<https://pimylifeup.com/raspberry-pi-nextcloud-server/>

* Use a decent firewall that maintains IPS, AV, geo-ip, and botnet signature lists and has SSL-VPN web portal capabilities. Sophos has a home lab license for their VM-based firewall, I personally have a Fortigate 60E at home.
* Put your NAS or web servers in a DMZ and only have needed ports forwarded to it. If something does get compromised this at least helps isolate it a bit from other devices that don't need to be Internet-facing.
* If you use a NAS most of them have some built in security software/scans and firewall settings, lock it down via the vendors best practices. Have auto-update enabled to make sure the OS is up to date and uninstall any services on it you don't use.
* Use a reverse proxy when possible.
* Change default ports whenever possible to prevent scanning for known services.
* Standard account protection stuff: login throttling, account lockouts, long password, don't use common account names such as "admin," and implement 2FA when possible.
* If you have to have the NAS ports directly exposed to the Internet implement a geo-ip blocking rule that only accepts connections from IPs in your country if you can. This isn't a great security measure but it can really cut down on a lot of attack traffic.
* One of the best things you can do is put everything behind a VPN with 2FA authentication. Have an always-on VPN on your devices that stays connected to your home setup. If you want to access your data from a public computer you can use a web-portal VPN that you can log into that will then expose internal services to you via SSL-VPN.
* None of this is fool-proof. Nothing removes the need for 3-2-1 backups with at least one being air-gapped.

<https://www.howtogeek.com/66438/how-to-easily-access-your-home-network-from-anywhere-with-ddns/>

Connecting to your home network requires:

A DDNS host

A router that supports DDNS (or software)

Resilio sync?

Does nextcloud offer sync?

Replace own cloud with command line folder that allows you to edit from anywhere

Use a vpn if you’re going to access your home server from an outside network, and you may need to get a domain in order to make it work

<https://zduey.github.io/tutorials/ssh-server-on-home-computer/>

<https://www.reddit.com/r/selfhosted/comments/44h4df/how_to_selfhost_a_domain/>

<https://www.reddit.com/r/HomeServer/>

<https://www.reddit.com/r/selfhosted/>

Use android without google

Can you use google maps without logging into google?

<https://zduey.github.io/tutorials/ssh-server-on-home-computer/>

Secure firefox on laptop and desktop

Strip down Win 10 to barebones with Shadow

~~Run home server from virtual environment~~

DL google drive

FTP files to home server

access home server from phone / laptop

make home server available remotely

~~Set up raspberry pi as your home server~~

* ~~Backup your data with a RAID 1 array and 2 external harddrives~~

Run office and excel from virtual desktop

Get off google drive

Run new home drive from home network

Run new home drive remotely (research security risks)

Get off youtube.

You can use youtube, but without an acct

Save videos into text documents

Playlists / channels to explore

Don't allow an algorithm to determine what you see, silo different versions of youtube into different topics

set up SSH key file to pi server

confirm it is working perfectly

disable SSH password authentication

organize YouTube music into genres

download youtube music and put on spotify