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Nhóm: 2

LAB_INTRO

1. Các giao thức trước bước 7:

- TCP
- HTTP
-

2. HTTP GET -> HTTP OK

$$25,687594 - 25,400117 = 0,287477s$$

The image shows a Wireshark packet capture of an HTTP transaction. The packet list on the left shows several TCP and HTTP packets. Packet 9 is a GET request from 192.168.1.111 to 128.119.245.12. Packet 17 is the corresponding 200 OK response. The packet details pane for packet 17 shows the HTTP response structure, including the status line '200 OK (text/html)' and the response body. The packet bytes pane shows the raw data of the response body, which is HTML content.

No.	Time	Source	Destination	Protocol	Length	Info
4	20:45:25.124011	123.30.175.29	192.168.1.111	TCP	56	80 → 50609 [FIN, ACK] Seq=1 Ack=2 Win=229 Len=0
5	20:45:25.124077	192.168.1.111	123.30.175.29	TCP	54	50609 → 80 [ACK] Seq=2 Ack=2 Win=258 Len=0
6	20:45:25.356649	192.168.1.111	128.119.245.12	TCP	66	50612 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
7	20:45:25.399757	128.119.245.12	192.168.1.111	TCP	68	80 → 50611 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1440 SACK_PERM=1 WS=128
8	20:45:25.399837	192.168.1.111	128.119.245.12	TCP	54	50611 → 80 [ACK] Seq=1 Ack=1 Win=66048 Len=0
9	20:45:25.400117	192.168.1.111	128.119.245.12	HTTP	526	GET / HTTP/1.1
10	20:45:25.415857	128.119.245.12	192.168.1.111	TCP	68	80 → 50610 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1440 SACK_PERM=1 WS=128
11	20:45:25.415939	192.168.1.111	128.119.245.12	TCP	54	50610 → 80 [ACK] Seq=1 Ack=1 Win=66048 Len=0
12	20:45:25.667827	128.119.245.12	192.168.1.111	TCP	68	80 → 50612 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1440 SACK_PERM=1 WS=128
13	20:45:25.667911	192.168.1.111	128.119.245.12	TCP	54	50612 → 80 [ACK] Seq=1 Ack=1 Win=66048 Len=0
14	20:45:25.685443	128.119.245.12	192.168.1.111	TCP	56	80 → 50611 [ACK] Seq=1 Ack=473 Win=30336 Len=0
15	20:45:25.686032	128.119.245.12	192.168.1.111	TCP	1494	[TCP segment of a reassembled PDU]
16	20:45:25.687593	128.119.245.12	192.168.1.111	TCP	1494	[TCP segment of a reassembled PDU]
17	20:45:25.687594	128.119.245.12	192.168.1.111	HTTP	185	HTTP/1.1 200 OK (text/html)
18	20:45:25.687689	192.168.1.111	128.119.245.12	TCP	54	50611 → 80 [ACK] Seq=473 Ack=3012 Win=66048 Len=0
19	20:45:25.699408	192.168.1.111	128.119.245.12	HTTP	476	GET /cnrg_imap.jpg HTTP/1.1
20	20:45:25.825595	192.168.1.111	72.3.245.222	TCP	66	50613 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
21	20:45:25.923002	128.119.245.12	192.168.1.111	TCP	1494	[TCP segment of a reassembled PDU]

Frame 17: 185 bytes on wire (1480 bits), 185 bytes captured (1480 bits) on interface 0
> Ethernet II, Src: Tp-LinkT_3a:e8:6a (c4:e9:84:3a:e8:6a), Dst: ChiconyE_09:3b:da (4c:bb:58:09:3b:da)
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.111
> Transmission Control Protocol, Src Port: 80, Dst Port: 50611, Seq: 2881, Ack: 473, Len: 131
> [3 Reassembled TCP Segments (3011 bytes): #15(1440), #16(1440), #17(131)]
> Hypertext Transfer Protocol
> Line-based text data: text/html

```
0000 4c bb 58 09 3b da c4 e9 84 3a e8 6a 08 00 45 20 L.X.;... :.j..E
0010 00 ab 47 50 40 00 30 06 cb 41 80 77 f5 0c c0 a8 ..GP@.0. .A.w....
0020 01 6f 00 50 c5 b3 55 9e 14 60 5a ec a8 b2 50 18 .o.P..U. .Z...P.
0030 00 ed 69 f5 00 00 69 6f 6e 2f 69 6e 64 65 78 2e .i...io n/index.
0040 68 74 6d 6c 22 3e 20 45 44 55 43 41 54 49 4f 4e html"> E DUCATION
0050 20 7c 3c 2f 61 3e 20 0a 3c 61 20 68 72 65 66 3d |</a> . <a href=
0060 22 2f 6e 65 74 77 6f 72 6b 73 2f 72 65 73 6f 75 "/networ ks/resou
0070 72 63 65 73 2f 69 6e 64 65 78 2e 68 74 6d 6c 22 rces/ind ex.html"
```

3. IP

- gaia.cs.umass.edu: 128.119.245.12
- Máy của tôi: 192.168.1.111