

Network Infrastructure

All this shit is depreciated, read it at your peril cause damn.

--Old Word Salad--

My network starts with pfSense installed on a mini PC hooked up to my /29 with comcast business. This is in the living room because that's where the coax comes in. The firewall is unsurprisingly connected to a switch; this switch is managed and has a single 10gb fiber port. I also keep my physical AD+DNS+DHCP+WDS server next to all this stuff. Naturally the fiber on this switch is for the link back to the bedroom that is my office with the big servers and my main desktop area in it. There are two more switches in here, the main one is the counterpart to the one in the living room and has two of those 10gb ports. The other 10gb port is for the main compute server, **Saturn**. Since this is both a file server and a VM server I wanted the pipe to be dummy thicc. The other switch is just a small 5 port managed switch screwed to my computer desk for.... reasons. I've also got some Unifi WAPs, two WiFi 5 APs in alternate corners of my apartment, and a WiFi 6 AP right in the middle. Have I noticed a difference with WiFi 6? Nah, it's barely enough to justify the cabling it took to mount it. The physical server runs windows server 2022 and hyperv, and has several storage locations. I have a separate NAS for the two large ZFS protected volumes as well. The NAS has dual xeon and 128GB of RAM on the compute side, and the two ZFS pools come to 30TB and 10TB. The 30TB volume is my general file server volume, containing among other things all my movies and TV shows, years of archived stuff of all varieties, software, ISOs, and literally etc. The 10TB volume is at this point just for Matt Drive. Right now I have a 8TB VHD provisioned for Matt Drive, and I can always expand that if it ever comes to that. I also have just recently installed physically in Saturn some drives that are used with the backup server. These are just a stripe, but I am using windows storage spaces for it, so I'll see how that goes. So far the performance has been good, but that's what a pure stripe will do for you. I also have a couple of NVMe's on Saturn for the VHDs of the VMs.

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