

Ann Arbor Junior Hacking Club

Week 11

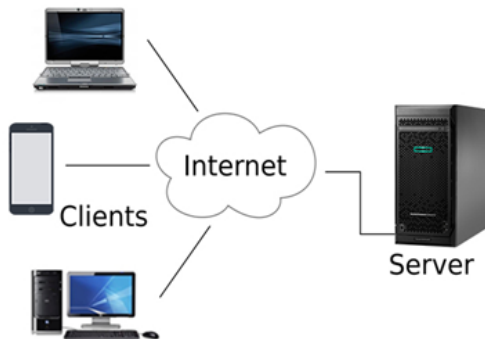
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Reading materials:

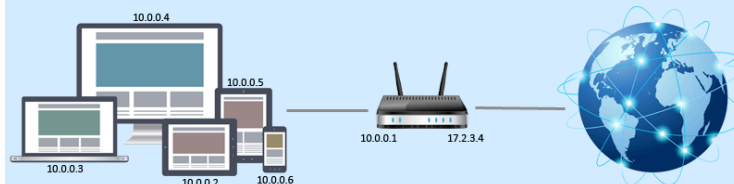
<https://www.khanacademy.org/computing/computers-and-internet/xcae6f4a7ff015e7d:the-internet>

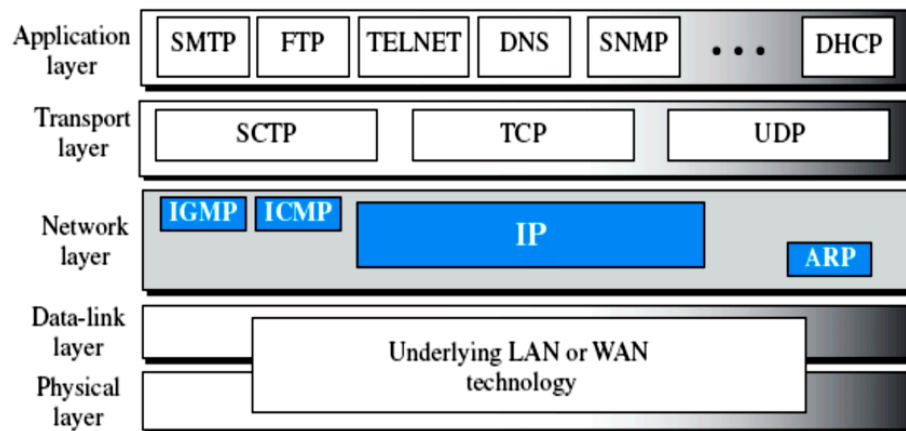
Concepts

- host, hostname, domain name, FQDN (Fully Qualified Domain Name)
- IP address (IPv4, IPv6)
- NAT private IP vs public IP
- Port number (16-bit number, 1 - 64000)
- URL/address/link



Network Address Translation





Protocol names to remember:

IP, TCP/UDP, HTTP(application layer) HTTPs

Commands to Remember

dig

ping

tracert

telnet (almost equivalent to direct TCP connection)

netcat (nc)

Ifconfig /ipconfig (windows)

nmap (**Illegal to scan port without permission**)

/etc/hosts

wget -U "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/113.0.0.0 Safari/537.36" TARGET_URL -O output_file

HTTP Basics