How Internet works?

Monday, 4 October 2021 4:13 PM

HLD Basics →

Load Balancing ✓

DNS ✓

Issues, Round robin

CAP

If additional ✓

Scaling

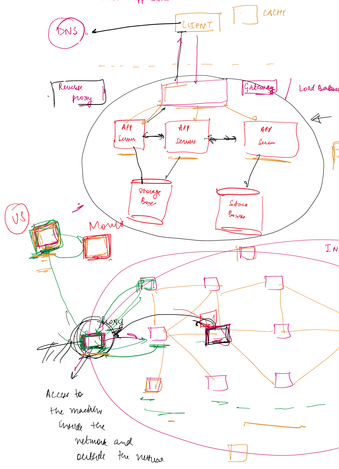
Scaling

CLIENT → You interact with big distributed system again details

→ Browser

→ Web Applications

→ Mobile Applications



Distributed VPN → TOR

Access to the machine inside the network and outside the network

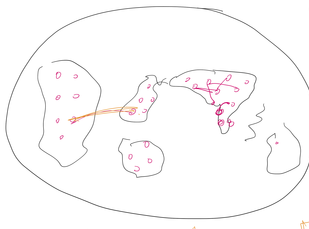
Use case

→ whitelisting / Blacklist

Authentication

VPN

Internet → Network of networks



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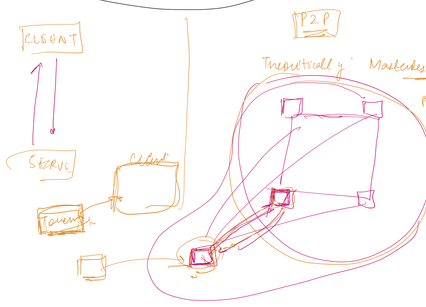
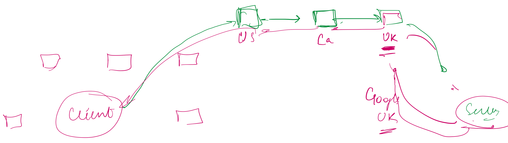


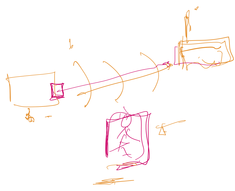
1. Intranet
2. Internet
3. Hierarchical
4. Proxy Machines → VPN
5. P2P → Inn



Latency.

Latency ∝ Distance / No. of hops it had to cross

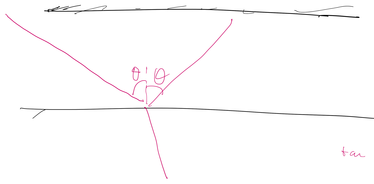
→ Don't access your confidential details on public wifi



Radio signals

Transmission

TIR → Total Internal Reflection

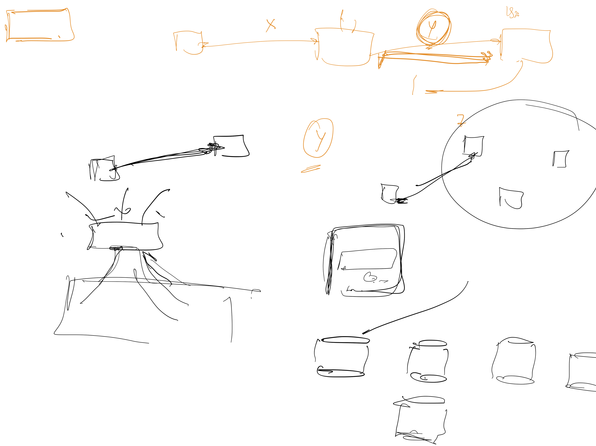


3×10^8 m/s

μ → Refract

$\tan\theta = \frac{1}{\mu}$

RDS → Rate of

↳ Bottleneck

Data Transmission