

Họ và tên : Nguyễn Thị Nhàn

Mã sinh viên: 15021048

COMPUTER NETWORK

LAB 1: INTRO WIRESHARK

1. Các giao thức xuất hiện:

- ICMPv6
- MDNS
- SSL
- TCP
- HTTP
- TLSv1.2
- QUIC
- ARP

No.	Time	Source	Destination	Protocol	Length	Info
19	1.264187	128.119.245.12	192.168.1.77	TCP	66	80 → 50783 [SYN, ACK] Seq=0 Ack=1 Wln=29200 Len=0 MSS=1412 SACK_PERM=1 WS=128
20	1.264238	192.168.1.77	128.119.245.12	TCP	54	50783 → 80 [ACK] Seq=1 Ack=1 Wln=66304 Len=0
21	1.537852	128.119.245.12	192.168.1.77	HTTP	460	GET / HTTP/1.1
22	1.537852	128.119.245.12	192.168.1.77	TCP	54	80 → 50783 [SYN, ACK] Seq=0 Ack=1 Wln=29200 Len=0 MSS=1412 SACK_PERM=1 WS=128
23	1.271036	192.168.1.77	128.119.245.12	TCP	54	50784 → 80 [ACK] Seq=1 Ack=1 Wln=66304 Len=0
24	1.537851	128.119.245.12	192.168.1.77	TCP	54	80 → 50783 [ACK] Seq=1 Ack=407 Wln=30336 Len=0
25	1.537852	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
26	1.537852	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
27	1.537852	128.119.245.12	192.168.1.77	HTTP	241	HTTP/1.1 200 OK (text/html)
28	1.537893	192.168.1.77	128.119.245.12	TCP	54	50785 → 80 [ACK] Seq=407 Ack=3012 Wln=66304 Len=0
29	1.546003	192.168.1.77	128.119.245.12	HTTP	407	GET /cnrg_imap.jpg HTTP/1.1
30	1.578008	192.168.1.77	72.3.245.222	TCP	66	50785 → 80 [SYN] Seq=0 Wln=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
31	1.592616	192.168.1.77	192.168.1.1	DNS	73	Standard query 0xee2 A www.umass.edu
32	1.598227	192.168.1.1	192.168.1.77	DNS	89	Standard query response 0xee2 A www.umass.edu A 128.119.8.148
33	1.790572	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
34	1.790573	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
35	1.790574	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
36	1.790575	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
37	1.790575	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
38	1.790576	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
39	1.790577	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
40	1.790577	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
41	1.790627	192.168.1.77	128.119.245.12	TCP	54	50783 → 80 [ACK] Seq=760 Ack=14308 Wln=66304 Len=0
42	1.790893	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
43	1.790893	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
44	1.790914	192.168.1.77	128.119.245.12	TCP	54	50783 → 80 [ACK] Seq=760 Ack=17132 Wln=66304 Len=0
45	1.800100	72.3.245.222	192.168.1.77	TCP	66	80 → 50785 [SYN, ACK] Seq=0 Ack=1 Wln=5840 Len=0 MSS=1412 SACK_PERM=1 WS=128
46	1.800151	192.168.1.77	72.3.245.222	TCP	54	50785 → 80 [ACK] Seq=1 Ack=1 Wln=66304 Len=0
47	1.800453	192.168.1.77	72.3.245.222	HTTP	422	GET /images/gupmember.gif HTTP/1.1
48	2.028206	192.168.1.77	72.3.245.222	TCP	54	[TCP Retransmission] 50785 → 80 [ACK] Seq=1 Ack=1 Wln=259 Len=0
49	2.032204	72.3.245.222	192.168.1.77	TCP	54	80 → 50785 [ACK] Seq=1 Ack=369 Wln=6912 Len=0
50	2.032204	72.3.245.222	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
51	2.032206	72.3.245.222	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
52	2.032238	192.168.1.77	72.3.245.222	TCP	54	50785 → 80 [ACK] Seq=369 Ack=2825 Wln=66304 Len=0
53	2.038425	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]
54	2.038426	128.119.245.12	192.168.1.77	TCP	1466	[TCP segment of a reassembled PDU]

2. Thời gian từ khi HTTP GET được gửi đến khi trả lời HTTP OK là:

$$1.537852 - 1.2664461 = 0.273391(s)$$

3.

- Địa chỉ Internet của <http://gaia.cs.umass.edu/> là : 128.119.245.12

- Địa chỉ máy tính : 192.168.1.77

4.

No. Time

Source Destination

Protocol Length Info

1800 3.819720 192.168.1.77

128.119.245.12 HTTP 460 GET / HTTP/1.1

Frame 1800: 460 bytes on wire (3680 bits), 460 bytes captured (3680 bits) on interface 0

Ethernet II, Src: Azurewav_6b:11:19 (28:c2:dd:6b:11:19), Dst: Cambridge_ca:b7:30 (70:d9:31:ca:b7:30) Internet Protocol Version 4, Src: 192.168.1.77, Dst: 128.119

.245.12 Transmission Control Protocol, Src Port: 52788, Dst Port: 80, Seq: 1, Ack: 1, Len: 406

Hypertext Transfer Protocol

No. Time

Source Destination

Protocol Length Info

678 3.848312 128.119.245.12 192.168.1.77 HTTP 241 HTTP/1.1 200 OK

(text/html)

Frame 678: 241 bytes on wire (1928 bits)

, 241 bytes captured (1928 bits) on interface 0

Ethernet II, Src: Cambridge_ca:b7:34 (70:d9:31:ca:b7:34), Dst

: Azurewav_6b:11:19 (28:c2:dd:6b:11:19) Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.77 Transmission Control Protocol, Src Port: 80, Dst Port: 52825, Seq: 2825, Ack: 407, Len: 187

[3 Reassembled TCP Segments (3011 bytes)

: #676(1412), #677(1412), #678(187)] Hypertext Transfer Protocol

Line-based text data

: text/html