

Networking:

Q1) What is IPv6 ? Why should we care?

Q2) How does ping work ? What about traceroute ?

Q3) I type `http://www.yahoo.com` in my browser's URL bar and I press enter. What happens ? (discuss at every OSI layer - Physical, data link, network, transport, session, presentation, application)

DNS & anycast, IP, UDP, routing, BGP, TCP, HTTP, transparent proxy

What is BGP?

What's a PTR in DNS? Why should we care?

Q4) What if I change from `http://www.yahoo.com` to `https://www.yahoo.com` ?

Public/private certificates, CAs, proxying, MiTM, etc.

Q5) What happens when I press the send button in my email client ?

Q6) How do we prevent bots crawling ? How would you deal with a syn flood ?

Q7) How many hosts in a /24 network? What about a /22 ?

Q8) What is the difference between DNAT and SNAT ? When do you use either ?

Q9) What is a virtual IP address? What is a cluster?

Q10) What is IPv6 ? Why should we care?