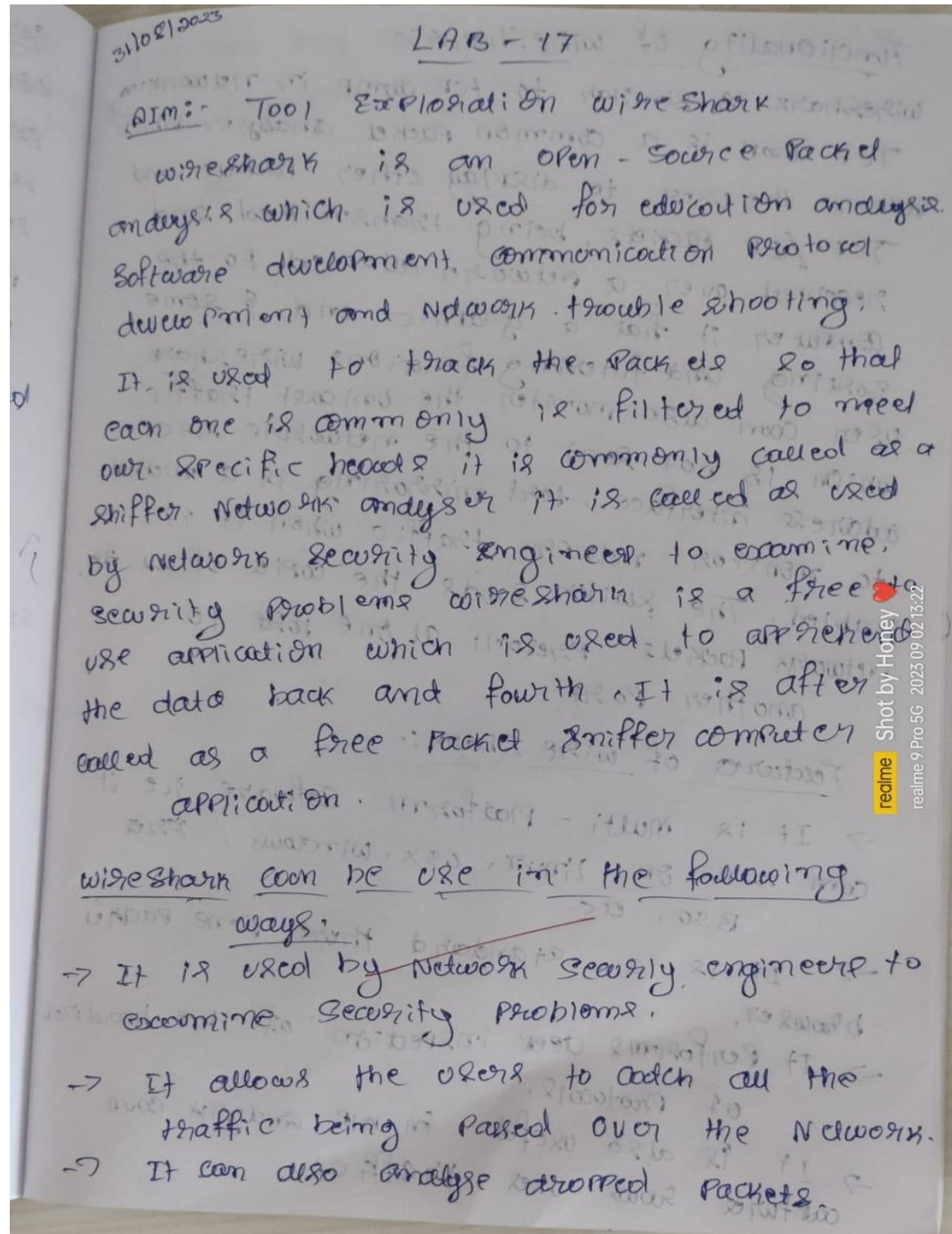


LAB 15

Tool Exploration -Wireshark.

OBSERVATION :



→ It can only capture packet on the PCAP supported networking.

NP
11/9/2023

OUTPUT :

tv-netflix-problems-2011-07-06.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
343	65.142415	192.168.0.21	174.129.249.228	TCP	66	40555 → 80 [ACK] Seq=1 Ack=1 Win=5888 Len=0 TSval=491519346 TSecr=551811827
344	65.142715	192.168.0.21	174.129.249.228	HTTP	253	GET /clients/netflix/flash/application.swf?flash_version=flash_lite_2.1&v=1.5&n...
345	65.230738	174.129.249.228	192.168.0.21	TCP	66	80 → 40555 [ACK] Seq=1 Ack=188 Win=6864 Len=0 TSval=551811850 TSecr=491519347
346	65.240742	174.129.249.228	192.168.0.21	HTTP	828	HTTP/1.1 302 Moved Temporarily
347	65.241592	192.168.0.21	174.129.249.228	TCP	66	40555 → 80 [ACK] Seq=188 Ack=763 Win=7424 Len=0 TSval=491519446 TSecr=551811852
348	65.242532	192.168.0.21	192.168.0.1	DNS	77	Standard query 0x2188 A cdn-0.nflximg.com
349	65.276870	192.168.0.1	192.168.0.21	DNS	489	Standard query response 0x2188 A cdn-0.nflximg.com CNAME images.netflix.com.edges...
350	65.277992	192.168.0.21	63.80.242.48	TCP	74	37063 → 80 [SYN] Seq=0 Win=5840 Len=0 MSS=1460 SACK_PERM=1 TSval=491519482 TSecr=...
351	65.297757	63.80.242.48	192.168.0.21	TCP	74	80 → 37063 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0 MSS=1460 SACK_PERM=1 TSval=3295534130
352	65.298396	192.168.0.21	63.80.242.48	TCP	66	37063 → 80 [ACK] Seq=1 Ack=1 Win=5888 Len=0 TSval=491519502 TSecr=3295534130
353	65.298687	192.168.0.21	63.80.242.48	HTTP	153	GET /us/nrd/clients/flash/814540.bun HTTP/1.1
354	65.318730	63.80.242.48	192.168.0.21	TCP	66	80 → 37063 [ACK] Seq=1 Ack=88 Win=5792 Len=0 TSval=3295534151 TSecr=491519503
355	65.321733	63.80.242.48	192.168.0.21	TCP	1514	[TCP segment of a reassembled PDU]

> Frame 349: 489 bytes on wire (3912 bits), 489 bytes captured (3912 bits)

> Ethernet II, Src: Globalsec_00:3b:0a (f0:ad:4e:00:3b:0a), Dst: Vizio_14:8a:e1 (00:19:9d:14:8a:e1)

> Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.21

> User Datagram Protocol, Src Port: 53 (53), Dst Port: 34036 (34036)

▼ Domain Name System (response)

[Request In: 348]

[Time: 0.034338000 seconds]

Transaction ID: 0x2188

> Flags: 0x8100 Standard query response, No error

Questions: 1

Answer RRs: 4

Authority RRs: 9

Additional RRs: 9

▼ Queries

> cdn-0.nflximg.com: type A, class IN

> Answers

> Authoritative nameservers

0020 00 15 00 35 84 f4 01 c7 83 3f 21 88 81 80 00 01 ...5....?.....

0030 00 04 00 09 00 09 05 63 64 6e 2d 30 07 6e 66 6cc dn-0.nfl

0040 78 69 6d 67 03 63 6f 6d 00 00 01 00 01 c0 0c 00 ximg.com

0050 05 00 01 00 00 05 29 00 22 06 69 6d 61 67 65 73). ".images

0060 07 6e 65 74 66 6c 69 78 03 63 6f 6d 09 65 64 67 .netflix .com.edg

0070 65 73 75 69 74 65 03 6e 65 74 00 c0 2f 00 05 00 esuite.n et../...

Identification of transaction (dns.id), 2 bytes

Packets: 10299 · Displayed: 10299 (100.0%) · Load time: 0:0.182 · Profile: Default

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

Time	Protocol	Length	Info
6.204622	TLSv1.2	166	Application Data
6.231284	TCP	66	443 → 37022 [ACK] Seq=399 Ack=727 Win=373 Len=0 TSval=3700939030 TSecr=82844624
6.231313	TCP	74	443 → 43932 [SYN, ACK] Seq=0 Ack=1 Win=26847 Len=0 MSS=1460 SACK_PERM=1 TSval=2216552151 TSecr=82844608 WS=256
6.231346	TCP	66	43932 → 443 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=82844631 TSecr=2216552151
6.232757	TLSv1.2	593	Client Hello
6.282236	TCP	74	443 → 43934 [SYN, ACK] Seq=0 Ack=1 Win=26847 Len=0 MSS=1460 SACK_PERM=1 TSval=2216552191 TSecr=82844621 WS=256
6.282284	TCP	66	43934 → 443 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=82844644 TSecr=2216552191
6.283618	TLSv1.2	593	Client Hello
6.324864	TCP	66	443 → 43932 [ACK] Seq=1 Ack=518 Win=30464 Len=0 TSval=2216552202 TSecr=82844631
6.324900	TLSv1.2	1514	Server Hello
6.324922	TCP	66	43932 → 443 [ACK] Seq=518 Ack=1449 Win=32128 Len=0 TSval=82844654 TSecr=2216552202
6.324945	TLSv1.2	1514	Certificate[TCP segment of a reassembled PDU]
6.324958	TCP	66	43932 → 443 [ACK] Seq=518 Ack=2897 Win=35072 Len=0 TSval=82844654 TSecr=2216552202
6.324968	TLSv1.2	184	Server Key Exchange, Server Hello Done
6.324979	TCP	66	43932 → 443 [ACK] Seq=518 Ack=3015 Win=35072 Len=0 TSval=82844654 TSecr=2216552202
6.329104	TLSv1.2	192	Client Key Exchange, Change Cipher Spec, Hello Request, Hello Request
6.345243	TLSv1.2	856	Application Data
6.345299	TLSv1.2	1484	Application Data
6.345330	TCP	66	37022 → 443 [ACK] Seq=727 Ack=2607 Win=2605 Len=0 TSval=82844659 TSecr=3700939144
6.345362	TLSv1.2	1484	Application Data
6.347691	TLSv1.2	1484	Application Data
6.347749	TCP	66	37022 → 443 [ACK] Seq=727 Ack=5443 Win=2605 Len=0 TSval=82844660 TSecr=3700939144
6.347781	TLSv1.2	1484	Application Data
6.347807	TLSv1.2	1484	Application Data
6.347829	TCP	66	37022 → 443 [ACK] Seq=727 Ack=8279 Win=2605 Len=0 TSval=82844660 TSecr=3700939144

> Frame 205: 1484 bytes on wire (11872 bits), 1484 bytes captured (11872 bits)

> Ethernet II, Src: Tp-LinkT_95:d8:3e (c4:6e:1f:95:d8:3e), Dst: IntelCor_00:d1:60 (3c:a9:f4:00:d1:60)

> Internet Protocol Version 4, Src: 172.217.13.100, Dst: 192.168.1.170

> Transmission Control Protocol, Src Port: 443, Dst Port: 37022, Seq: 82934, Ack: 1254, Len: 1418

> Secure Sockets Layer

0000 3c a9 f4 00 d1 60 c4 6e 1f 95 d8 3e 08 00 45 00 <...n...>E..

0010 05 be 3d 44 00 00 39 0e c2 66 ac d9 0d 64 c0 a8 ..0..9. .f...d..

0020 01 aa 01 bb 90 9e 18 e1 c8 de 99 9e 67 49 00 18gI..

0030 01 84 a5 86 00 00 01 01 00 8a dc 97 da b6 04 f04...]

0040 1c 3b 17 03 05 95 8e 9d 34 7f 7d a7 ba 7c c9n...]

0050 dc 0b 87 83 0e f9 7f 7e 12 8b a5 5c ab a7 4a].2..of.m

0060 ca cd b3 e7 2e f1 5d ae 0a 32 0f 2e 6f 66 fe 6d]

port 443

Packets: 261 · Displayed: 261 (100.0%) · Load time: 0:0.3 · Profile: Default