

מטלה 1 - תקשורת ומחשוב

בינום :

- סמואל ביסמוט 342533064

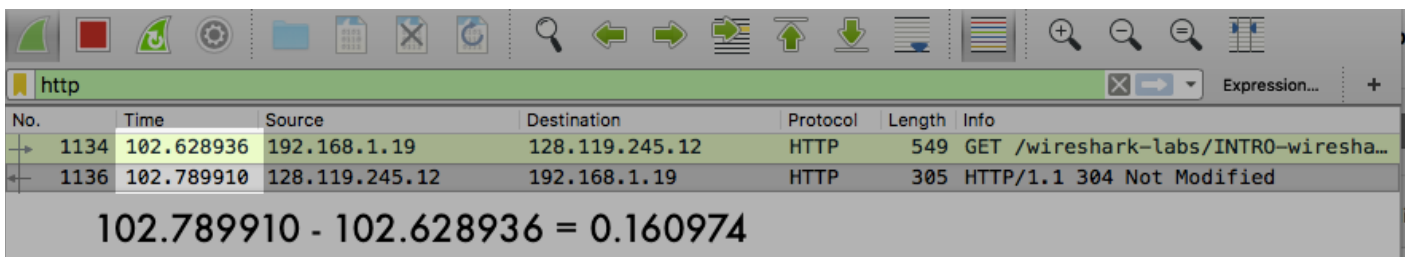
- גואן טוולייה 336104120

שאלה 1

As we can see in the next pictures, the time request between the Get http and the OK http is .1
0.160974000 seconds .

We used two ways to find the value :

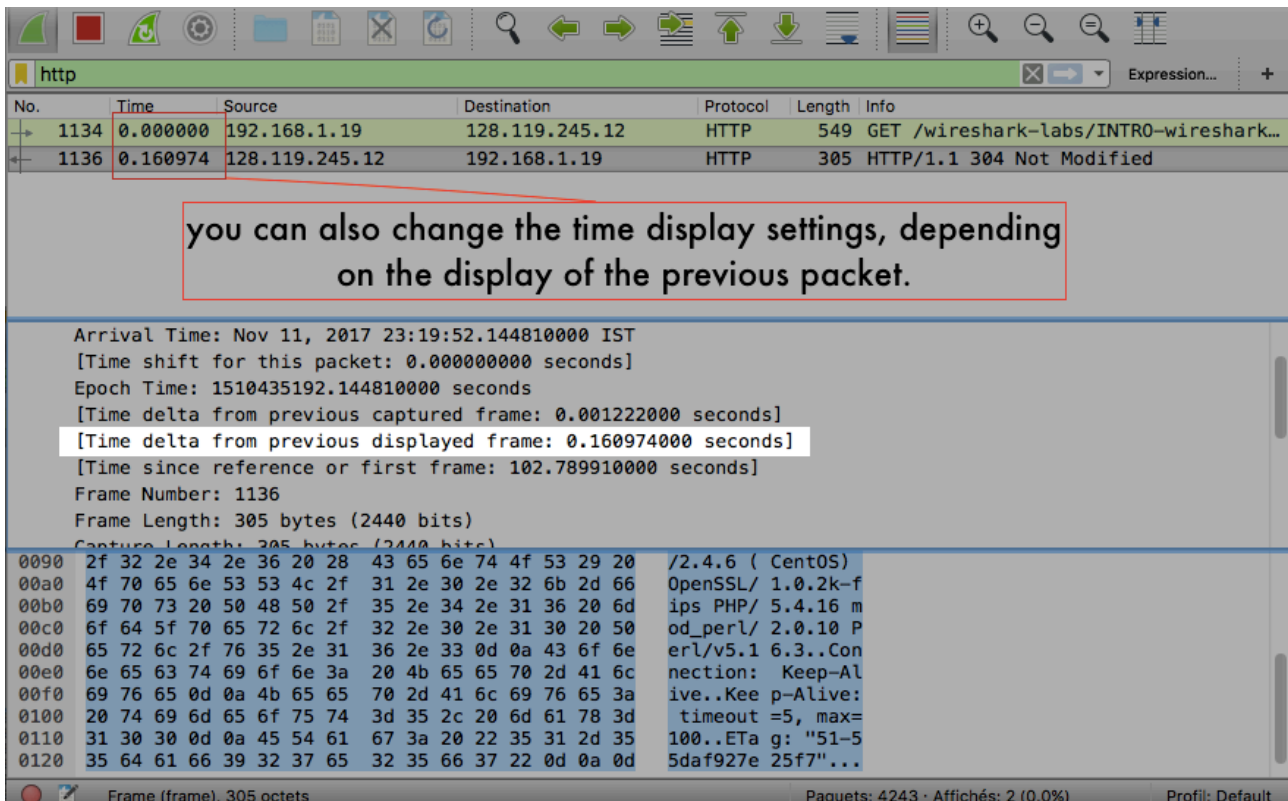
first :



No.	Time	Source	Destination	Protocol	Length	Info
1134	102.628936	192.168.1.19	128.119.245.12	HTTP	549	GET /wireshark-labs/INTRO-wiresha...
1136	102.789910	128.119.245.12	192.168.1.19	HTTP	305	HTTP/1.1 304 Not Modified

$102.789910 - 102.628936 = 0.160974$

second :



No.	Time	Source	Destination	Protocol	Length	Info
1134	0.000000	192.168.1.19	128.119.245.12	HTTP	549	GET /wireshark-labs/INTRO-wireshark...
1136	0.160974	128.119.245.12	192.168.1.19	HTTP	305	HTTP/1.1 304 Not Modified

you can also change the time display settings, depending on the display of the previous packet.

Arrival Time: Nov 11, 2017 23:19:52.144810000 IST
 [Time shift for this packet: 0.000000000 seconds]
 Epoch Time: 1510435192.144810000 seconds
 [Time delta from previous captured frame: 0.001222000 seconds]
 [Time delta from previous displayed frame: 0.160974000 seconds]
 [Time since reference or first frame: 102.789910000 seconds]
 Frame Number: 1136
 Frame Length: 305 bytes (2440 bits)
 Capture Length: 305 bytes (2440 bits)

0090 2f 32 2e 34 2e 36 20 28 43 65 6e 74 4f 53 29 20 /2.4.6 (CentOS)
 00a0 4f 70 65 6e 53 53 4c 2f 31 2e 30 2e 32 6b 2d 66 OpenSSL/ 1.0.2k-f
 00b0 69 70 73 20 50 48 50 2f 35 2e 34 2e 31 36 20 6d ips PHP/ 5.4.16 m
 00c0 6f 64 5f 70 65 72 6c 2f 32 2e 30 2e 31 30 20 50 od_perl/ 2.0.10 P
 00d0 65 72 6c 2f 76 35 2e 31 36 2e 33 0d 0a 43 6f 6e erl/v5.1 6.3..Con
 00e0 6e 65 63 74 69 6f 6e 3a 20 4b 65 65 70 2d 41 6c nection: Keep-Al
 00f0 69 76 65 0d 0a 4b 65 65 70 2d 41 6c 69 76 65 3a ive..Kee p-Alive:
 0100 20 74 69 6d 65 6f 75 74 3d 35 2c 20 6d 61 78 3d timeout=5, max=
 0110 31 30 30 0d 0a 45 54 61 67 3a 20 22 35 31 2d 35 100..Eta g: "51-5
 0120 35 64 61 66 39 32 37 65 32 35 66 37 22 0d 0a 0d 5daf927e 25f7"...

Frame (frame), 305 octets Paquets: 4243 · Affichés: 2 (0.0%) Profil: Default

2.

The Internet address of the gaia.cs.umass.edu is (first picture): **128.119.245.12 (destination)**

my address internet is (second picture) : **192.168.1.19 (source)**

Capture en cours de Wi-Fi: en0

http

No.	Time	Source	Destination	Protocol	Length	Info
52	0.000000	192.168.1.19	128.119.245.12	HTTP	464	GET /wireshark-labs/INTRO-wireshark...
54	0.168028	128.119.245.12	192.168.1.19	HTTP	504	HTTP/1.1 200 OK (text/html)

Header checksum: 0xc61f [validation disabled]
 [Header checksum status: Unverified]
 Source: 192.168.1.19
 Destination: 128.119.245.12
 [Source GeoIP: Unknown]
 [Destination GeoIP: Unknown]

Transmission Control Protocol, Src Port: 50850, Dst Port: 80, Seq: 1, Ack: 1, Len: 398

Hypertext Transfer Protocol

```

0000  4c 17 eb e4 c2 50 48 d7 05 b5 35 7d 08 00 45 00  L....PH. ..5}..E.
0010  01 c2 3b d7 40 00 40 06 c6 1f c0 a8 01 13 80 77  ..;.@. ....w
0020  f5 0c c6 a2 00 50 e6 2a b3 43 c2 b5 c7 78 80 18  ....P.* .C...x..
0030  10 15 04 ff 00 00 01 01 08 0a 09 df 55 89 d6 c4  ....U...
0040  5d fc 47 45 54 20 2f 77 69 72 65 73 68 61 72 6b  ].GET /w ireshark
0050  2d 6c 61 62 73 2f 49 4e 54 52 4f 2d 77 69 72 65  -labs/IN TR0-wire
0060  73 68 61 72 6b 2d 66 69 6c 65 31 2e 68 74 6d 6c  shark-fi le1.html
0070  20 48 54 54 50 2f 31 2e 31 0d 0a 48 6f 73 74 3a  HTTP/1. 1..Host:
0080  20 67 61 69 61 2e 63 73 2e 75 6d 61 73 73 2e 65  gaia.cs .umass.e
0090  64 75 0d 0a 55 70 67 72 61 64 65 2d 49 6e 73 65  du..Upgr ade-Inse
  
```

Frame (frame), 464 octets

Paquets: 130 · Affichés: 2 (1.5%)

Profil: Default

Capture en cours de Wi-Fi: en0

http

No.	Time	Source	Destination	Protocol	Length	Info
625	0.000000	192.168.1.19	128.119.245.12	HTTP	464	GET /wireshark-labs/INTRO-wireshark...
749	0.461377	128.119.245.12	192.168.1.19	HTTP	504	HTTP/1.1 200 OK (text/html)
334627	1538.991655	192.168.1.19	128.119.245.12	HTTP	423	GET / HTTP/1.1
334655	0.297215	128.119.245.12	192.168.1.19	HTTP	181	HTTP/1.1 200 OK (text/html)
334665	0.025591	192.168.1.19	128.119.245.12	HTTP	426	GET /cnrg_imap.jpg HTTP/1.1
334849	0.748737	128.119.245.12	192.168.1.19	HTTP	1466	HTTP/1.1 200 OK (JPEG JFIF im...
335002	0.464604	192.168.1.19	128.119.245.12	HTTP	441	GET /images/qupmember.gif HTTP/1.1
335166	0.661903	128.119.245.12	192.168.1.19	HTTP	200	HTTP/1.1 200 OK (GIF89a)

Header checksum: 0x3a30 [validation disabled]
 [Header checksum status: Unverified]
 Source: 192.168.1.19
 Destination: 128.119.245.12
 [Source GeoIP: Unknown]
 [Destination GeoIP: Unknown]

Transmission Control Protocol, Src Port: 64788, Dst Port: 80, Seq: 1, Ack: 1, Len: 357

Hypertext Transfer Protocol

```

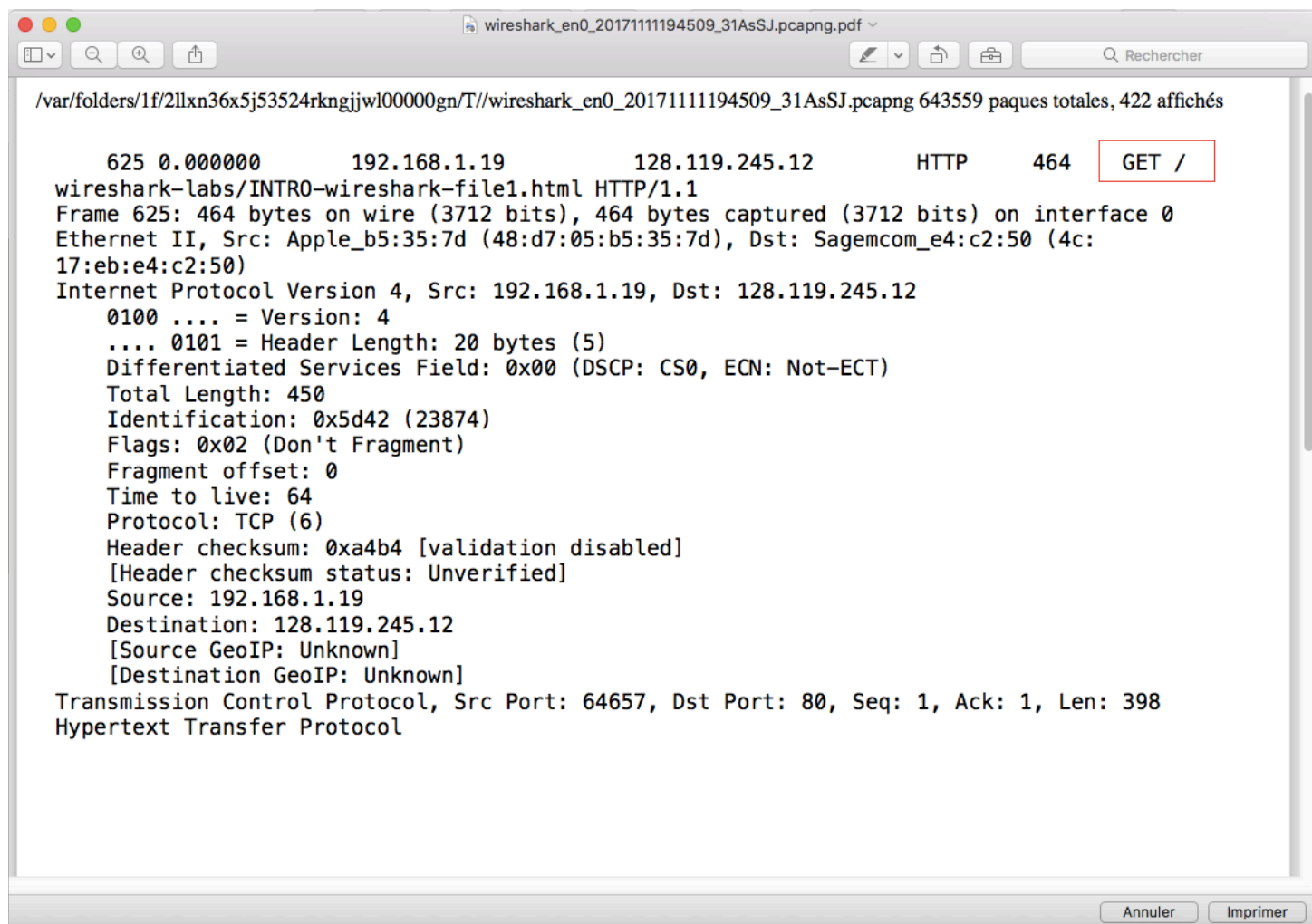
0000  4c 17 eb e4 c2 50 48 d7 05 b5 35 7d 08 00 45 00  L....PH. ..5}..E.
0010  01 99 c7 ef 40 00 40 06 3a 30 c0 a8 01 13 80 77  ....@.@. :0....w
0020  f5 0c fd 14 00 50 e9 be 88 3b 66 8c e8 5a 80 18  ....P.. ;f..Z..
0030  10 15 ea 1d 00 00 01 01 08 0a 09 1b 4f 28 d5 fc  ....0(..
0040  82 ae 47 45 54 20 2f 20 48 54 54 50 2f 31 2e 31  ..GET / HTTP/1.1
0050  0d 0a 48 6f 73 74 3a 20 67 61 69 61 2e 63 73 2e  ..Host: gaia.cs.
0060  75 6d 61 73 73 2e 65 64 75 0d 0a 55 70 67 72 61  umass.ed u..Upgra
0070  64 65 2d 49 6e 73 65 63 75 72 65 2d 52 65 71 75  de-Insec ure-Requ
0080  65 73 74 73 3a 20 31 0d 0a 41 63 63 65 70 74 3a  ests: 1. .Accept:
0090  20 74 65 78 74 2f 68 74 6d 6c 2c 61 70 70 6c 69  text/ht ml,appli
  
```

Ethernet (eth), 14 octets

Paquets: 437611 · Affichés: 8 (0.0%)

Profil: Default

GET :



OK :

