EJERCICIOS WIRESHARK – UNIDAD 2 - SPRINT 2

Hacer una trama de una página web

- 1. Ir a la página web de www.thebridge.tech
- 2. Capturar la trama con Wireshark
- 3. Aplicar los siguientes filtros en Wireshark:
 - Filtrar los requerimientos ejecutado desde su dirección IP
 - Filtrar los requerimientos que tengan HTTP.
 - Filtrar los requerimientos que sean del protocolo DNS.
 - Filtrar los requerimientos ejecutado desde su dirección IP y que tengan el protocolo distinto a DNS.

■ Filtro 1

Time	Source	Destination	Protocol	ength Info
1 0.000000000	10.0.2.4	142.250.185.3	TCP	56 37848 → 8
3 1.227704710	10.0.2.4	34.36.165.17	TLSv1.2	95 Applicati
5 1.236920698	10.0.2.4	34.36.165.17	TCP	56 37522 → 4
6 1.283577408	10.0.2.4	142.250.184.3	TCP	56 59652 → 8
7 1.283595495	10.0.2.4	142.250.185.3	TCP	56 39198 → 8
10 1.535655736	10.0.2.4	142.250.184.3	TCP	56 59638 → 8
11 1.535775978	10.0.2.4	2.21.39.19	TCP	56 56510 → 8
14 2.303056364	10.0.2.4	2.21.39.17	TCP	56 57058 → 8
16 2.559030926	10.0.2.4	192.229.221.95	TCP	56 52496 → 8
17 2.559050102	10.0.2.4	2.21.39.17	TCP	56 57048 → 8
20 2.628192564	10.0.2.4	142.250.185.3	TCP	56 [TCP Prev
23 2.637768835	10.0.2.4	142.250.185.3	TCP	56 37848 → 8
24 4.229228311	10.0.2.4	34.117.188.166	TLSv1.2	95 Applicati
25 4.229270138	10.0.2.4	34.117.188.166	TLSv1.2	95 Applicati
29 4.238870671	10.0.2.4	34.117.188.166	TCP	56 38698 → 4
31 4.240095851	10.0.2.4	34.117.188.166	TCP	56 38706 → 4
32 4.634706476	10.0.2.4	2.21.39.19	TCP	56 [TCP Prev
35 4.644372274	10.0.2.4	2.21.39.19	TCP	56 56510 → 8
36 5.888300837	10.0.2.4	18.154.48.19	TCP	56 46554 → 8
38 6.911793159	10.0.2.4	108.157.118.26	TCP	56 35148 → 8
40 7.167707680	10.0.2.4	18.154.40.210	TCP	56 54768 → 8
42 7.423495150	10.0.2.4	18.154.40.210	TCP	56 54782 → 8
43 7.423577648	10.0.2.4	104.18.38.233	TCP	56 52088 →
46 9.230772822	10.0.2.4	34.107.243.93	TLSv1.2	95 Applicat:
48 9.240249621	10.0.2.4	34.107.243.93	TCP	56 55008 → 4
49 10.232252009	10.0.2.4	34.117.188.166	TLSv1.2	95 Applicat:
50 10.232301096	10.0.2.4	34.117.188.166	TLSv1.2	95 Applicat:
52 10.241286026	10.0.2.4	34.117.188.166	TCP	56 38706 →
53 10.241448220	10.0.2.4	34.117.188.166	TLSv1.2	95 Applicat:
55 10.241576397	10.0.2.4	34.117.188.166	TLSv1.2	80 Applicat: 56 38706 → 4
56 10.241592796	10.0.2.4	34.117.188.166	TCP TCP	
58 10.241670568	10.0.2.4 10.0.2.4	34.117.188.166 34.117.188.166		56 38698 → 4 95 Applicat:
60 10.241851495 62 10.241919753	10.0.2.4	34.117.188.166	TLSv1.2 TLSv1.2	80 Applicat
63 10.241934886	10.0.2.4	34.117.188.166	TCP	56 38698 → 4
66 11.281588721	10.0.2.4	34.209.165.250	TLSv1.2	94 Applicat:
69 11.456899159	10.0.2.4	34.209.165.250	TCP	56 55150 → 4
70 11.520525994		142.250.185.3	TCP	56 [TCP Dup
71 11.520605266		142.250.184.3	TCP	56 [TCP Dup
	n wire (448 bits), 56 bytes captur			
inux cooked capture		eu (440 B103) en 1110er	race any, ia	ŭ
Packet type: Sent				
	s type: Ethernet (1)			
Link-layer address				
	tec_1c:12:50 (08:00:27:1c:12:50)			
Unused: 0000				
Protocol: IPv4 (0:	x0800)			
	ersion 4, Src: 10.0.2.4, Dst: 142.	250.185.3		
	l Protocol, Src Port: 37848, Dst P			

Se ha usado el comando ip.src == 10.0.2.4 apareciendo solo los paquetes que tienen mi dirección de origen.

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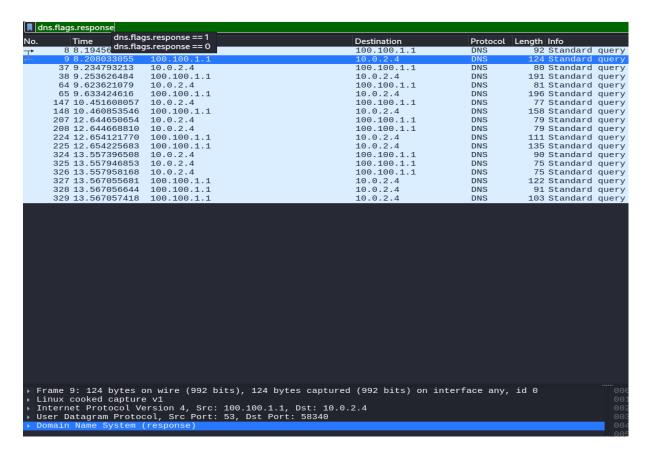
■ Filtro 2

	tls				
No.	. Time	Source	Destination	Protocol	Length Info
	3 0.305568	10.0.2.4	52.24.78.187	TLSv1.2	102 Application Data
	4 0.484791	52.24.78.187	10.0.2.4	TLSv1.2	
	17 3.116263	79.116.255.16	10.0.2.4	TLSv1.2	
	19 3.116376	10.0.2.4	79.116.255.16	TLSv1.2	
	21 3.116620	10.0.2.4	79.116.255.16	TLSv1.2	
	36 7.314789	10.0.2.4	104.16.117.116	TLSv1.2	
	37 7.323917	104.16.117.116	10.0.2.4	TLSv1.2	
	49 8.315149	10.0.2.4	142.250.200.99	TLSv1.2	
	50 8.315189	10.0.2.4	93.184.221.165	TLSv1.2	
	51 8.325401	142.250.200.99	10.0.2.4	TLSv1.2	
	53 8.326116	93.184.221.165	10.0.2.4	TLSv1.2	
	57 10.321598	10.0.2.4	142.251.37.51	TLSv1.2	
	58 10.321650	10.0.2.4	18.154.22.112	TLSv1.2	
	59 10.331865	18.154.22.112	10.0.2.4	TLSv1.2	
	61 10.377140	142.251.37.51	10.0.2.4	TLSv1.2	
	63 10.377192	10.0.2.4	34.209.165.250	TLSv1.2	
	64 10.552036	34.209.165.250	10.0.2.4	TLSv1.2	
	72 12.322252	10.0.2.4	34.36.165.17	TLSv1.2	
	74 12.332195	34.36.165.17	10.0.2.4	TLSv1.2	
	76 12.379218	10.0.2.4	34.254.7.187	TLSv1.2	
	80 14.327200	10.0.2.4	13.107.42.14	TLSv1.2	
	82 14.336565	13.107.42.14	10.0.2.4	TLSv1.2	
	88 16.328813	10.0.2.4	52.50.93.182	TLSv1.2	
	90 16.379681	52.50.93.182	10.0.2.4	TLSv1.2	
	98 19.332027	10.0.2.4	35.190.43.134	TLSv1.2	
	99 19.341479	35.190.43.134	10.0.2.4	TLSv1.2	
	101 20.332305	10.0.2.4	104.16.141.209	TLSv1.2	
	102 20.341575	104.16.141.209	10.0.2.4	TLSv1.2	
	107 22.556450	3.5.72.136	10.0.2.4	SSLv2	11736 Encrypted Data
	109 22.556487	3.5.72.136	10.0.2.4	SSLv2	19036 Encrypted Data
	111 22.556509	3.5.72.136	10.0.2.4	SSLv2	16116 Encrypted Data
	113 22.556623	3.5.72.136	10.0.2.4	TCP	11736 [TCP segment of a
	115 22.556643	3.5.72.136	10.0.2.4	SSLv2	5896 Encrypted Data
	117 22.556893	3.5.72.136	10.0.2.4	TCP	1516 [TCP segment of a
	118 22.556894	3.5.72.136	10.0.2.4	SSLv2	30716 Encrypted Data
	120 22.556967	3.5.72.136	10.0.2.4	TCP	8816 [TCP segment of a
	121 22.556968	3.5.72.136	10.0.2.4	TCP	5896 [TCP segment of a
	123 22.557050	3.5.72.136	10.0.2.4	TCP	11736 [TCP segment of a
	125 22.557142 Frame 3: 102 bytes	3.5.72.136 on wire (816 hits) 1	10.0.2.4 02 bytes captured (816 bits)	TCP	1351 [TCP segment of a
	Linux cooked captu		oz bycos captarea (olo bitto)		0010
		Version 4, Src: 10.0.2	/ Dst · 52 2/ 78 187		0020
			52198, Dst Port: 443, Seq: 1, Ack: 1	l len: 46	
	Transport Layer Sec		02100, 53c 101c. 440, 5cq. 1, Ack	L, LCII. 40	0040
			Protocol: Hypertext Transfer Protoc	n1	. 0050
		Application Data (23)			0060
	Version: TLS 1				
	Length: 41				
		ication Data: 00000000	00000000528545bb69e4e837292edf72a2c81	a6b2875ab7	796edc700a9b0ea5
		ata Protocol: Hyperte		abbeor oub i	
	[/ipprizoacion b	The state of the s			
•	Record Layer (tls.re	ecord), 46 byte(s)			
	, , ,	, , , , ,			

Se ha usado el comando "tls" en vez de "http", ya que la pagina web capturada usa el protocolo cifrado "https", por lo que no podremos verlo, pero si los protocolos SSL/TLS.

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■ Filtro 3



Se ha usado el comando "dns.flags.response" para filtrar visualmente tanto las solicitudes (==0) y las respuestas (==1) del protocolo DNS.

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■ Filtro 4:

Time	Carran	Destination	Duntanal	Langeth India
Time 42 9.264339267	Source	Destination 18,154,48,66	TLSv1.3	Length Info
	10.0.2.4			585 Client Hello (S
44 9.274533535	10.0.2.4 10.0.2.4	18.154.48.66	TCP TLSv1.3	56 44820 → 443 [AC 120 Change Cipher S
45 9.275018803		18.154.48.66		
46 9.275958657	10.0.2.4	18.154.48.66	TLSv1.3	226 Application Dat
47 9.276007263	10.0.2.4	18.154.48.66	TLSv1.3	1813 Application Dat
50 9.276683282	10.0.2.4	18.154.48.66	TLSv1.3	212 Application Dat
51 9.277151966	10.0.2.4	18.154.48.66	TLSv1.3	215 Application Dat
53 9.277302714	10.0.2.4	18.154.48.66	TLSv1.3	213 Application Dat
54 9.277436294	10.0.2.4	18.154.48.66	TLSv1.3	212 Application Dat
57 9.327415136	10.0.2.4	18.154.48.66	TCP	56 44820 → 443 [AC
59 9.327600415	10.0.2.4	18.154.48.66	TCP	56 44820 → 443 [AC
60 9.327710783	10.0.2.4	18.154.48.66	TLSv1.3 TLSv1.2	87 Application Dat 936 Application Dat
63 9.621186895	10.0.2.4	34.254.7.187	TCP	
66 9.633891461 68 9.645546648	10.0.2.4	13.107.42.14 13.107.42.14	TCP	76 37666 → 443 [SY 56 37666 → 443 [AC
69 9.646759874	10.0.2.4	13.107.42.14	TLSv1.2	714 Client Hello (S
71 9.658014834	10.0.2.4	13.107.42.14	TCP	714 CLIENT HELLO (S 56 37666 → 443 [AC
72 9.658710426				107 Change Cipher S
	10.0.2.4	13.107.42.14	TLSv1.2	
73 9.658945992	10.0.2.4 10.0.2.4	13.107.42.14	TLSv1.2 TLSv1.2	233 Application Dat
74 9.658966212		13.107.42.14		359 Application Dat 1631 Application Dat
75 9.658986433	10.0.2.4	13.107.42.14	TLSv1.2	
79 9.667531373	10.0.2.4	13.107.42.14	TLSv1.2	94 Application Dat
81 9.711652794	10.0.2.4	13.107.42.14	TCP	56 37666 → 443 [AC
83 9.815153121	10.0.2.4	13.107.42.14	TCP	56 37666 → 443 [AC
86 9.991388067	10.0.2.4	18.154.48.66	TCP	56 44820 → 443 [AC
89 9.991673076	10.0.2.4	18.154.48.66	TCP	56 44820 → 443 [AC
91 10.000230744		18.154.48.66	TCP	56 44820 → 443 [AC
96 10.015678082		18.154.48.66	TCP	56 44820 → 443 [AC
97 10.015692333		18.154.48.66	TCP	56 44820 → 443 [AC
98 10.015698859		18.154.48.66	TCP TCP	56 44820 → 443 [AC
101 10.015892548		18.154.48.66		56 44820 → 443 [AC
106 10.056923991		18.154.48.66	TCP	56 44820 → 443 [AC
107 10.056937563		18.154.48.66	TCP	56 44820 → 443 [AC
108 10.056943284		18.154.48.66	TCP	56 44820 → 443 [AC
111 10.057432203		18.154.48.66	TCP	56 44820 → 443 [AC
116 10.070441070		18.154.48.66	TCP	56 44820 → 443 [AC
117 10.070459192		18.154.48.66	TCP	56 44820 → 443 [AC
120 10.070517895		18.154.48.66	TCP	56 44820 → 443 [AC
123 10.070780835		18.154.48.66	TCP	56 44820 → 443 [AC
		76 bytes captured (608 bits)		000
inux cooked captu		0.4. 0-1. 40.407.40.44		001
		2.4, Dst: 13.107.42.14		002
		:: 37666, Dst Port: 443, Seq: 0, Len:	U	003
Source Port: 376				004
Destination Port				
[Stream index: 4		MITH DATA (47)]		
	mpleteness: Complete,	WITH_DATA (4/)]		
[TCP Segment Len				
Sequence Number:		ence number)		
	(raw): 1036986120			

Aquí se ha usado dos filtros unidos, en primer lugar, el filtrado la ip de origen de la maquina (ip.src ==10.0.2.4) y después, para que aparezcan todos los protocolos menos el DNS (! dns), uniéndolos por "&&":

[&]quot;lp.src == 10.0.2.4 && !dns"