Should know What layer is stuff on (protocols, processes, etc...)

DNS = Application

WIFI =

UDP = Transport

EMAIL = Application

TCP = Transport

HTTP = Application

Ethernet =

What is each line in HTTP request end in? \n\r

What is sequence of cchars in hTTP request indicate no data left? \n\r\n\r (midterm)

What is BGP? Select all that apply

What is an AS? Select all that apply

If the IP layer gets you to machine/host, what protocol gets you to the process? (midterm) Transport

What layer gets you to the next hop/device? Layer 3

What is a network address translation? Select all that apply

What is a traditional http? Port 80

dns port? (midterm) port 53

Which applications would UDP make sense for (midterm) DNS

TCPs cubic method....... (midterm) SLOWS DOWN THE WINDOW SIZE INCREASE AS IT APPROACHES THRESHOLD

ARP is used to? Select all that apply

What CLI tool is used for reverse dns lookup? NSLOOKUP

What CLI tool is used to see if a host is active, PING

What CLI tool could be used to find information on the registering entity on an IP address? WHOIS

What ... is used to record network traffic? (tcpdump)

What ... can be used to find AS of IP address? WHOIS

What is traceroute (select all that apply)

What is ping (select all that apply) // See if a host is active

The tcp sequence number: (select all that apply) (midterm) num of bytes sent random 3 way handshake

What is DHCP? (select all that apply)

True/False:

Point of DNS is to resolve domain to ip address (true)

Different resolutions due to coasts (true)

A TCP server's socket code will use the listen/bind functions (midterm) TRUE

AIMD converges on being fair (midterm) TRUE

Static routes can be made persistant by editing the file in /etc/netplan TRUE

The APIs in lab2 were restful (true)

A traceroute will generally have more hops than unique AS's traversed (true)

The APIs we created for lab3 were not restful (false)

Link layer switches are immune to all attacks False

TCP and UDP are said to be reliable (false)

HTTP servers can only be hosted on port 80 False

HTTP can be in the payload of a TCP/Payload section True

WiFi has an RFC True

Link layer switches are self learning (true)

TCP is reliable (true)

IP is reliable (false)

congestion avoidance and flow control are the exact same thing (false)

HTTP is in plaintext (true)

An AS may have a point of presence in more than one country TRUE

Ethernet has an RFC TRUE

SMTP is in plaintext TRUE

Network address translation can be used to allow many machines to share a single IP TRUE

Draw/SAQs

53: Write the exact command you would need to capture a tcp dump listening to any interface or write out to a file

Sudo tcpdump -i any -w name.pcap

51: Draw the IP stack model the book focuses on