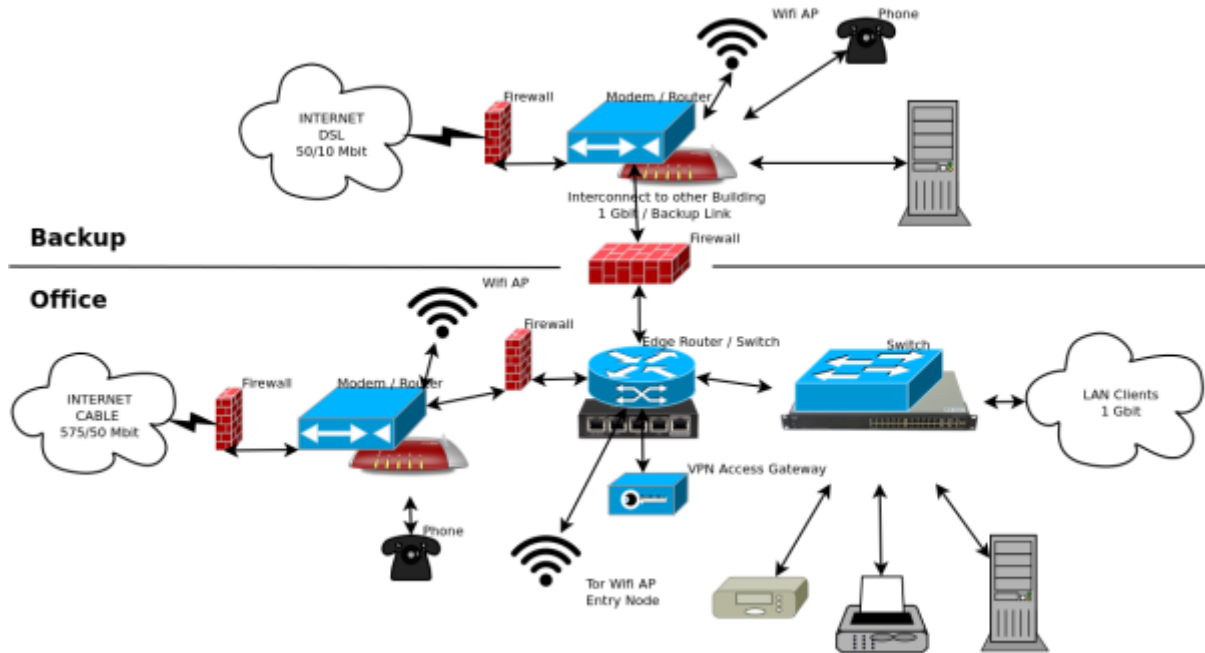
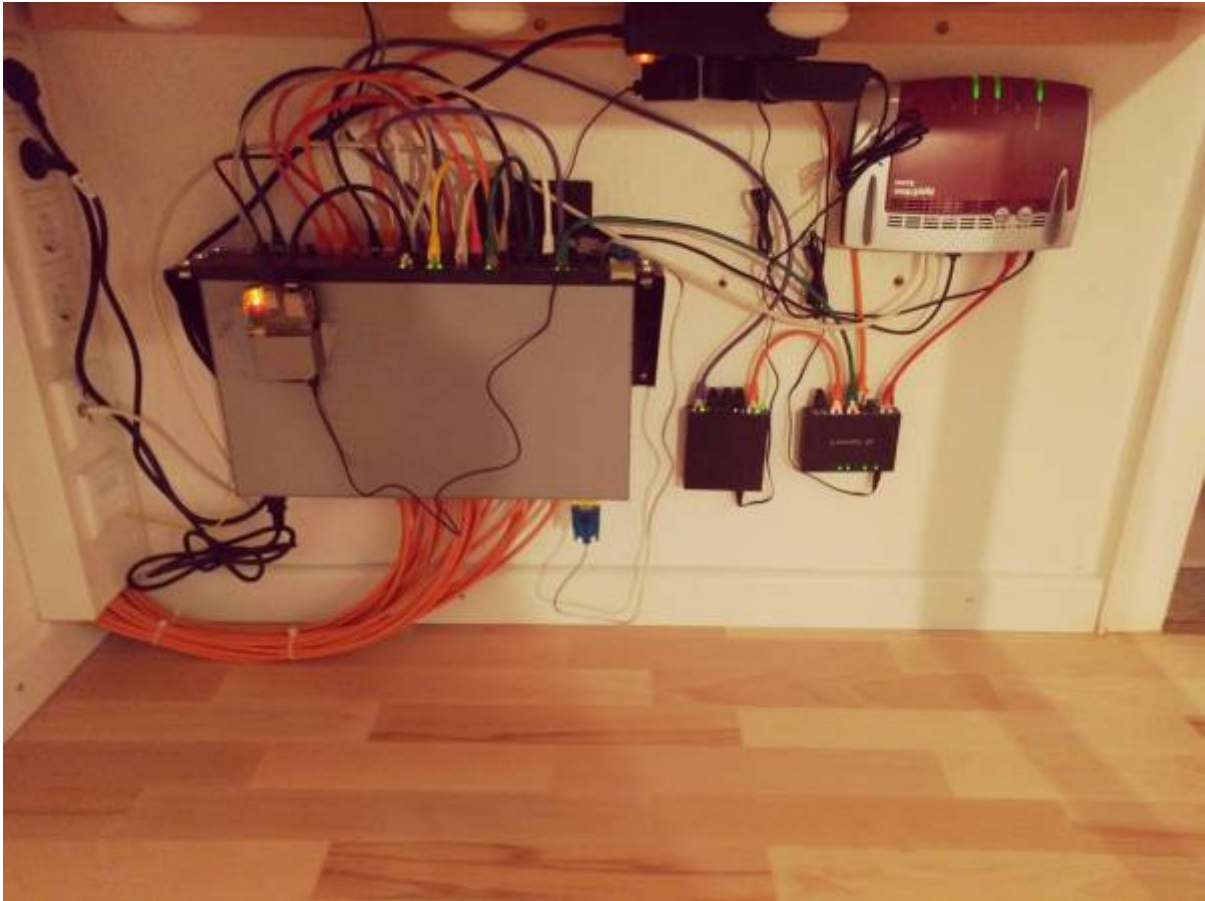


# Home Network (2020)

## 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](#)
- [\[\[https://www.ducea.com/2006/08/01/how-to-enable-ip-forwarding-in-linux/|How to enable IP Forwarding in Linux\]](https://www.ducea.com/2006/08/01/how-to-enable-ip-forwarding-in-linux/)

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