

## Acrividad 16/1. Descarga imágenes

1. ¿El cliente usa el mismo puerto para descargar las tres imágenes?

No utiliza los mismos puertos.

10	0.022890	10.0.2.15	10.0.2.15	TCP	44 50451 → 80 [ACK] Seq=583 Ack=192 Win=0
11	0.083479	10.0.2.15	10.0.2.15	HTTP	548 GET /redes/img/foto1.jfif HTTP/1.1
12	0.083499	10.0.2.15	10.0.2.15	TCP	44 80 → 50451 [ACK] Seq=192 Ack=1087 Win=0
13	0.084437	10.0.2.15	10.0.2.15	HTTP	235 HTTP/1.1 304 Not Modified
14	0.084450	10.0.2.15	10.0.2.15	TCP	44 50451 → 80 [ACK] Seq=1087 Ack=383 Win=0
15	0.093544	10.0.2.15	10.0.2.15	HTTP	548 GET /redes/img/foto2.jfif HTTP/1.1
16	0.093565	10.0.2.15	10.0.2.15	TCP	44 80 → 50452 [ACK] Seq=1 Ack=505 Win=0
17	0.095611	10.0.2.15	10.0.2.15	HTTP	236 HTTP/1.1 304 Not Modified

  

> Frame 11: 548 bytes on wire (4384 bits), 548 bytes captured (4384 bits) on interface \Device\NPF_{...}	0000
> Null/Loopback	0010
> Internet Protocol Version 4, Src: 10.0.2.15, Dst: 10.0.2.15	0020
> Transmission Control Protocol, Src Port: 50451, Dst Port: 80, Seq: 583, Ack: 192, Len: 504	0030
> Hypertext Transfer Protocol	0040

Foto 1

14	0.084450	10.0.2.15	10.0.2.15	TCP	44 50451 → 80 [ACK] Seq=1087 Ack=383 Win=0
15	0.093544	10.0.2.15	10.0.2.15	HTTP	548 GET /redes/img/foto2.jfif HTTP/1.1
16	0.093565	10.0.2.15	10.0.2.15	TCP	44 80 → 50452 [ACK] Seq=1 Ack=505 Win=0
17	0.095611	10.0.2.15	10.0.2.15	HTTP	236 HTTP/1.1 304 Not Modified

  

> Frame 15: 548 bytes on wire (4384 bits), 548 bytes captured (4384 bits) on interface \Device\NPF_{...}	0000
> Null/Loopback	0010
> Internet Protocol Version 4, Src: 10.0.2.15, Dst: 10.0.2.15	0020
> Transmission Control Protocol, Src Port: 50452, Dst Port: 80, Seq: 1, Ack: 1, Len: 504	0030
> Hypertext Transfer Protocol	0040

Foto 2

21	0.111710	10.0.2.15	10.0.2.15	TCP	44 50453 → 80 [ACK] Seq=1 Ack=1 Win=0
22	0.111991	10.0.2.15	10.0.2.15	HTTP	548 GET /redes/img/foto3.jfif HTTP/1.1
23	0.112000	10.0.2.15	10.0.2.15	TCP	44 80 → 50453 [ACK] Seq=1 Ack=505 Win=0
24	0.112855	10.0.2.15	10.0.2.15	HTTP	236 HTTP/1.1 304 Not Modified
25	0.112893	10.0.2.15	10.0.2.15	TCP	44 50453 → 80 [ACK] Seq=505 Ack=193 Win=0
26	4.680701	10.0.2.15	239.255.255.250	SSDP	207 M-SEARCH * HTTP/1.1

  

> Frame 22: 548 bytes on wire (4384 bits), 548 bytes captured (4384 bits) on interface \Device\NPF_{...}	0000
> Null/Loopback	0010
> Internet Protocol Version 4, Src: 10.0.2.15, Dst: 10.0.2.15	0020
> Transmission Control Protocol, Src Port: 50453, Dst Port: 80, Seq: 1, Ack: 1, Len: 504	0030
> Hypertext Transfer Protocol	0040

Foto 3

2. ¿Cuántos 3 way handshake se hacen?

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No.	Time	Source	Destination	Protocol	Length	Info
2	0.000037	10.0.2.15	10.0.2.15	TCP	56	80 → 50451 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
5	0.011274	10.0.2.15	10.0.2.15	TCP	56	80 → 50452 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
20	0.111235	10.0.2.15	10.0.2.15	TCP	56	80 → 50453 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM

### 3. ¿Se descargan de forma secuencial (una detrás de otra)?

Se descargan en orden ya que hay trozos de paquete de forma desordenada y no aparecen todos juntos en Wireshark.

No.	Time	Source	Destination	Protocol	Length	Info
2	0.000031	10.0.2.15	10.0.2.15	TCP	56	80 → 50032 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
5	0.046059	10.0.2.15	10.0.2.15	TCP	44	80 → 50032 [ACK] Seq=1 Ack=471 Win=2619648 Len=0
6	0.047363	10.0.2.15	10.0.2.15	HTTP	808	HTTP/1.1 200 OK (text/html)
9	0.055040	10.0.2.15	10.0.2.15	TCP	56	80 → 50033 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
12	0.126626	10.0.2.15	10.0.2.15	TCP	44	80 → 50032 [ACK] Seq=765 Ack=883 Win=2619136 Len=0
13	0.128047	10.0.2.15	10.0.2.15	TCP	65539	80 → 50032 [ACK] Seq=765 Ack=883 Win=2619136 Len=65495 [TCP segment of a reassembled PDU]
14	0.128073	10.0.2.15	10.0.2.15	HTTP	19153	HTTP/1.1 200 OK (JPEG JFIF image)
17	0.130101	10.0.2.15	10.0.2.15	TCP	44	80 → 50033 [ACK] Seq=1 Ack=418 Win=2619648 Len=0
18	0.130949	10.0.2.15	10.0.2.15	HTTP	7196	HTTP/1.1 200 OK (JPEG JFIF image)
43	5.122724	10.0.2.15	10.0.2.15	TCP	44	80 → 50032 [FIN, ACK] Seq=85369 Ack=883 Win=2619136 Len=0
47	5.155209	10.0.2.15	10.0.2.15	TCP	44	80 → 50033 [FIN, ACK] Seq=7153 Ack=418 Win=2619648 Len=0
52	6.957997	10.0.2.15	10.0.2.15	TCP	44	80 → 50033 [ACK] Seq=7154 Ack=419 Win=2619648 Len=0
54	6.958072	10.0.2.15	10.0.2.15	TCP	44	80 → 50032 [ACK] Seq=85370 Ack=884 Win=2619136 Len=0

HTML y RESULTADO de como queda la Página creada

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body> == $0
    
    <br>
    
    <br>
    
  </body>
</html>
```