# Al-Najah National University Department of Engineering and Information technology Computer Network and Information Security

# Packet Sniffing Spoofing

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# 1 Photo

#### 1. run tcpdump 1

```
### Total Control of C
```

Figure 1

## 2. captuerd.log 2

Figure 2

3. compile getinterface 3

```
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$ gcc -o GetInterface GetInterface.c
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$
```

Figure 3

4. run Getinterface 4

mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes\$ ./GetInterface enp0s3
Device: enp0s3
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes\$

Figure 4

5. compile sniffer 5

mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes\$ sudo gcc Sniffer.c -L/path/to/libpcap -lpcap -o Sniffer
[sudo] password for mohammed:
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes\$

Figure 5

6. run sniffer 6

```
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$ sudo ./Sniffer
```

Figure 6

7. run sniffer after port 23 to 80 7

```
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$ sudo ./Sniffer
Jacked a packet with length of [74]
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$
```

Figure 7

# 8. compile sniffex 8

Figure 8

### 9. run sniffex 9,10

```
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$ sudo ./sniffex
sniffex - Sniffer example using libpcap
Copyright (c) 2005 The Tcpdump Group
THERE IS ABSOLUTELY NO WARRANTY FOR THIS PROGRAM.
Device: enp0s3
Number of packets: 10
Filter expression: ip
Packet number 1:
       From: 10.0.2.15
         To: 34.217.242.117
   Protocol: TCP
   Src port: 37814
   Dst port: 443
Packet number 2:
       From: 34.217.242.117
        To: 10.0.2.15
   Protocol: TCP
   Src port: 443
   Dst port: 37814
Packet number 3:
       From: 10.0.2.15
         To: 192.168.1.1
   Protocol: UDP
Packet number 4:
       From: 192.168.1.1
         To: 10.0.2.15
   Protocol: UDP
Packet number 5:
       From: 10.0.2.15
         To: 192.168.1.1
   Protocol: UDP
Packet number 6:
       From: 192.168.1.1
         To: 10.0.2.15
   Protocol: UDP
Packet number 7:
       From: 10.0.2.15
        To: 192.168.1.1
```

Figure 9

```
Packet number 7:
       From: 10.0.2.15
         To: 192.168.1.1
   Protocol: UDP
Packet number 8:
       From: 192.168.1.1
        To: 10.0.2.15
   Protocol: UDP
Packet number 9:
       From: 10.0.2.15
         To: 192.168.1.1
   Protocol: UDP
Packet number 10:
       From: 192.168.1.1
        To: 10.0.2.15
   Protocol: UDP
Capture complete.
```

Figure 10

10. We try to connect a telnet connection between two virtual as figures 11,12 and 13 show, but login is incorrect.

Figure 11

```
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$ telnet 10.0.2.15 23
Trying 10.0.2.15...
Connected to 10.0.2.15.
Escape character is '^]'.
Ubuntu 20.04.2 LTS
mohammed-VirtualBox login: mohammed-VirtualBox
Password:
Login incorrect
mohammed-VirtualBox login:
```

Figure 12

```
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$ sudo ./sniffex sniffex - Sniffer example using libpcap Copyright (c) 2005 The Tcpdump Group THERE IS ABSOLUTELY NO WARRANTY FOR THIS PROGRAM.

Device: enp0s3
Number of packets: 10
Filter expression: tcp port 23
```

Figure 13

#### 11. create an ICMP echo 14

Figure 14

# 12. create an ICMP echo (using tcpdump) 15

```
mohammed@mohammed-VirtualBox:~/Desktop/lab4/Exp4-Codes$ sudo tcpdump
[sudo] password for mohammed:
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on enp0s3, link-type EN10MB (Ethernet), capture size 262144 bytes
17:20:11.865060 IP 128.10.130.190 > 128.10.130.191: ICMP echo request, id 0, seq 0, length 31
17:20:11.866388 IP mohammed-VirtualBox.60622 > superfast.domain: 21907+ [1au] PTR? 191.130.10.128.in-addr.arpa. (56)
```

Figure 15

#### 13. Ethernet frame 16, 17

Figure 16

Figure 17