Name: Md. Rafiqul Islam

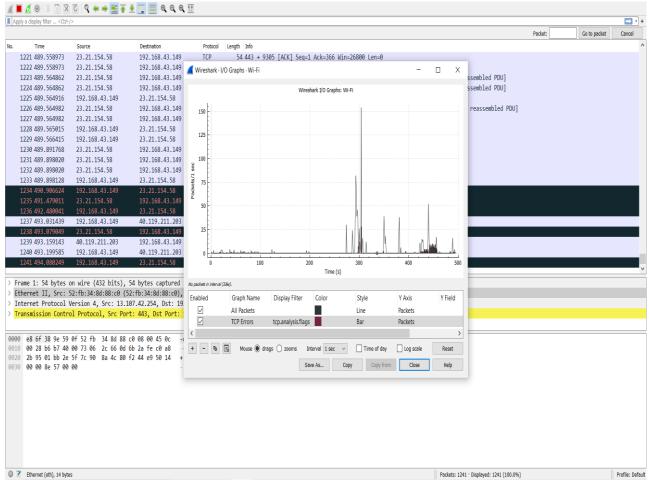
ID: IT-17054

**Course Code: ICT-3208** 

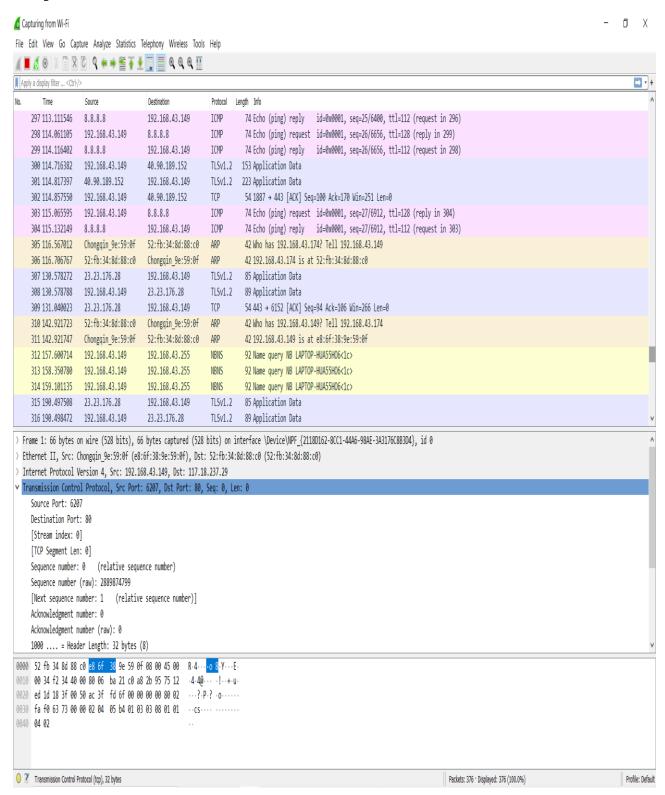
# Ping information & captured packet: ping 8.8.8.8 in powershell

∠ Administrator: Windows PowerShell	- [	X	192.168.43.149	13.107.4.254	TCP	- 54 6208 → 443 [ACK] Seq=452
Nindows PowerShell		^1	192.168.43.149	13.107.4.254	TLSv1.2	92 Application Data
Copyright (C) Microsoft Corporation. All rights reserved.		5	13.107.4.254	192.168.43.149	TCP	92 [TCP Retransmission] 443
Try the new cross-platform PowerShell https://aka.ms/pscore6		5	13.107.4.254	192.168.43.149	TLSv1.2	544 Application Data
ny tio non-tropy paoritrin'i rondrandra neeps,//antonas/paorie		5	13.107.4.254	192.168.43.149	TLSv1.2	230 Application Data
PS C:\windows\system32> ping 255.255.255.255		5	13.107.4.254	192.168.43.149	TLSv1.2	92 Application Data
Ping request could not find host 255.255.255. Please check the name and try again.		5	13.107.4.254	192.168.43.149	TLSv1.2	92 Application Data
PS C:\windows\system32> ping 8.8.8.8		0	192.168.43.149	13.107.4.254	TCP	54 6206 → 443 [ACK] Seq=674
Pinging 8.8.8.8 with 32 bytes of data:		2	192.168.43.149	13.107.4.254	TLSv1.2	92 Application Data
Reply from 8.8.8.8: bytes=32 time=262ms TTL=112		8	13.107.4.254	192.168.43.149	TCP	54 443 → 6206 [ACK] Seq=1170
Reply from 8.8.8.8: bytes=32 time=55ms TTL=112		5	13.107.4.254	192.168.43.149	TCP	54 [TCP Previous segment no
Reply from 8.8.8.8: bytes=32 time=55ms TTL=112		.5	13.107.4.254	192.168.43.149	TCP	92 [TCP Retransmission] 443
Reply from 8.8.8.8: bytes=32 time=66ms TTL=112		1	192.168.43.149	13.107.4.254	TCP	54 6208 → 443 [ACK] Seq=490
Ping statistics for 8.8.8.8:		'83	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id≕
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),		27	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id≕
Approximate round trip times in milli-seconds:		19	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id≕
Minimum = 55ms, Maximum = 262ms, Average = 109ms		46	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id=
PS C:\windows\system32>		.05	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id≕
		.02	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id≕
		82	192.168.43.149	40.90.189.152	TLSv1.2	153 Application Data
		97	40.90.189.152	192.168.43.149	TLSv1.2	223 Application Data
		50	192.168.43.149	40.90.189.152	TCP	54 1887 → 443 [ACK] Seq=100
		95	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id=
		.49	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id=
		12	Chongqin_9e:59:0f	52:fb:34:8d:88:c0	ARP	42 Who has 192.168.43.174?
		67	52:fb:34:8d:88:c0	Chongqin_9e:59:0f	ARP	42 192.168.43.174 is at 52:





# The protocol information:



### Capturing from Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help



Apply a display filter ... <Ctrl-/>

No.	Т	ime	Source	Destination	Protocol	Length Info
	1328 5	41.745119	52.158.208.111	192.168.43.149	TCP	66 443 → 9306 [FIN, ACK] Seq=4484 Ack=5824 Win=261888 Len=0 TSval=1073507752 TSecr=5459024
	1329 5	41.745156	192.168.43.149	52.158.208.111	TCP	66 9306 → 443 [ACK] Seq=5824 Ack=4485 Win=65536 Len=0 TSval=5459370 TSecr=1073507752
	1330 5	44.115195	192.168.43.149	172.217.163.170	TCP	54 9307 → 443 [FIN, ACK] Seq=1736 Ack=8705 Win=65536 Len=0
	1331 5	44.240252	172.217.163.170	192.168.43.149	TCP	54 443 → 9307 [FIN, ACK] Seq=8705 Ack=1737 Win=64000 Len=0
	1332 5	44.240338	192.168.43.149	172.217.163.170	TCP	54 9307 → 443 [ACK] Seq=1737 Ack=8706 Win=65536 Len=0

- > Frame 1: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF\_{2118D162-8CC1-44A6-98AE-3A3176C8B3D4}, id 0
- > Ethernet II, Src: 52:fb:34:8d:88:c0 (52:fb:34:8d:88:c0), Dst: Chongqin\_9e:59:0f (e8:6f:38:9e:59:0f)
- > Internet Protocol Version 4, Src: 13.107.42.254, Dst: 192.168.43.149
- $\boldsymbol{v}$  Transmission Control Protocol, Src Port: 443, Dst Port: 11871, Seq: 1, Ack: 1, Len: 0

Source Port: 443
Destination Port: 11871
[Stream index: 0]
[TCP Segment Len: 0]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 2089847372

> Flags: 0x014 (RST, ACK)
Window size value: 0
[Calculated window size: 0]

[Window size scaling factor: -1 (unknown)]

Checksum: 0x8e57 [unverified] [Checksum Status: Unverified]

Urgent pointer: 0 > [Timestamps]

### Port Security Hashing Algorithm:

```
00 3e 91 f2 00 00 26 ca
                                                                ·>····&· y`e·5·LN
0030
                                   79 60 65 b3
                                                35 d0 4c 4e
0040
      e1 22 1b 71 b5 c3 40 9b
                                  24 82 82 92
                                                3d
                                                   51 3c ea
                                                                  ·q··@· $···=Q<
0050
      44 4a 06 f5 b2 03 53 92
                                     dd 8e 34
                                                39 82 22 26
                                                                DJ....S. ...49.
0060
      23 85 17 a0 81 01 bc 00
                                  6b b0 d4 70
                                                                #····· k··p;{qa
                                                3b
                                                   7b 71 61
0070
      c0 b1 6a a0 1a 1e c1
                                     dc 4e 54 0f
                                                   22
                                                                 ·j····q ··NT·
                                  f1
                                                                 ....].. ...D...
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      bd
         ab b9
                b5
                   d7
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                          b4 81
                                     ac
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                                                c0
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0090
      49
         c1
             59
                94
                    0f
                       0e
                          0d
                              d4
                                  d9
                                         f8
                                            23
                                                   a3
                                                      0f
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                                                                c·We·U4}
      63
         0b
             57
                65
                       55
                           34
                              7d
                                  98
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                                         21
                                            e2
                                                13
                                                   d5
                                                       aa
                                                          81
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         05
             78
                       a2
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                                     a6 4e 76 29
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      4e 11 cc
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                                  0c c9 fb ac
                                                5c
                                                   d3
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         25 4b 69
                   bb 97 9c f9
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00e0
      b9
                                  f7
                                     43 3a a2
                                               98
                                                   0e
00f0
      5a 8e c9
                f4
                    6a bf
                          3a 0f
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                                     25
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                                                                P...\.".
0100
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      50
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                       85
                                  96
                                     f4
                                         с0
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                              9e
                                                                Q-f--BY-
0110
      51
          fd
                       42
                           59
                                  da
                                      5b
                                         f8
             66
                 f1
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                                                   2b
                                                      0c
0120
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                       98
                          6c
                              79
                                  09
                                      d8
                                         с6
                                                b9
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         f6
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                    c0 07
                          90
                              66
                                  f9
                                      0d
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                                     81
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          f1
             f0
                       38
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                          99 42
                                  46
                                     a7
                                         09
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                                                   e5 b5
                                                          b0
                                                                ...y.&...J....U
                79
                                                   fb 55 9e
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       d9 86 82
                    fb 26 9e 94
                                  03 4a df f7
                                                ac
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      26 3b f5 41
                    37
                       a7
                          c5 b8
                                  2b
                                     39 c9
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         36 68
                          3b 44
                                         40
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                              f0
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                                         22
                                            4d
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      4b df 44 61 d6 9b c8 61
                                     00 6c 42
                                                                ⟨·Da···a ··1BX·8e
                                                58 af
                                                      38 65
0230
         c0 8f ee 01
                       ad 9f
                              1b
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                                     a8 02 9a e2
                                                   89
                                                      7c
                                                         60
0240
      36 03
                c4
                       d0
                          11
                              f9
                                  3c 8a
                                         33 00 b5 b2
                                                      d8 b2
                                                      c5 70
0250
      bc
         96
            f2 9f
                    d3
                       94
                          17
                             a5
                                  48
                                     b1
                                         d2
                                            46
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                    5b
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                              e4
                                  37
                                         ab
                                             16
                                                38
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                    de 45
                          c9 8c
                                  22
                                      79
                                             29
                                                      74 3f
         82
            43
                a4
                                         d7
                                                68
                                                   7c
                                     d0
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                   c3 cd
                          ea 92
                                  8d
                                         5d
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      43 77 f0 39 b4 95 3a 5c
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                                     95 53
                                            86 0b 49
                                                      c3 90
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      21 d6 f7 1f
                    fe c4 03
                             a0
                                  47 70 94
                                            ad
                                                d0
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            15 aa
                                                                x9··<YS·
02c0
                    3c
                       59
                          53 d3
                                  04 00 df
                                            4c 0d
                                                   2f
                                                      86
                                                          2a
      d9 49 0b 8a 6b d7 30 4f
                                            24 43 01
                                                                ·I··k·00 · | ·$C·
02d0
                                     7c df
02e0
         40 b1 3f
                   f0 46 f8 74
                                  06
                                      a3 88 b2 1c 0c
```

# **Different Statistics:**

# Wi\_Fi file capture

Wireshark · Capture File Properties · Wi-Fi

#### Details

File

Name: C:\Users\USER\AppData\Local\Temp\wireshark\_Wi-Fi\_20200804211509\_a01608.pcapng

Length: 24 kB

Hash (SHA256): 4a3e04fe356cd42feec021b0783dfd5fe39b096c76f1d7ead62b2fcea15c3b89

 Hash (RIPEMD160):
 c09df01ea64e532c2fed5079cee65dd1a640a9cb

 Hash (SHA1):
 e231768d84970f9830ff8449ad51c083aa64de6e

Format: Wireshark/... - pcapng

Encapsulation: Ethernet

Time

First packet: 2020-08-04 21:15:18
Last packet: 2020-08-04 21:15:44
Elapsed: 00:00:26

Capture

Hardware: Intel(R) Core(TM) i3-10110U CPU @ 2.10GHz (with SSE4.2)

OS: 64-bit Windows 10 (1909), build 18363

Application: Dumpcap (Wireshark) 3.2.5 (v3.2.5-0-ged20ddea8138)

Interfaces

 Interface
 Dropped packets
 Capture filter
 Link type
 Packet size limit

 Wi-Fi
 Unknown
 none
 Ethernet
 262144 bytes

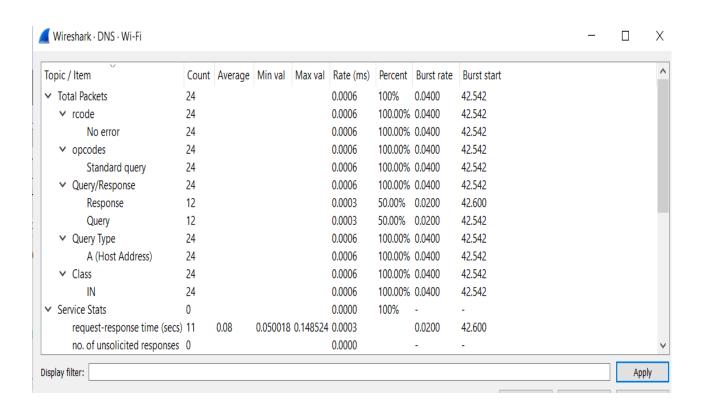
Statistics

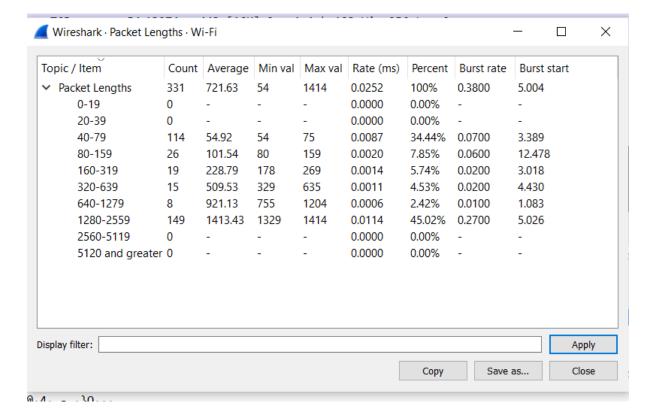
Measurement Captured <u>Displayed</u> Marked Packets 106 106 (100.0%) Time span, s 26.030 26.030 Average pps 4.1 4.1 Average packet size, B 190 190 20135 20135 (100.0%) 0 Bytes Average bytes/s 773 773 Average bits/s 6188 6188

## ■ Wireshark · Protocol Hierarchy Statistics · Wi-Fi

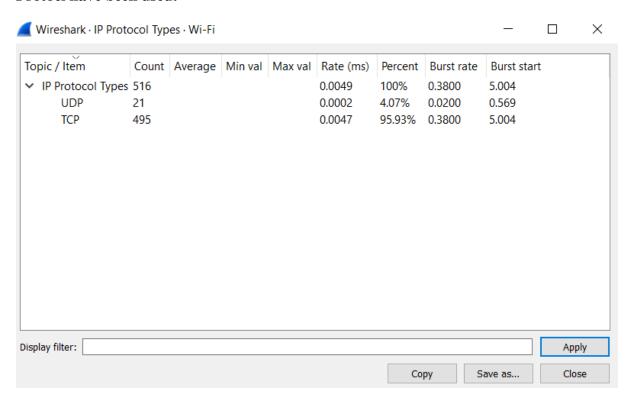
Protocol	Percent Packets	Packets	Percent Bytes	Bytes	Bits/s	End Packets	End Bytes	End Bits/s
✓ Frame	100.0	739	100.0	330333	11 k	0	0	0
✓ Ethernet	100.0	739	3.1	10346	345	0	0	0
✓ Internet Protocol Version 4	99.2	733	4.4	14660	489	0	0	0
<ul> <li>User Datagram Protocol</li> </ul>	5.3	39	0.1	312	10	0	0	0
Simple Service Discovery Protocol	1.1	8	0.4	1392	46	8	1392	46
NetBIOS Name Service	2.0	15	0.2	750	25	15	750	25
Domain Name System	2.2	16	0.2	825	27	16	825	27
<ul> <li>Transmission Control Protocol</li> </ul>	93.9	694	91.4	301880	10 k	462	229342	7661
Transport Layer Security	30.7	227	86.0	284244	9496	222	231373	7729
Data	1.4	10	0.0	10	0	10	10	0
Address Resolution Protocol	0.8	6	0.1	168	5	6	168	5

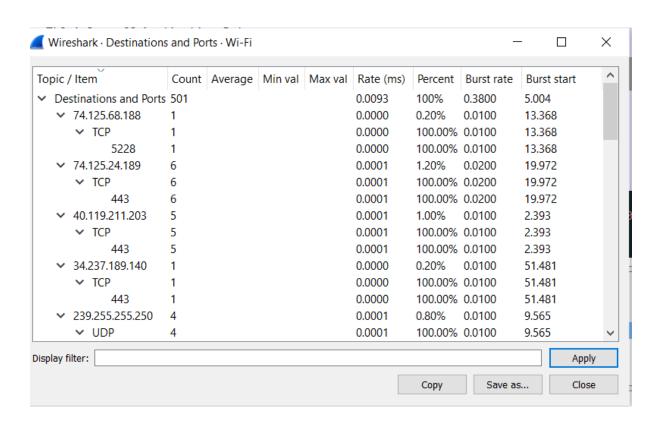
## **DNS**



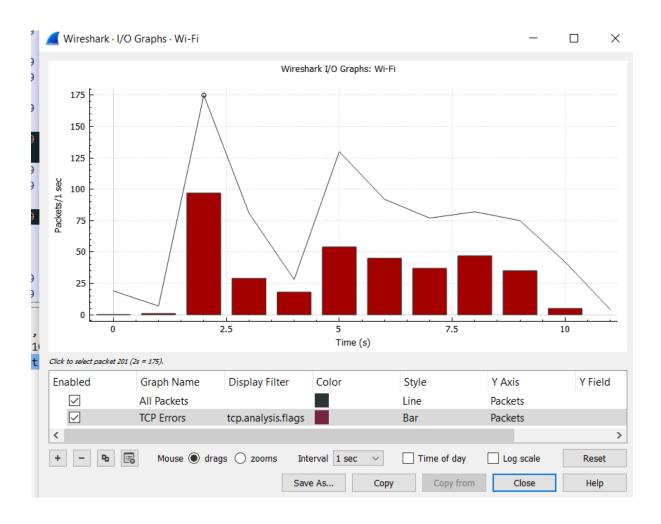


## **Protocl have been used:**





# **Error & Success Rates:**



# **Real time Response:**

