fragmentation, packets vs datagrams vs segments, autoQoS. 9 days!

WOTD: voyager fly-by of neptune, courtesy: nasa.gov

:: VLOG TOPICS ::

// written plan //

- boson review, different method

leads to flash cards

leads to reading

- drill sheet updates

- rarp vs bootp vs dhcp

upcoming

- EEM components

action command

- douglas comer book

// mini-reviews //

\*\* Encapsulation nomenclature \*\*

PDUs (Protocol Data Units) [encapsulation units, header + payload ]

*L4 segments*

*tcp*

*L3 datagrams*

self-contained data unit on packet-switched network

generally unreliable (udp - user **datagram** protocol)

RFC 1594

*L3 packets* - any data unit on packet-switched network, reliable or not

*L2 - frames*

\*\* Fragmentation (IPv4) \*\*

- Trade offs

efficiency

latency

- MTU (maximum transfer unit) - frames, L2

- MSS (maximum segment size) - segments, L4

not negotiated, but announced during SYN

router in transit can adjust (GRE tunnels)

ip tcp mss-adjust 1436

\*\* Auto-QoS

:: MEAT CHUNKS (links OTD):

Netflix documentary on voyager missions, 'the farthest':

<https://www.netflix.com/title/80204377>

slide share on RARP/BOOTP/DHCP:

<https://www.slideshare.net/PeterREgli/rarp-bootp-dhcp>

Internetworking on eBay:

<https://www.ebay.com/itm/262813561375>

:: SOCIAL MEDIA ::

TWITCH - <https://www.twitch.tv/thelantamer>

DISCORD - <https://discord.gg/BBSGPYH>

YOUTUBE - <https://www.youtube.com/thelantamer>

TWITTER - <https://twitter.com/thelantamer>

INSTAGRAM - <https://www.instagram.com/thelantamer/>

:: LAB LINKS ::

Google Drive share - <http://bit.ly/2AbJQhp>

INE Diagrams - <http://bit.ly/2mgTGso>

INE VIRL files on Github - <http://bit.ly/2ht78YH>