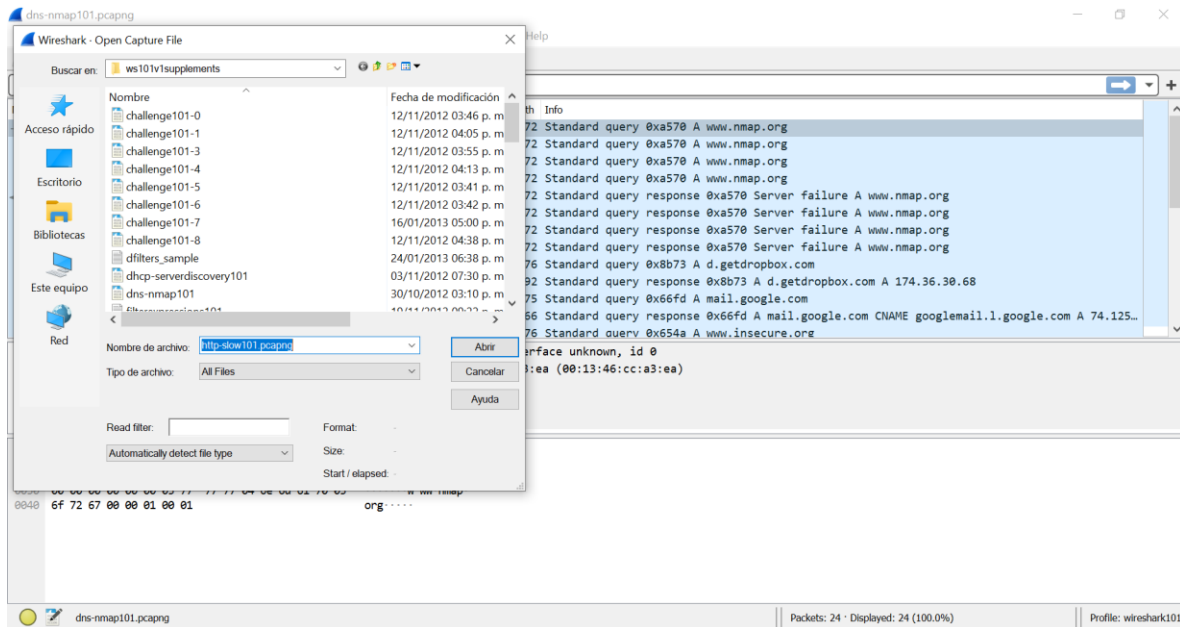
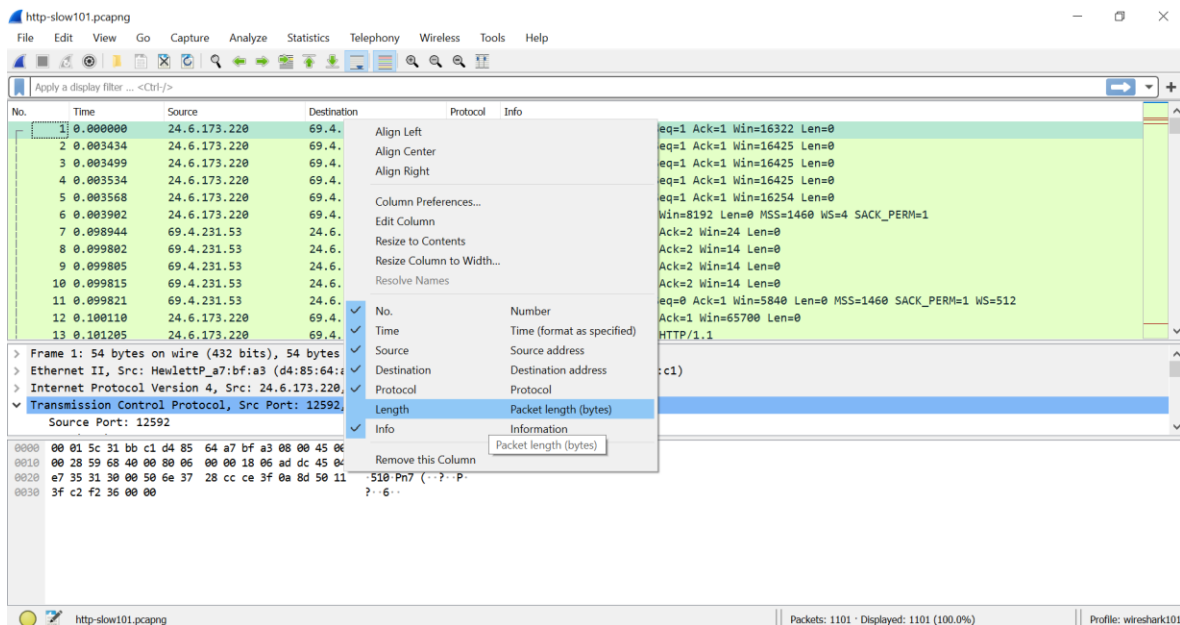


## LAB 8

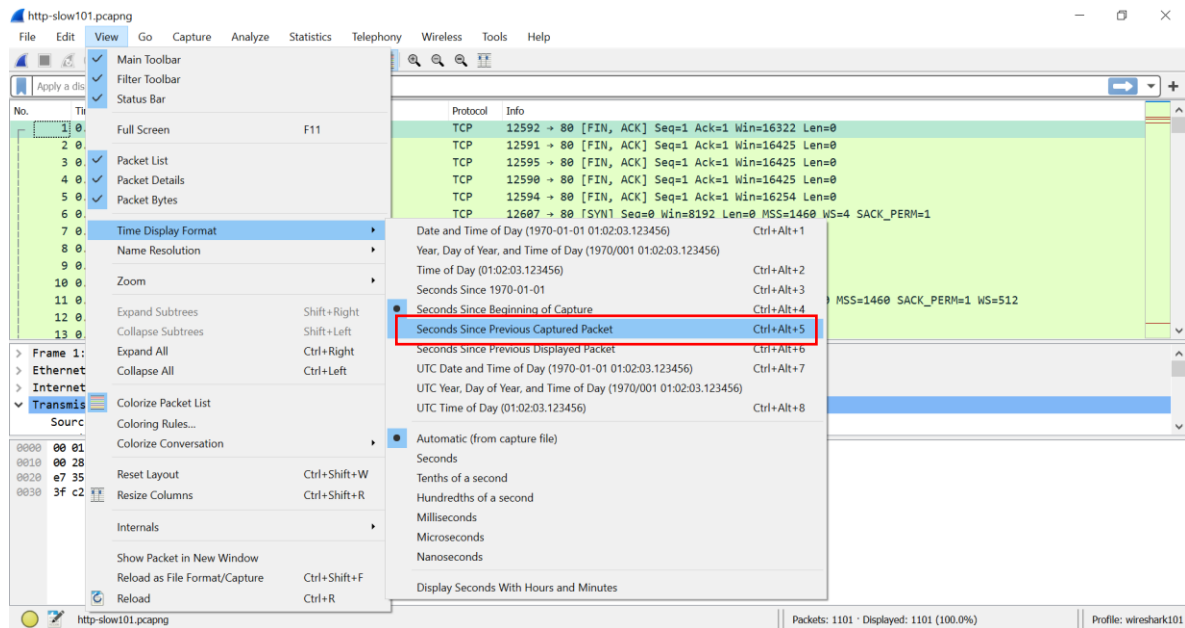
Abriremos un nuevo archivo llamado http-slow101.pcapng



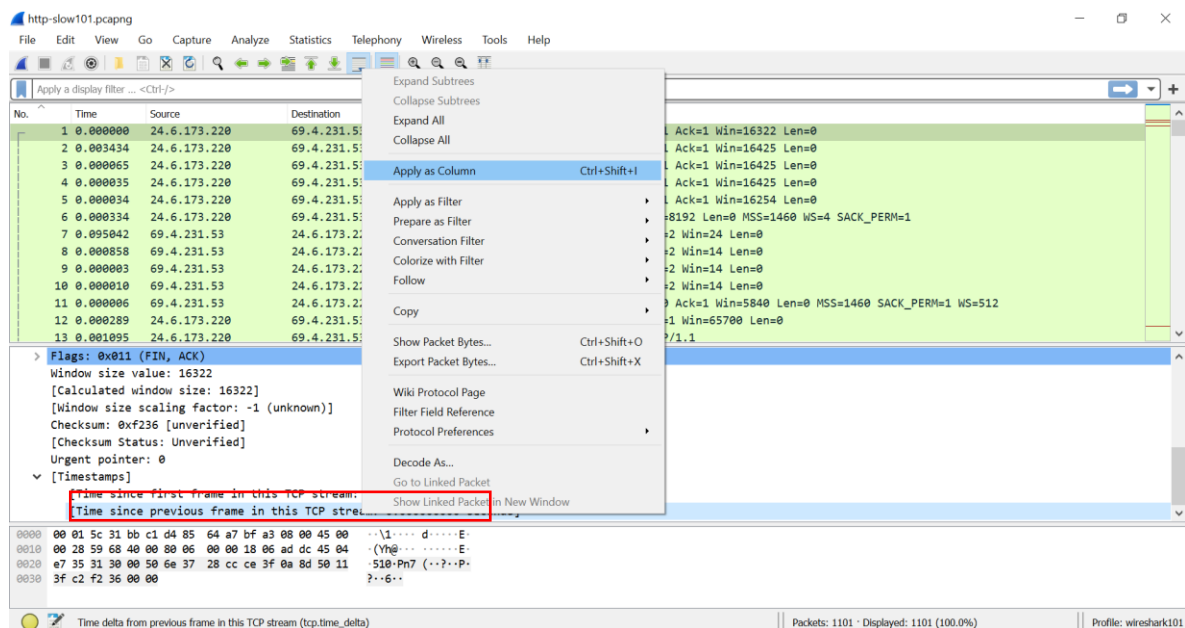
En la barra donde nos aparecen los nombres daremos click derecho y desmarcaremos la que se llama "LENGHT"



En la sección de *view* marcaremos la que se llama **SECONDS SINCE PREVIOUS CAPTURED PACKET**



Daremos click derecho y aplicaremos como una columna



Nos aparecerá como una nueva columna

The screenshot shows the Wireshark interface with a packet capture of an HTTP connection. A new column, 'Time since previous frame in this TCP stream', has been added to the packet list pane and is highlighted with a red box. The packet list shows 13 packets, with the first packet being a FIN, ACK. The packet details pane shows the flags, window size, and checksum for the first packet. The packet bytes pane shows the raw data of the first packet.

No.	Time	Source	Destination	Protocol	Time since previous frame in this TCP stream	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP	0.000000000	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16322 Len=0
2	0.003434	24.6.173.220	69.4.231.53	TCP	0.000000000	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
3	0.000065	24.6.173.220	69.4.231.53	TCP	0.000000000	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
4	0.000035	24.6.173.220	69.4.231.53	TCP	0.000000000	12590 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
5	0.000034	24.6.173.220	69.4.231.53	TCP	0.000000000	12594 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16254 Len=0
6	0.000334	24.6.173.220	69.4.231.53	TCP	0.000000000	12607 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
7	0.095042	69.4.231.53	24.6.173.220	TCP	0.095410000	80 → 12590 [ACK] Seq=1 Ack=2 Win=24 Len=0
8	0.000858	69.4.231.53	24.6.173.220	TCP	0.096300000	80 → 12595 [ACK] Seq=1 Ack=2 Win=14 Len=0
9	0.000003	69.4.231.53	24.6.173.220	TCP	0.096237000	80 → 12594 [ACK] Seq=1 Ack=2 Win=14 Len=0
10	0.000010	69.4.231.53	24.6.173.220	TCP	0.096381000	80 → 12591 [ACK] Seq=1 Ack=2 Win=14 Len=0
11	0.000006	69.4.231.53	24.6.173.220	TCP	0.095919000	80 → 12607 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460 SACK_PERM=1
12	0.000289	24.6.173.220	69.4.231.53	TCP	0.000289000	12607 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
13	0.001095	24.6.173.220	69.4.231.53	HTTP	0.001095000	GET /viewvc/trunk-1.6/ HTTP/1.1

Con click derecho en la sección de *edit column* podremos hacer diversos cambios

The screenshot shows the Wireshark interface with the 'Edit Column' context menu open for the 'Time since previous frame in this TCP stream' column. The menu options include: Align Left, Align Center, Align Right, Column Preferences..., Edit Column (highlighted), Resize to Contents, Resize Column to Width..., Resolve Names, No. (checked), Time (checked), Source (checked), Destination (checked), Protocol (checked), Length (checked), Time since previous frame in this TCP stream (checked), Info (checked), and Remove this Column. The packet list and details pane are visible in the background.

Cambiaremos el nombre que tiene por defecto a “TCP DELTA”

The screenshot shows the Wireshark interface with the display filter set to 'tcp.time\_delta'. The packet list shows 11 packets, with the first packet selected. The packet details pane shows the selected packet's structure, including the Ethernet II header, Internet Protocol Version 4 header, and Transmission Control Protocol header. The packet bytes pane shows the raw data of the selected packet.

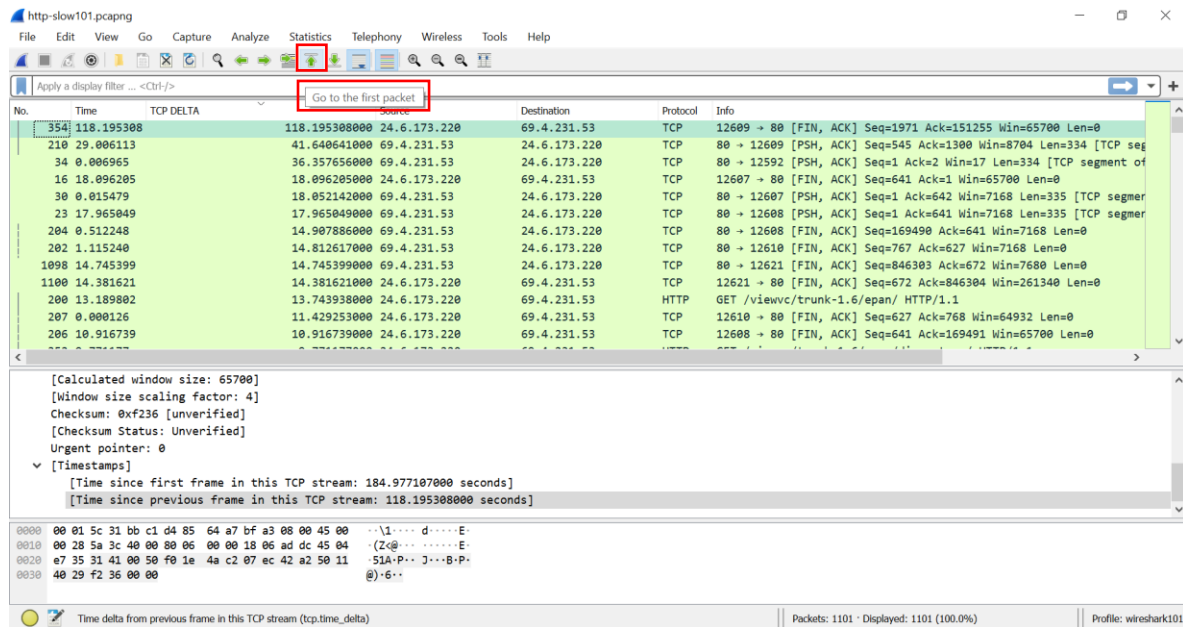
No.	Time	Source	Destination	Protocol	Time since previous frame in this TCP stream	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP	0.000000000	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16322 Len=0
2	0.003434	24.6.173.220	69.4.231.53	TCP	0.000000000	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
3	0.000065	24.6.173.220	69.4.231.53	TCP	0.000000000	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
4	0.000035	24.6.173.220	69.4.231.53	TCP	0.000000000	12590 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
5	0.000034	24.6.173.220	69.4.231.53	TCP	0.000000000	12594 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16254 Len=0
6	0.000334	24.6.173.220	69.4.231.53	TCP	0.000000000	12607 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
7	0.095042	69.4.231.53	24.6.173.220	TCP	0.095410000	80 → 12590 [ACK] Seq=1 Ack=2 Win=24 Len=0
8	0.000858	69.4.231.53	24.6.173.220	TCP	0.096303000	80 → 12595 [ACK] Seq=1 Ack=2 Win=14 Len=0
9	0.000003	69.4.231.53	24.6.173.220	TCP	0.096237000	80 → 12594 [ACK] Seq=1 Ack=2 Win=14 Len=0
10	0.000010	69.4.231.53	24.6.173.220	TCP	0.096381000	80 → 12591 [ACK] Seq=1 Ack=2 Win=14 Len=0
11	0.000006	69.4.231.53	24.6.173.220	TCP	0.095919000	80 → 12607 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460 SACK_F

Con dos clics derechos en TCP DELTA podremos volver al no.1

The screenshot shows the Wireshark interface with the display filter set to 'tcp.time\_delta'. The packet list shows 11 packets, with the first packet selected. The packet details pane shows the selected packet's structure, including the Ethernet II header, Internet Protocol Version 4 header, and Transmission Control Protocol header. The packet bytes pane shows the raw data of the selected packet.

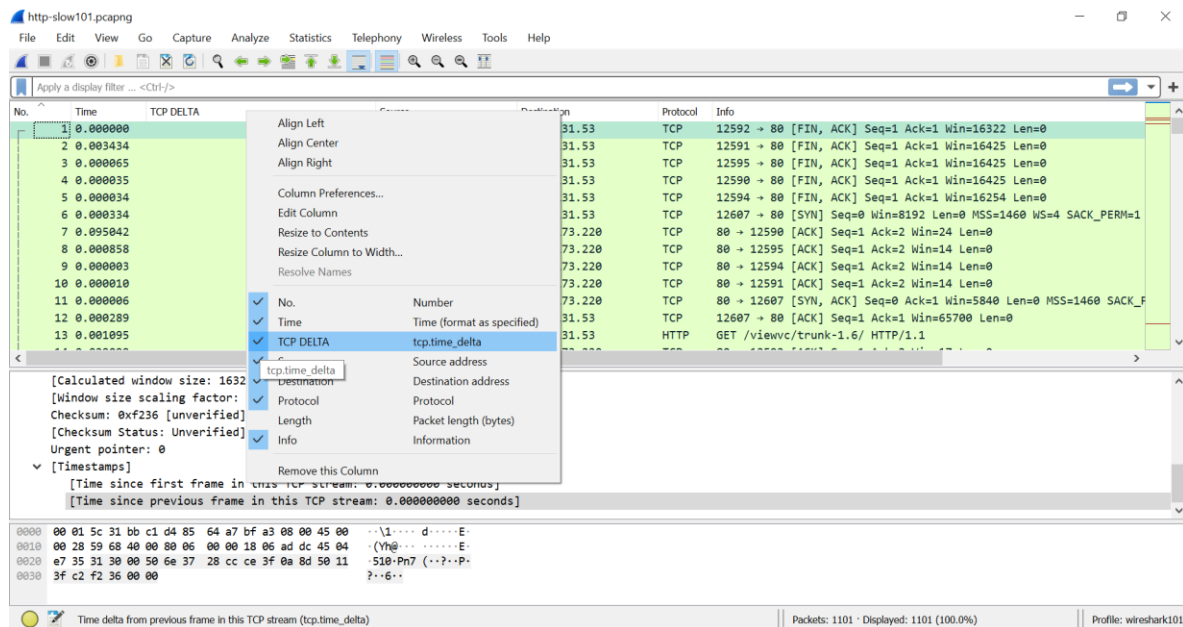
No.	Time	Source	Destination	Protocol	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16322 Len=0
2	0.003434	24.6.173.220	69.4.231.53	TCP	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
3	0.000065	24.6.173.220	69.4.231.53	TCP	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
4	0.000035	24.6.173.220	69.4.231.53	TCP	12590 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
5	0.000034	24.6.173.220	69.4.231.53	TCP	12594 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16254 Len=0
6	0.000334	24.6.173.220	69.4.231.53	TCP	12607 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
17	0.008281	24.6.173.220	69.4.231.53	TCP	12608 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
26	0.007718	24.6.173.220	69.4.231.53	TCP	80 → 12593 [PSH, ACK] Seq=1 Ack=1 Win=17 Len=334 [TCP segment of
44	0.009983	24.6.173.220	69.4.231.53	TCP	12609 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
62	0.020614	24.6.173.220	69.4.231.53	TCP	12610 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
355	0.003224	24.6.173.220	69.4.231.53	TCP	12621 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
557	0.000001	69.4.231.53	24.6.173.220	TCP	80 → 12621 [ACK] Seq=210600 Ack=672 Win=7680 Len=1460 [TCP segme
580	0.000001	69.4.231.53	24.6.173.220	TCP	80 → 12621 [ACK] Seq=238340 Ack=672 Win=7680 Len=1460 [TCP segme

Con la flechita nos dirigiremos al número 354 que es el ultimo



Wireshark interface showing packet 354 selected. The display filter bar has a red box around the "Go to the first packet" button. The packet list shows packet 354 at time 118.195308. The packet details pane shows TCP window size 65700 and various flags. The packet bytes pane shows the raw data.

Volvemos al número 1 y ahora desmarcaremos la columna de TCP DELTA dando click derecho en la barra, con eso desaparecerá de ahí.



Wireshark interface showing the context menu for the TCP DELTA column. The menu options include: Align Left, Align Center, Align Right, Column Preferences..., Edit Column, Resize to Contents, Resize Column to Width..., Resolve Names, No. (checked), Time (checked), TCP DELTA (checked), tcp.time\_delta (checked), Source address, Destination address, Protocol, Length, Info, and Remove this Column. The packet list shows packet 1 selected at time 0.000000.