Neiwarn Searing

- Nerwoon Stack
 - Physical communication
 - Par-10-part communication
 - INTERNETWORKENE
 - transmission Contra

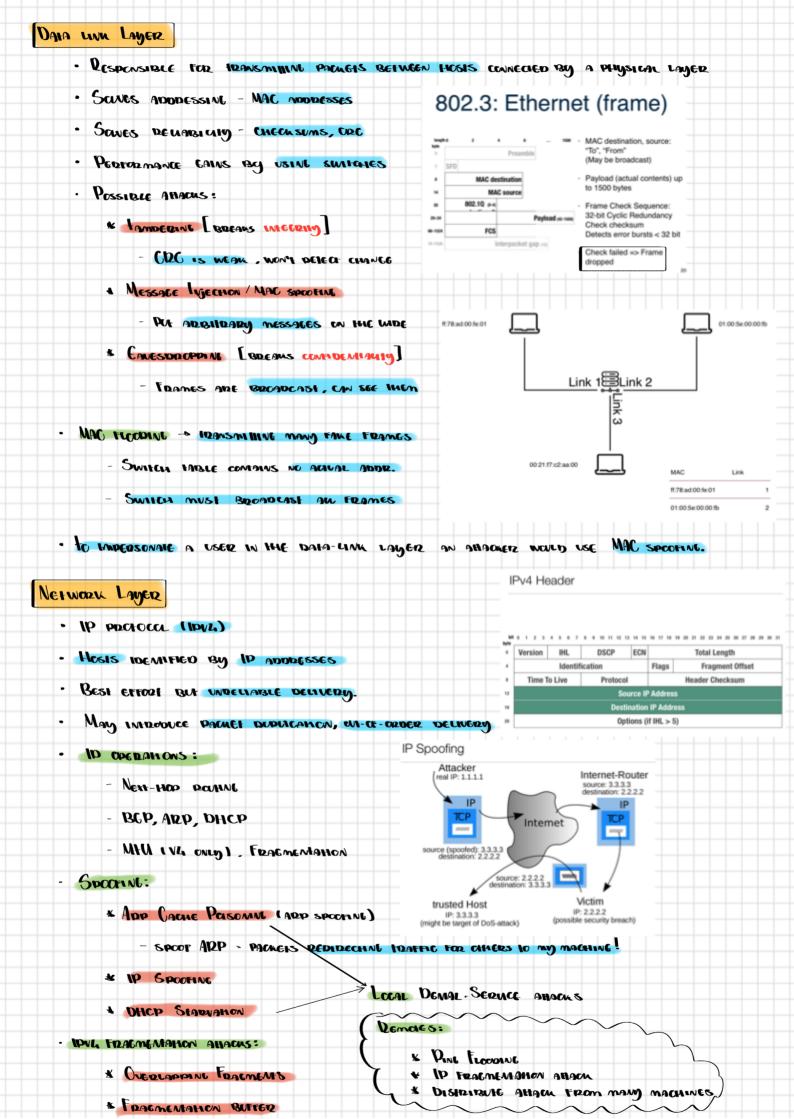
- Domain Name system
- HODERSTEXT TRANSPORT PROJECT

- DELETE MESSACES

- the OSI mobble.
- · ADVERSARY CARABILLINES DOLEV- JOS MODEL
 - * In this case the appearancy was complete contact of the network.
 - * II may:
 - luterceut messales transform messales - Rediay messales - whore messales
 - & It may not:
 - · Cuess and searces
 - * AN AHACK HUST IT CANNOT DO 15:
 - Steal a file stored in a user's complien

Physical Layer

- · DESPONSIBLE FOR HEANSMILLING BINDREY DATA ACROSS PHYSICAL LINK.
- · Usuamy BROADCAST LEEE 802.3 [HIGHENET.
- Provides NO CUADANTES.
- · POSSIBLE AHACKS:
 - & GANESDECODING [BREAKS CONFIDENTIANIN]
 - Frames are Broadcast
 - CON SEE THEN EVEN IF THEY AREN'T FOR ME.
 - * Managaine [BREAKS INTEGRITY]
 - MON'T DETECT MY CHANGE
 - * Demai- CF- GERVICE [BREAKS AVAILABILITY]
 - DU ENOUTH NOISE ON THE TIME, MON'T SEND OR DECEIVE ANY WESSALES
 - * MESSAGE INJECTION
 - CAN DON ADDISTIBABLY MESSAGES ON THE WIDE.
- · CUMINI A NETWORK CABLE IS A KIND OF DEMAL OF SEDINCE.



* too many trainents - Rose AHACH: SEND FIRST & LAST BYTES OF LARGE VOLUMES · IP STOOFING IS NOT EFFECTIVE FOR CAVES DROPPING!: - Venember: Hijaculus identity win bedieber teaffic to limit Hijaculed identity! toanspool Layer · hCb: - CONNECTION CRIENIED, RELIABLE, STREAMING PROJUCEL. - Achieved by message/achievement seq it, timecuts. Osta offset Reserved \$\frac{1}{4}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{4}\$ \$\frac{1} - Pacifical specified as a fairly complex state machine. - FLOW COMPOR, CONGESTION COMPOR URG out-of-band receive SYN synchronise sequence number ACK acknowledgment significant RST drop connection CONNECTION SCHIP: - 3- WAY) HANDSHONE TOP CONNECTION IDENTIFIED BY AN OF (101, DODES, 102, DODES) .. i.e a wersserier at 130,226.133,47:80 can have multiple con. At a since pobl . TOP SEQUENCE PREDICTION AHACK : - WANNA HI JACK CONNECTION & - 8 · ICP seq It are sent cleariest [cavesdocaping] - LISTEN TO TRAFFIC FROM B. KIN B'S END OF CONNECTION. - Spoof 100 packets to A - ICP DESET AHACK - spoof top packet with 12st = 1 DEMORE SYSTEM SHOULD DROP CONNECTION - Bypass IDS/Fidewan may bequite seq prediction. · ICP SON FLOOD - SEND LARGE VOWING OF WHIAL SYN - VERY CHEAP - Lies up butter at receively evo. · to use top sey pred to HI-JACK A CONNECTION, the Adversary HAS to Dos on the Host communicative. Application Layer · Domain Names - FIND ID ADOR FOR WWW. IN. OK - USE UDD QUEDY to DOMAIN-NAME SYS. - Premise: you must know nameserver. - Amacks on FIP, telnet:

- LOGIN CREDENHALS IN CLEARIEST

- ADU MAY OBIAIN USERNAME/PASSWOOD MERELY BY EQUES DECEPTIVE
- Abu may obtain session teaffic by favesopopout.

Freewans & IDS

- · FIDEWALL:
 - SELECTIVELY BLOCK OR REDOUTE NETWORK TRAFFIC
 - ADVERSARY CAN'T ALLOCK ME IF HE CANNOT SEND ME NEIWORK PACKETS.
- Packet Flyenne Fleewan:
 - FILLER BASED ON PACKET CONTEMS
 - DEFAULT : DISCARD, FORWARD
- · Inhousion betechon System (IDS)

Rule	Direction	Src address	Dest addresss	Protocol	Dest port	Action
1	In	External	Internal	TCP	25	Permit
2	Out	Internal	External	TCP	>1023	Permit
3	Out	Internal	External	TCP	25	Permit
4	In	External	Internal	TCP	>1023	Permit
5	Either	Any	Any	Any	Any	Deny

Table 9.1, Stallings & Brown

- DELECTS POLENTIAL MALCIANS ACITYLY
- DOES SO BY ONAW THE VEHWORK HOAFFIC
- LOCATION: NETWORK OR HOST
- DEFECTS KNOWN PAHERNS