

Network Protocols

Layer 3 or peculiarities about “common wisdom”

What could have been different?

- Addressing
 - Larger
 - automatically derivation
 - Central coordination (rent versus own)
- Elimination of certain fields
- Call the TTL a hop count
- Getting rid of the version field?
- Fragmentation strategies

Hop count / TTL

- Is it better to count up or down?
- Does it matter where you start?
- How do you use it as a security knob (kind of)
 - Think anti-spoofing and hop limiting

Privacy

- How do or don't you have it?
- IPX was better in some ways, but less privacy?
- IPv6 can implement hardware based node address
- How do you get source address anonymity?
- How do you prevent source address anonymity?

Some things to be familiar with

- Default-free
- Ships-in-night
- Traffic engineering
- Whois
- Netflow
- traceroute