# **EJERCICIOS DE WIRESHARK**

## **Protocolos**

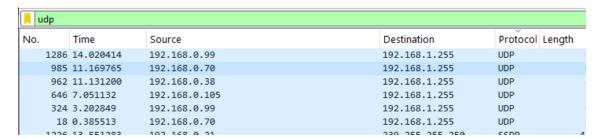
## 1. Todo el tráfico TCP:

## Тср

, tcp				
No.	Time	Source	Destination	Protocol Lengtl
8	33 1.403102	192.168.0.48	192.168.0.71	TCP
8	34 1.406502	192.168.0.71	140.82.112.25	TCP
8	35 1.522140	140.82.112.25	192.168.0.71	TCP
29	96 2.935863	192.168.0.71	5.188.148.14	TCP

## 2. Todo el tráfico UDP:

## Udp



# 3. Tráfico ICMP (ping):

## Icmp

icmp	<i>r</i> 6				$\times$
No.	Time	Source	Destination	Protocol Length	Info
1	1 1.406949	fe80::8ff:eb43:b2a5:b8d4	ff02::fb	ICMPv6	86 Multicast Listener Report
12	3 6.860518	fe80::a697:33ff:fe4e:9fc4	ff02::1	ICMPv6	86 Multicast Listener Query
12	5 6.860963	fe80::bd6d:c997:ad2a:347	ff02::c	ICMPv6	86 Multicast Listener Report
12	7 6.909645	fe80::8859:863:62f9:5cfd	ff02::1:fff9:5cfd	ICMPv6	86 Multicast Listener Report
12	8 6.909645	fe80::8859:863:62f9:5cfd	ff02::1:3	ICMPv6	86 Multicast Listener Report
12	9 6.909744	fe80::8859:863:62f9:5cfd	ff02::fb	ICMPv6	86 Multicast Listener Report
13	1 6.995270	fe80::bd6d:c997:ad2a:347	ff02::1:ff2a:347	ICMPv6	86 Multicast Listener Report
13	2 7.064455	fe80::c3c8:bb76:4a08:d16b	ff02::1:ff08:d16b	ICMPv6	86 Multicast Listener Report
13	4 7.095308	fe80::79ec:187a:befc:b32e	ff02::1:fffc:b32e	ICMPv6	86 Multicast Listener Report
13	5 7.100668	fe80::14b5:ab9c:d6e4:2fc7	ff02::1:ffe4:2fc7	ICMPv6	86 Multicast Listener Report

# 4. Tráfico HTTP (puerto 80):

http

# tcp.port == 80 No. Time Source

# 5. Tráfico HTTPS (TLS/SSL):

Tls

tcp.	port == 443				
No.	Time	Source	Destination	Protocol Length	n Info
	76 1.545035	140.82.112.25	192.168.0.71	TCP	60 443 → 62738 [ACK] Seq=26 Ack=30 Win=7
	87 3.816533	192.168.0.71	185.199.111.154	TCP	54 62735 → 443 [FIN, ACK] Seq=1 Ack=1 Wi
	88 3.816579	192.168.0.71	185.199.111.154	TCP	54 62736 → 443 [FIN, ACK] Seq=1 Ack=1 Wi
	89 3.816725	192.168.0.71	185.199.111.154	TCP	66 62743 → 443 [SYN] Seq=0 Win=64240 Ler
	90 3.829718	185.199.111.154	192.168.0.71	TCP	60 443 → 62735 [ACK] Seq=1 Ack=2 Win=271
1	92 3.829746	192.168.0.71	185.199.111.154	TCP	54 62735 → 443 [RST, ACK] Seq=2 Ack=25 W
No.	Time	Source	Destination	Protocol L	ength Info
15	10 122.897699	192.168.0.71	140.82.121.3	TLSv1.2	354 Application Data
15	12 123.058609	140.82.121.3	192.168.0.71	TLSv1.2	506 Application Data
15	14 123.106641	192.168.0.71	140.82.121.3	TLSv1.2	445 Application Data
15	17 123.323510	140.82.121.3	192.168.0.71	TLSv1.2	797 Application Data
15	19 123.371129	192.168.0.71	140.82.121.3	TLSv1.2	663 Application Data
15	21 123.584283	140.82.121.3	192.168.0.71	TLSv1.2	1015 Application Data

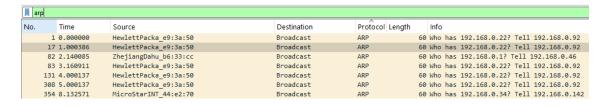
## 6. Tráfico DNS (puerto 53):

Dns

ud	udp.port == 53							
No.	Time	Source	Destination	Protocol Length				
	24 1.193512	192.168.0.71	80.58.61.254	DNS				
	25 1.193604	192.168.0.71	80.58.61.254	DNS				
-	26 1.214592	80.58.61.254	192.168.0.71	DNS :				
4	27 1.214958	80.58.61.254	192.168.0.71	DNS 2				

#### 7. Tráfico ARP:

Arp



# 8. Tráfico DHCP:

Bootp



# ♦ IPs

# 9. Cualquier tráfico de una IP concreta:

ip.addr == 192.168.1.10

ip.a	ip.addr == 192.168.0.1									
No.	Time	Source		Destination	Protocol	Length	In	0		
	31 1.889007	192.168.0.71		192.168.0.1	ICMP		74 Ec	ho (ping) red	quest	id=0x0001
	32 1.889220	192.168.0.1		192.168.0.71	ICMP		74 Ec	ho (ping) rep	oly	id=0x0001
	42 2.890582	192.168.0.71		192.168.0.1	ICMP		74 Ec	ho (ping) red	quest	id=0x0001
	43 2.891465	192.168.0.1		192.168.0.71	ICMP		74 Ec	ho (ping) rep	oly	id=0x0001

# 10. Solo tráfico de origen desde una IP:

ip.src == 192.168.1.10

ip.src == 192.168.0.1							
No.	Time	Source	Destination	Protocol	Length	Info	
4—	32 1.889220	192.168.0.1	192.168.0.71	ICMP	74	Echo (ping) r	reply
	43 2.891465	192.168.0.1	192.168.0.71	ICMP	74	Echo (ping) r	reply

## 11. Solo tráfico con destino a una IP:

ip.dst == 192.168.1.10

ip.	dst == 192.168.0.1							
No.	Time	Source	Destination	Protocol Le	ength	Info		
	31 1.889007	192.168.0.71	192.168.0.1	ICMP	74	Echo (ping) re	quest	id=0x0001,
	42 2.890582	192.168.0.71	192.168.0.1	ICMP	74	Echo (ping) re	auest	id=0x0001.

# 12. Tráfico entre dos IP específicas:

ip.src == 192.168.1.10 && ip.dst == 192.168.1.20

ip.	src == 192.168.0.1 8	έ& ip.dst == 192.168.0.71				
No.	Time	Source	Destination	Protocol Length	Info	
-	32 1.889220	192.168.0.1	192.168.0.71	ICMP	74 Echo (ping) reply	id=0x00
	43 2.891465	192.168.0.1	192.168.0.71	ICMP	74 Echo (ping) reply	id=0x00

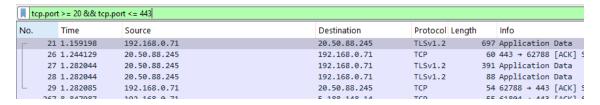
## Puertos

# 13. Tráfico en un puerto concreto (ej. 22 – SSH):



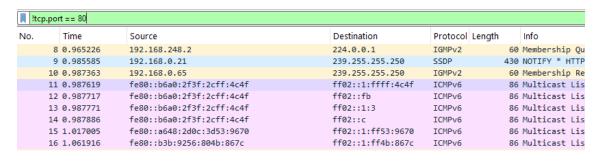
## 14. Tráfico en un rango de puertos (ej. 20 a 25):

tcp.port >= 20 && tcp.port <= 25



# 15. Tráfico NO en un puerto concreto (ej. todo excepto 80):

!tcp.port == 80



#### ♦ TCP avanzado

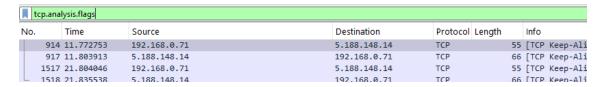
#### 16. Retransmisiones TCP:

tcp.analysis.retransmission



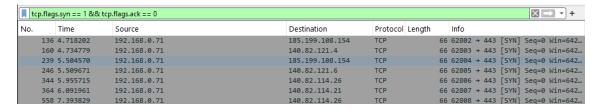
## 17. Paquetes TCP con errores:

tcp.analysis.flags



# 18. Solo handshakes TCP (SYN):

tcp.flags.syn == 1 && tcp.flags.ack == 0



### 19. Conexiones TCP reseteadas (RST):

tcp.flags.reset == 1



#### Otros filtros útiles

#### 20. Mostrar solo paquetes que contienen un texto (ej. "login"):

frame contains "login"

