

Instituto Tecnológico de Cancún

Ingeniería en Sistemas Computacionales

Fundamentos de Telecomunicaciones

Lab35 - Identify an Overloaded Client

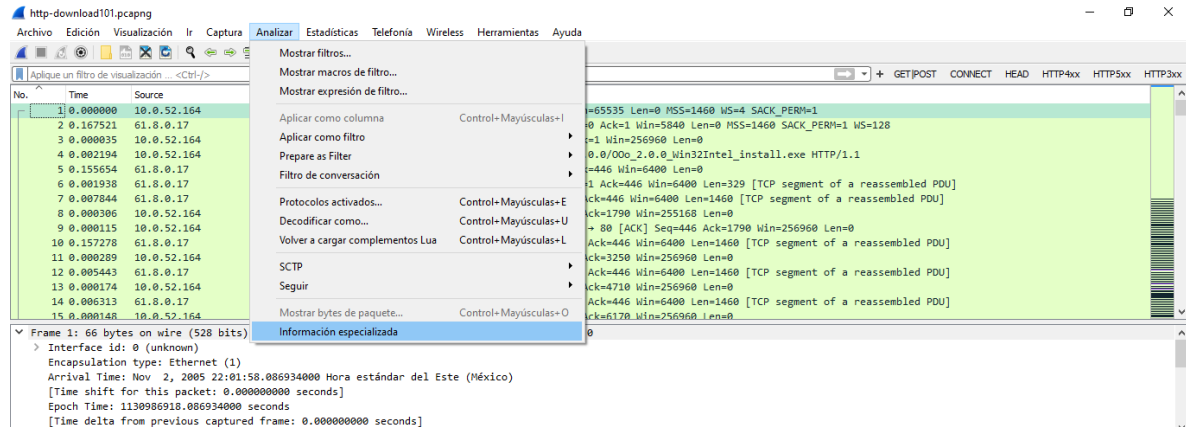
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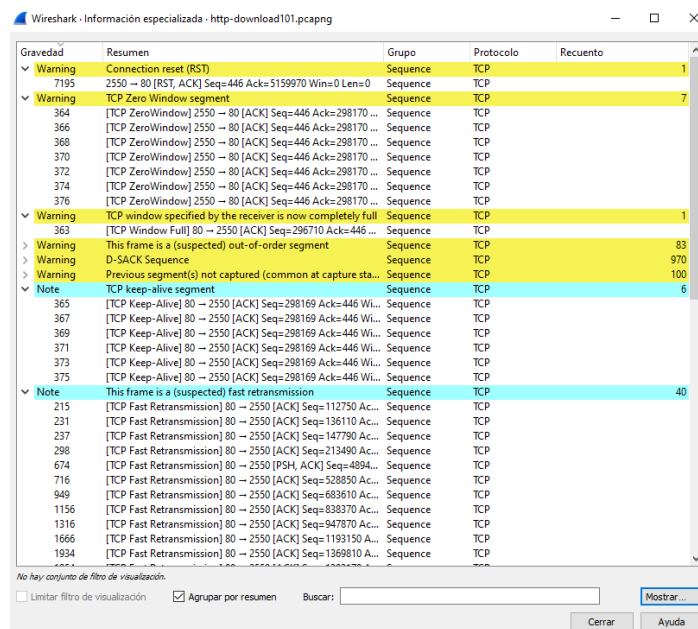
Lab35 - Identify an Overloaded Client

1 Abrimos el archivo http-download101.pcapng

2 Click en Analizar>Expert Information



3 Expandimos las secciones Warn y Note para detectar los problemas.



4 En la sección de Warn le damos click en el 363: TCP window specified by receiver is now completely full. Esto indica que el cliente se quedará sin espacio de búfer

The screenshot displays the Wireshark interface with a packet capture of a TCP connection. The left pane shows the packet list with packet 363 highlighted. The middle pane shows the packet details for packet 363, specifically the TCP window field. The right pane shows the packet list with packet 363 highlighted.

Packet List (Left Pane):

No.	Time	Source	Destination	Protocol	Info
363	0.006211	61.8.0.17	10.0.52.164	TCP	[TCP Window ...]
364	0.006441	10.0.52.164	61.8.0.17	TCP	[TCP Zero ...]
365	0.006703	61.8.0.17	10.0.52.164	TCP	[TCP Keep- ...]
366	0.006936	10.0.52.164	61.8.0.17	TCP	[TCP Zero ...]
367	1.133508	61.8.0.17	10.0.52.164	TCP	[TCP Keep- ...]
368	0.006936	10.0.52.164	61.8.0.17	TCP	[TCP Zero ...]
369	2.198812	61.8.0.17	10.0.52.164	TCP	[TCP Keep- ...]
370	0.006938	10.0.52.164	61.8.0.17	TCP	[TCP Zero ...]
371	4.128068	61.8.0.17	10.0.52.164	TCP	[TCP Keep- ...]
372	0.006939	10.0.52.164	61.8.0.17	TCP	[TCP Zero ...]
373	0.006497	61.8.0.17	10.0.52.164	TCP	[TCP Keep- ...]
374	0.006939	10.0.52.164	61.8.0.17	TCP	[TCP Zero ...]
375	16.074234	61.8.0.17	10.0.52.164	TCP	[TCP Keep- ...]
376	0.006937	10.0.52.164	61.8.0.17	TCP	[TCP Zero ...]
377	0.115002	10.0.52.164	61.8.0.17	TCP	[TCP Window ...]

Packet Details (Middle Pane):

[Seq/ACK analysis]

- [IRTT: 0.167556000 seconds]
- [Bytes in flight: 2920]
- [Bytes sent since last PSH flag: 64240]

[TCP Analysis Flags]

- [Expert Info (Warning/Sequence): TCP window specified by the receiver is now completely full]

Packet List (Right Pane):

Paquete	Resumen	Grupo	Protocolo	Recuento
Warning	Connection reset (RST)	Sequence	TCP	1
7195	2550 → 80 [RST, ACK] Seq=446 Ack=5159970 Win=0 Len=0	Sequence	TCP	
Warning	TCP Zero Window segment	Sequence	TCP	7
364	[TCP ZeroWindow] 2550 → 80 [ACK] Seq=446 Ack=298170 ...	Sequence	TCP	
366	[TCP ZeroWindow] 2550 → 80 [ACK] Seq=446 Ack=298170 ...	Sequence	TCP	
368	[TCP ZeroWindow] 2550 → 80 [ACK] Seq=446 Ack=298170 ...	Sequence	TCP	
370	[TCP ZeroWindow] 2550 → 80 [ACK] Seq=446 Ack=298170 ...	Sequence	TCP	
372	[TCP ZeroWindow] 2550 → 80 [ACK] Seq=446 Ack=298170 ...	Sequence	TCP	
374	[TCP ZeroWindow] 2550 → 80 [ACK] Seq=446 Ack=298170 ...	Sequence	TCP	
376	[TCP ZeroWindow] 2550 → 80 [ACK] Seq=446 Ack=298170 ...	Sequence	TCP	
Warning	TCP window specified by the receiver is now completely full	Sequence	TCP	1
363	[TCP Window Full] 80 → 2550 [ACK] Seq=296710 Ack=446 ...	Sequence	TCP	
Warning	This frame is a (suspected) out-of-order segment	Sequence	TCP	83
Warning	D-ACK Sequence	Sequence	TCP	970
Warning	Previous segment(s) not captured (common at capture sta...	Sequence	TCP	100
Note	TCP keep-alive segment	Sequence	TCP	6
365	[TCP Keep-Alive] 80 → 2550 [ACK] Seq=298169 Ack=446 Wi...	Sequence	TCP	
367	[TCP Keep-Alive] 80 → 2550 [ACK] Seq=298169 Ack=446 Wi...	Sequence	TCP	
369	[TCP Keep-Alive] 80 → 2550 [ACK] Seq=298169 Ack=446 Wi...	Sequence	TCP	
371	[TCP Keep-Alive] 80 → 2550 [ACK] Seq=298169 Ack=446 Wi...	Sequence	TCP	
373	[TCP Keep-Alive] 80 → 2550 [ACK] Seq=298169 Ack=446 Wi...	Sequence	TCP	
375	[TCP Keep-Alive] 80 → 2550 [ACK] Seq=298169 Ack=446 Wi...	Sequence	TCP	
Note	This frame is a (suspected) fast retransmission	Sequence	TCP	40
215	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=112750 Ac...	Sequence	TCP	
231	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=136110 Ac...	Sequence	TCP	
237	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=147790 Ac...	Sequence	TCP	
298	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=213490 Ac...	Sequence	TCP	
674	[TCP Fast Retransmission] 80 → 2550 [PSH, ACK] Seq=4894...	Sequence	TCP	
716	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=528850 Ac...	Sequence	TCP	
949	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=683610 Ac...	Sequence	TCP	
1156	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=838370 Ac...	Sequence	TCP	
1316	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=947870 Ac...	Sequence	TCP	
1666	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=1193150 A...	Sequence	TCP	
1934	[TCP Fast Retransmission] 80 → 2550 [ACK] Seq=1369810 A...	Sequence	TCP	