Description

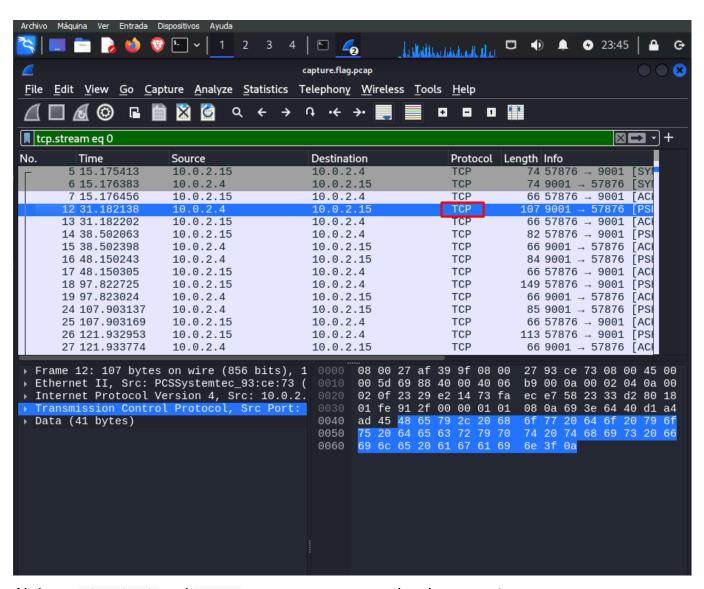
Download this packet capture and find the flag.

Download packet capture

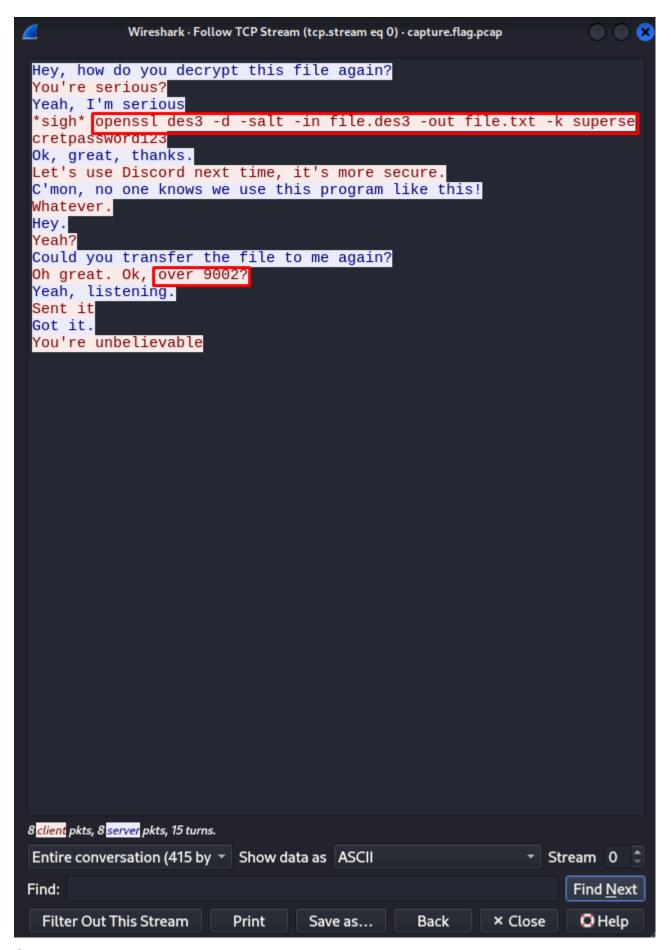
Hints

• All we know is that this packet capture includes a chat conversation and a file transfer.

Solución



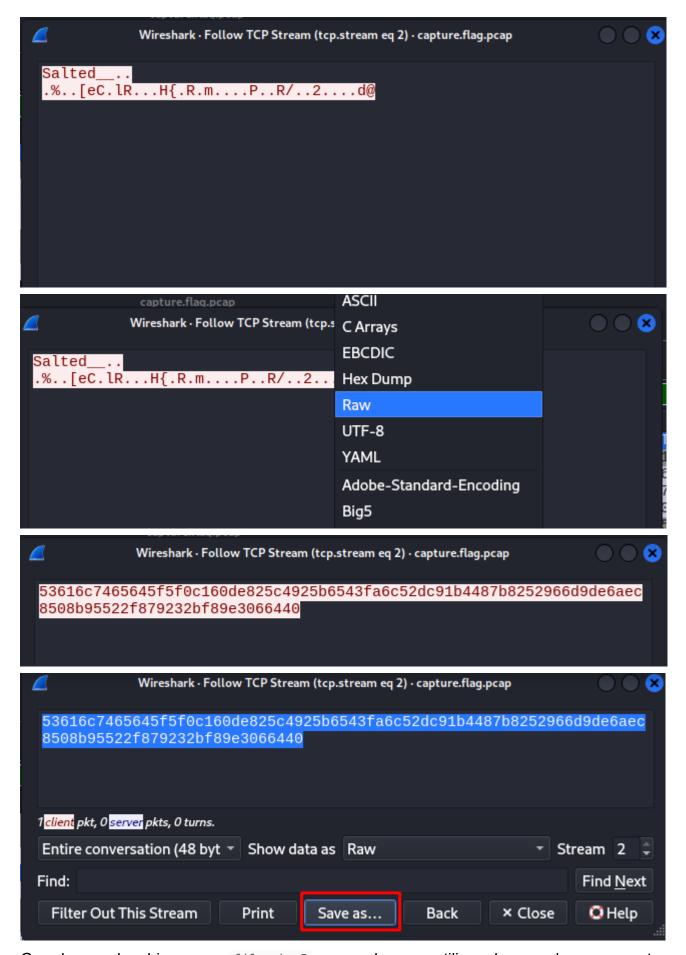
Abrimos wireshark y el .pcap, para comenzar a revisar los paquetes.



Se detecta esta conversación donde obtenemos un comando para desencriptar y un puerto donde se mandó un paquete que nos puede interesar.

Apply a display filter <ctrl-></ctrl->					
No.	Time	Source	Destination	Protocol	Length Info
	35 149.866683	10.0.2.4	10.0.2.15	TCP	66 9001 → 57876 [ACK] Seq=135 Ac
	36 163.189845	10.0.2.4	10.0.2.15	TCP	107 9001 → 57876 [PSH, ACK] Seq=1
	37 163.189875	10.0.2.15	10.0.2.4	TCP	66 57876 → 9001 [ACK] Seq=163 Ac
	38 165.383043	10.0.2.15	35.224.170.84	TCP	74 43928 → 80 [SYN] Seq=0 Win=64
	39 165.413349	35.224.170.84	10.0.2.15	TCP	60 80 → 43928 [SYN, ACK] Seq=0 A
	40 165.413399	10.0.2.15	35.224.170.84	TCP	54 43928 → 80 [ACK] Seq=1 Ack=1
	41 165.413654	10.0.2.15	35.224.170.84	HTTP	141 GET / HTTP/1.1
	42 165.654599	35.224.170.84	10.0.2.15	TCP	60 80 → 43928 [ACK] Seq=1 Ack=88
	43 165.944448	35.224.170.84	10.0.2.15	HTTP	202 HTTP/1.1 204 No Content
	44 165.944493	10.0.2.15	35.224.170.84	TCP	54 43928 → 80 [ACK] Seq=88 Ack=1
	45 165.944767	35.224.170.84	10.0.2.15	TCP	60 80 → 43928 [FIN, ACK] Seq=149
	46 165.944854	10.0.2.15	35.224.170.84	TCP	54 43928 → 80 [FIN, ACK] Seq=88
	47 165.945363	35.224.170.84	10.0.2.15	TCP	60 80 → 43928 [ACK] Seq=150 Ack=
	48 182.468120	10.0.2.15	10.0.2.4	TCP	91 57876 → 9001 [PSH, ACK] Seq=1
	49 182.468958	10.0.2.4	10.0.2.15	TCP	66 9001 → 57876 [ACK] Seq=176 Ac
	50 187.629665		PCSSystemtec_af:39:		60 Who has 10.0.2.15? Tell 10.0.
	51 187.629696	PCSSystemtec_af:39:	PCSSystemtec_93:ce:		42 10.0.2.15 is at 08:00:27:af:3
	52 197.944312	10.0.2.4	10.0.2.15	TCP	83 9001 → 57876 [PSH, ACK] Seq=1
	53 197.944369	10.0.2.15	10.0.2.4	TCP	66 57876 <u>9001</u> [ACK] Seq=188 Ac
	54 205.301478	10.0.2.15	10.0.2.4	TCP	74 56370 ₋ 9002 [SYN] Seq=0 Win=
	55 205.302375	10.0.2.4	10.0.2.15	TCP	74 9002 → 56370 [SYN, ACK] Seq=0
	56 205.302451	10.0.2.15	10.0.2.4	TCP	66 56370 → 9002 [ACK] Seq=1 Ack=
	57 205.302713	10.0.2.15	10.0.2.4	TCP	114 56370 → 9002 [PSH, ACK] Seq=1
	58 205.303662	10.0.2.4	10.0.2.15	TCP	66 9002 → 56370 [ACK] Seq=1 Ack=
	59 212.168371	10.0.2.15	10.0.2.4	TCP	74 57876 → 9001 [PSH, ACK] Seq=1
	60 212.169557	10.0.2.4	10.0.2.15	TCP	66 9001 → 57876 [ACK] Seq=193 Ac
	61 217.183803	10.0.2.4	10.0.2.15	TCP	66 9002 → 56370 [FIN, ACK] Seq=1
	62 217.184036	10.0.2.15	10.0.2.4	TCP	66 56370 → 9002 [FIN, ACK] Seq=4
L	63 217.184826	10.0.2.4	10.0.2.15	TCP	66 9002 → 56370 [ACK] Seq=2 Ack=
	64 227.003581	10.0.2.4	10.0.2.15	TCP	74 9001 → 57876 [PSH, ACK] Seq=1
	65 227.004032	10.0.2.15	10.0.2.4	TCP	66 57876 → 9001 [ACK] Seq=196 Ac
	66 228.031642	10.0.2.15	10.0.2.1	DNS	100 Standard query 0x93d0 AAAA co
	67 228.045014	10.0.2.1	10.0.2.15	DNS	100 Standard query response 0x93d
▶ Frame 54: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) ▶ Ethernet II, Src: PCSSystemtec_af:39:9f (08:00:27:af:39:9f), Dst: PCSSystemtec_93:ce:73 (€ 0010 00 3c ac					
				st: PCSSy	
		rsion 4, Src: 10.0.2.			0020 02 04 dc
→ Tra	ansmission Control	Protocol. Src Port:	56370. Dst Port: 9002	. Sea: 0.	Len: 0 0030 fa f0 18

Seguimos el stream con el puerto 9002 para inspeccionarlo.



Guardamos el archivo como: file.des3 y procedemos a utilizar el comando que encontramos

en la conversación openssl des3 -d -salt -in file.des3 -out file.txt -k
supersecretpassword123

Bandera

```
flag: picoCTF{nc_73115_411_dd54ab67}
```

Notas Adicionales

Referencias

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