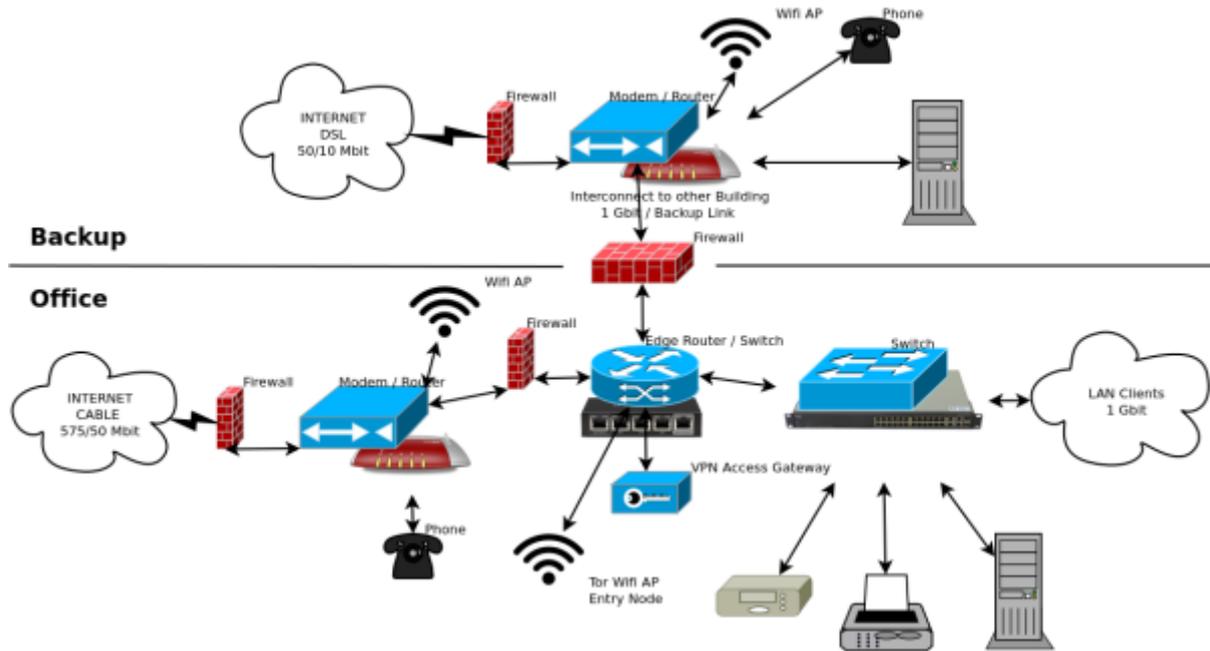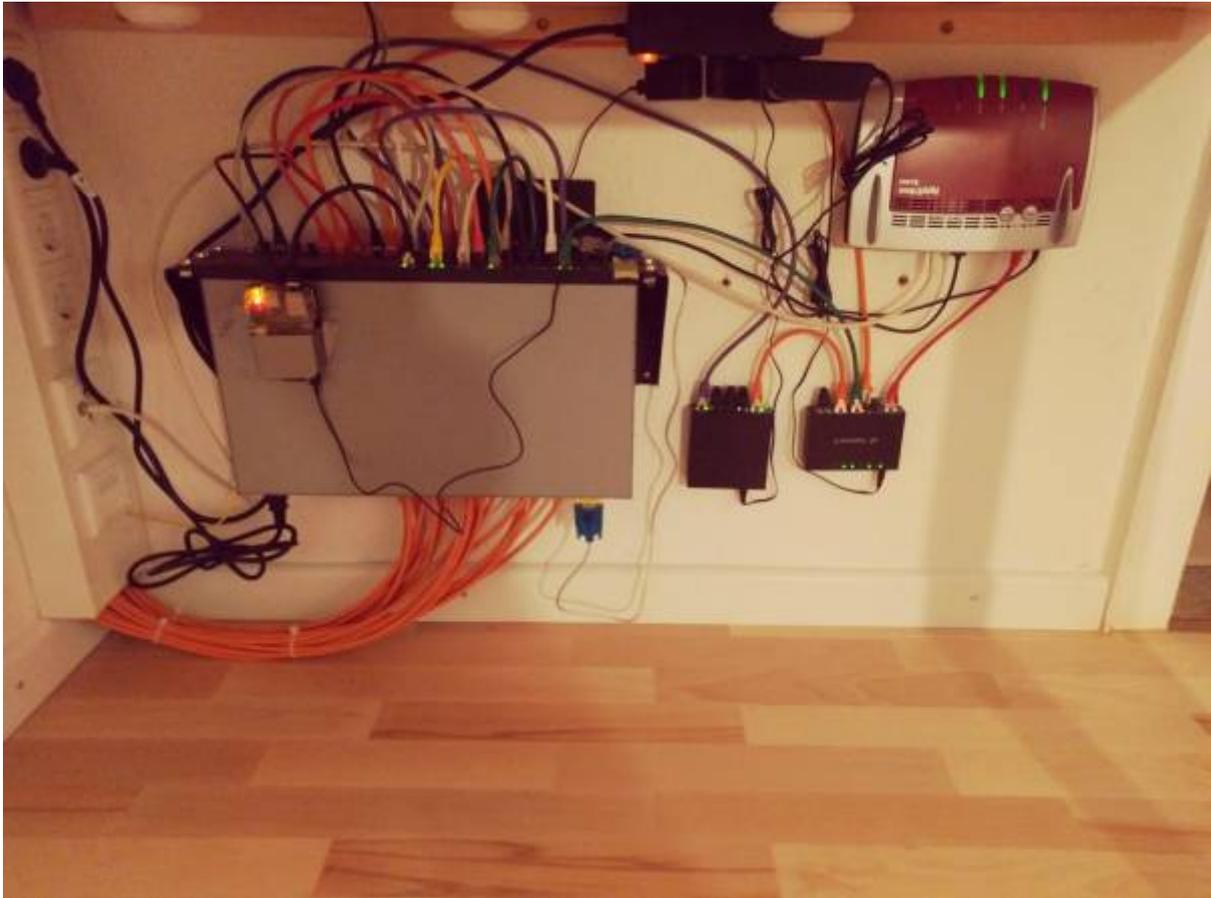# Home Network (2020)

My Home Office Network

In real it looks like this:

Hardware

- [Fritz!Box 6490 Cable Modem and Router](#) (for the primary access gateway)
- [Fritz!Box 7490 DSL Modem and Router](#) (for the secondary access gateway)
- [Ubiquiti Edge X Router](#) (for failover from cable to DSL)
- [Cisco SG300-28 Managed Switch](#) (I needed a switch, this is fan-less; Cisco sucks!)
- [NETGEAR GS305 5-Port Unmanaged Gigabit Switch](#) (for an unused DMZ... :D)
- [GL AR150-Ext (Runs OpenWrt by default)](#) (for a private Wifi without Internet access)
- [Raspberry Pi](#) (for the TOR entry node)
- [Ralink WiFi Dongle with RT5370 Chipset (Works in AP mode using hostapd)](#) or
- [USB Wireless Adapter MediaTek Ralink RT5370N (Works in AP mode using hostapd)](#)

Software

TODO

Tips and Tricks

Ubiquiti Edge X

Enable NAT Hardware Offloading

Without this feature I got only about 300 Mbits data rates to my ISP. Since I have an 1.000 Mbits uplink I needed to enable this feature. With NAT Hardware Offloading I get the full data rate but Deep Packet Inspection (DPI) does not work anymore. Since I do not analyze traffic in any way on my router I don't care about this.

```
configure
set system offload hwnat enable
commit
save
exit
```

Manual: https://help.ui.com/hc/en-us/articles/115006567467-EdgeRouter-Hardware-Offloading

Links

- WLAN-Access-Point mit hostapd und USB-Stick (german)
- Raspberry Pi als WLAN-Bridge einrichten (WLAN-Access-Point) (german)
- Raspberry Pi als WLAN-Access-Point einrichten (german)
- Setting up a Raspberry Pi as a WiFi access point - Make the most adorable little WiFi router
- Multiple SSIDs with hostapd
- Onion Pi - Make a Raspberry Pi into a Anonymizing Tor Proxy!
- PiVPN - The simplest way to setup and manage a VPN, designed for Raspberry Pi.
- RetroPie - Retro-gaming on the Raspberry Pi
- OpenWrt GL.iNet GL-AR150
- OpenWrt Ubiquiti EdgeRouter X (ER-X), EdgeRouter X-SFP (ER-X-SFP) and EdgePoint R6 (EP-R6)
- How To Forward Ports through a Linux Gateway with Iptables
- How to enable IP Forwarding in Linux

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