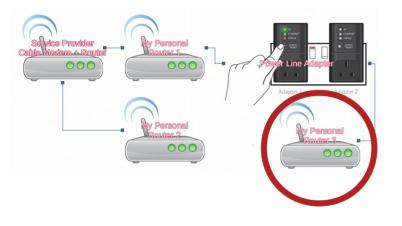
Powerline Adapter — Connect to Room Upstairs



 Location – Basement / Family Room / Upstairs Room

- Needs to be paired ~ one cannot simply add another adapter to an available Power outlet
- Use the power outlet closest to the Fuse Box has an impact on performance
- No Wifi capability only Ethernet
- Tried using a Wifi 'repeater' Upload and download speeds using Powerline Adapter were 3 times better
- Where do I have these adapters?
 - Room Upstairs diagonally across from where the Routers are placed in the Basement – No Wifi signal
 - In the TV Shelf behind the TV due to it's location – no wifi signal – Have a pc that helps make the TV 'smart'.

My Personal Router 3 – used as a switch



- Dlink Router really old
- DHCP Disabled used as a swtich
- Input / Output use any of the 4 Ethernet Ports – not the WAN Port

- Used as a switch doesn't assign IP Addresses
- Connected via Ethernet to the Powerline Adapter
- Basic Firewall enabled
- Wifi using the Same SSID as 'My Personal Router 1'
- Could use a different one that will enable me to know which router my device is connected to ~ don't see any benefit of using the Same SSID (except that you only need to connect once)
- Using the OOB Dlink Firmware
 - Room Upstairs diagonally across from where the Routers are placed in the Basement
 - Extends wifi to the upstairs rooms

Security Overview

