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COMPUTER NETWORK

LAB 1: INTRO WIRESHARK

- 1. Các giao thức xuất hiện:
- ICMPv6
- MDNS
- SSL
- TCP
- HTTP

No.	Time	Source	Destination	Protocol L	ength Info
	5 0.598241	fe80::8a28:b3ff:	fedff02::16	ICMPv6	90 Multicast Listener Report Message v2
	6 0.736488	fe80::8a28:b3ff:	fedff02::fb	MDNS	211 Standard query 0x0000 ANY Android.local, "QM" question ANY Android.local, "QM" question ANY Android.local, "QM" question
	7 0.736491	192.168.1.2	224.0.0.251	MDNS	191 Standard query 0x0000 ANY Android.local, "QM" question ANY Android.local, "QM" question ANY Android.local, "QM" question
	8 0.737000	192.168.1.77	224.0.0.251	MDNS	54 Standard query response 0x0000
	9 0.986891	fe80::8a28:b3ff:	fedff02::fb	MDNS	211 Standard query 0x0000 ANY Android.local, "QM" question ANY Android.local, "QM" question ANY Android.local, "QM" question
	10 0.986892	192.168.1.2	224.0.0.251	MDNS	191 Standard query 0x0000 ANY Android local, "QM" question ANY Android local, "QM" question ANY Android local, "QM" question
	11 0.987117	192.168.1.77	224.0.0.251	MDNS	54 Standard query response 0x0000
	12 1.237094	192.168.1.2	224.0.0.251	MDNS	503 Standard query response 0x0000 PTR, cache flush Android.local PTR, cache flush Android.local PTR, cache flush Android.lo
	13 1.237897	fe80::8a28:b3ff:	fedff02::fb	MDNS	523 Standard query response 0x0000 PTR, cache flush Android.local PTR, cache flush Android.local PTR, cache flush Android.lo
	14 2.249125	192.168.1.2	224.0.0.251	MDNS	503 Standard query response 0x0000 PTR, cache flush Android.local PTR, cache flush Android.local PTR, cache flush Android.lo
	15 2.250902	fe80::8a28:b3ff:	fedff02::fb	MDNS	523 Standard query response 0x0000 PTR, cache flush Android.local PTR, cache flush Android.local PTR, cache flush Android.lo
	16 3.025376	192.168.1.77	64.233.188.138	SSL	55 Continuation Data
	17 3.061608	64.233.188.138	192.168.1.77	TCP	66 443 + 49981 [ACK] Seq=1 Ack=2 Win=360 Len=0 SLE=1 SRE=2
	18 3.620608	192.168.1.77	128.119.245.12	TCP	66 49983 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
	19 3.620786	192.168.1.77	128.119.245.12	TCP	66 49984 - 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
	20 3.871507	192.168.1.77	128.119.245.12	TCP	66 49985 - 80 [SYN] Seq=0 win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
	21 3.874769	128.119.245.12	192.168.1.77	TCP	66 80 + 49984 [SYN, ACK] Seq=0 Ack=1 win=29200 Len=0 MSS=1412 SACK_PERM=1 WS=128
	22 3.874878	192.168.1.77	128.119.245.12	TCP	54 49984 - 80 [ACK] Seq=1 ACk=1 Win=66304 Len=0
	23 3.875295	192.168.1.77	128.119.245.12	HTTP	460 GET / HTTP/1.1
_	24 3.875778	128.119.245.12	192.168.1.77	TCP	66 80 + 49983 [SYN, ACK] Seq=0 Ack=1 win=29200 Len=0 MSS=1412 SACK_PERM=1 WS=128
	25 3.875866	192.168.1.77	128.119.245.12	TCP	54 49983 - 80 [ACK] Seq=1 Ack=1 Win=66304 Len=0
	26 4.035588	192.168.1.77	216.58.203.46	SSL	55 Continuation Data
	27 4.062772	216.58.203.46	192.168.1.77	TCP	66 443 - 49982 [ACK] Seq=1 Ack=2 Win=531 Len=0 SLE=1 SRE=2
	28 4.128332	128.119.245.12	192.168.1.77	TCP	54 80 - 49984 [ACK] Seq=1 Ack=407 win=30336 Len=0
	29 4.128334	128.119.245.12	192.168.1.77	TCP	54 [TCP DUP ACK 28#1] 80 → 49984 [ACK] Seq=1 ACk=407 win=30336 Len=0
	30 4.129417	128.119.245.12	192.168.1.77	TCP	1466 [TCP segment of a reassembled PDU]
	31 4.129419	128.119.245.12	192.168.1.77	TCP	1466 [TCP segment of a reassembled PDU]
	32 4.129420	128.119.245.12	192.168.1.77	HTTP	241 HTTP/1.1 200 OK (text/html)
_	33 4.129504	192.168.1.//	128.119.245.12	TCP	54 49984 - 80 [ACK] Seq=40/ ACK=3012 Win=66304 Len=0
	34 4.133477	128.119.245.12	192.168.1.77	TCP	66 80 - 49985 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1412 SACK_PERM=1 WS=128
	35 4.133618	192.168.1.77	128.119.245.12	TCP	54 49985 → 80 [ACK] Seq=1 Ack=1 win=66304 Len=0

2. Thời gian từ khi HTTP GET được gửi đến khi trả lời HTTP OK là: 4.129420 - 3.875295 = 0.254125(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 Leng th Info

902 5.449537 192.168.1.77

128.119.245.12 HTTP 460 GET / HTTP/1.1

Frame 902: 460 bytes on wire (3680 bits)

, 460 bytes captured (3680 bits) on inte rface 0

Ethernet II, Src: Az urewav_6b:11:19 (28: c2:dd:6b:11:19), Dst : Cambridg_ca:b7:30 (70:d9:31:ca:b7:30) Internet Protocol Ve rsion 4, Src: 192.16 8.1.77, Dst: 128.119

.245.12 Transmission Control Protocol, Src Port: 52904, Dst Port: 80, Seq: 1, Ack: 1, Le n: 406

Hypertext Transfer P rotocol

No. Time

Source Destination

Protocol Leng th Info

966 5.752578 128.119.245.12 192.168.1.77 HTTP 241 HTTP/1.1 200 OK

(text/html)

Frame 966: 241 bytes on wire (1928 bits)

, 241 bytes captured (1928 bits) on inte rface 0

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

: Azurewav_6b:11:19 (28:c2:dd:6b:11:19) Internet Protocol Ve rsion 4, Src: 128.11 9.245.12, Dst: 192.1 68.1.77 Transmission Control Protocol, Src Port: 80, Dst Port: 52904, Seq: 2825, Ack: 40 7, Len: 187

[3 Reassembled TCP S egments (3011 bytes)

: #964(1412), #965(1 412), #966(187)] Hypertext Transfer P rotocol

Line-based text data

: text/html