Tailscale

...my experience so far

What is Tailscale?

Is it a VPN?   Sort of...

Tailscale is an overlay network based on Wireguard

What is Wireguard?

- Wireguard is a point to point VPN protocol

- Initially released in 2015 but took about 5 years to make it into the Linux kernel

- Wireguard is fast but is tricky to configure and use

- This is where Tailscale comes in...

Tailscale and Tailnet

- Tailscale - a zero-config VPN

- Tailnet - a virtual/overlay network of hosts

- Coordination server - register each client to be part of a Tailnet

NAT Traversal

- Tailscale implements comprehensive NAT traversal using various protocols

- This includes NAT behind CGNAT

- If NAT traversal doesn't work it will fallback to a relay via Tailscale servers

Tailnet Lock

- Limits the machines that can sign new clients on to a Tailnet

- Anti-lockout using OTPs to disable Tailnet lock

- Zero-trust protocol

Other Features

- Subnet routing

- Magic DNS

- It's free to use (3 users 100 hosts)