

# COMPUTER NETWORKS LAB – 1

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Roll.no: AP20110010018

Sec: CSE – A

1)

216 28.448681	10.1.42.161	52.184.216.226	TLSv1.2	704 Application Data	
217 28.846389	52.184.216.226	10.1.42.161	TCP	60 443 → 61692 [ACK] Seq=2553 Ack=1305 Win=523776 Len=0	
218 28.846389	52.184.216.226	10.1.42.161	TLSv1.2	92 Application Data	
219 28.846389	52.184.216.226	10.1.42.161	TLSv1.2	96 Application Data	
220 28.846389	52.184.216.226	10.1.42.161	TLSv1.2	718 Application Data	
221 28.846471	10.1.42.161	52.184.216.226	TCP	54 61692 → 443 [ACK] Seq=1305 Ack=3207 Win=65536 Len=0	
222 30.759868	10.1.42.161	142.250.182.174	TCP	55 61572 → 443 [ACK] Seq=1 Ack=1 Win=259 Len=1 [TCP segment of a reassembled PDU]	
223 30.820403	142.250.182.174	10.1.42.161	TCP	66 443 → 61572 [ACK] Seq=1 Ack=2 Win=441 Len=0 SLE=1 SRE=2	
224 30.979464	142.250.76.78	10.1.42.161	TLSv1.2	136 Application Data	
225 30.979799	10.1.42.161	142.250.76.78	TLSv1.2	89 Application Data	
226 30.979887	10.1.42.161	142.250.76.78	TLSv1.2	89 Application Data	
227 31.057677	142.250.76.78	10.1.42.161	TCP	60 443 → 61645 [ACK] Seq=2684 Ack=2705 Win=365 Len=0	

## Info: Application Data

> Frame 216: 704 bytes on wire (5632 bits), 704 bytes captured (5632 bits) on interface \Device\NPF\_{6319B2F5-E1D4-42E4-B605-E553186A650A}, id 0

▼ Ethernet II, Src: Chongqin\_b9:de:83 (d4:1b:b1:b9:de:83), Dst: Cisco\_59:a7:7e (68:2c:7b:59:a7:7e)

> Destination: Cisco\_59:a7:7e (68:2c:7b:59:a7:7e)

> Source: Chongqin\_b9:de:83 (d4:1b:b1:b9:de:83)

Type: IPv4 (0x0800)

> Internet Protocol Version 4, Src: 10.1.42.161, Dst: 52.184.216.226

> Transmission Control Protocol, Src Port: 61692, Dst Port: 443, Seq: 655, Ack: 2553, Len: 650

▼ Transport Layer Security

▼ TLSv1.2 Record Layer: Application Data Protocol: http2

Content Type: Application Data (23)

Version: TLS 1.2 (0x0303)

Length: 645

Encrypted Application Data: 00000000000000451304bc4d4742cb2f47e21c2e211b828d56550009a889489080d29df...

[Application Data Protocol: http2]

  

0000	68 2c 7b 59 a7 7e d4 1b	81 b9 de 83 08 00 45 00	h, [Y... ..E
0010	02 b2 d3 bb 00 00 80 06	e2 4d 0a 01 2a a1 34 b8	...@... H...4
0020	d8 e2 f0 fc 01 bb 63 02	b5 39 09 ad df 63 50 18	...c... 9...cP
0030	01 03 ee 3b 00 00 17 03	03 02 85 00 00 00 00 00	... ..
0040	00 00 04 51 30 4b c4 d4	74 2c b2 f4 7e 21 c2 e2	...Q0K... t,...l...
0050	11 b8 28 d5 65 50 00 9a	88 94 89 08 0d 29 df 1b	...{eP... ..)
0060	91 d9 61 12 4b e4 f4 b7	fc 03 40 36 8a 5f b4 83	...aK... @6...
0070	d0 2d 15 e5 63 ce 35 8f	f4 d1 e5 a4 38 49 9c 5c	...cS... ..8T...\
0080	e1 b3 55 bd 3a 99 23 a6	37 1f b2 6e 79 83 40 fc	...U...@... 7...ny:@
0090	00 c1 92 86 65 ef b1 53	02 80 b9 a7 ac a0 1b ae	...e...S .....
00a0	c7 0b 50 d0 27 29 29 ff	79 7c c3 87 9b 31 33 11	...[...')... y ...13...
00b0	dc 7a 00 08 2c 52 6d a1	e0 ad d5 a0 86 00 fb b7	...z-H,Ra... ..
00c0	59 2c ce 2b 71 ae ce 82	2e 58 3d b5 f1 e1 f6 7d	Y...+q... ..X.....
00d0	d3 19 c2 c3 a9 63 fc be	0c 0d ea 01 bf ff a6 8b	...c... ..
00e0	0c 17 0b 0d cd c6 14 56	c8 0c 7a 8c ff b4 d8 a3	...V... ..2.....
00f0	8d 4c 00 02 09 07 64 14	76 60 51 9c cf 82 4c f9	...L...d... vH?...L...
0100	ab 5a e0 9f c7 7f 7f 79	56 d2 21 0a 58 8b 3f c0	...Z...y V1...X?...
0110	8a 4c 01 6f 33 3d 30 6a	7f c8 f6 5a a3 87 81 1b	...L-o3=0j... ..Z....
0120	1f 96 10 cc 13 36 bb b8	a6 d0 ec 7d dc 93 05 08	...-6... ..)
0130	68 95 e1 36 6c 7d c9 58	f7 7a d6 db d8 94 32 47	h...-61j...X...-2...2G
0140	64 39 4a 98 a6 65 25 bd	76 7c f3 c0 d1 45 df b0	093...K... v ...E...
0150	29 3c 09 eb ce ae 8e 68	2c 37 91 c7 9b 26 74 55	>c...-h...7...8tt
0160	b7 6c 9e 42 af b1 f3 ac	6d aa a4 a7 f0 12 5e 7c	...l-B... ..m...^...
0170	6a a4 55 0d 8f 4c 53 24	1c 16 a6 9f 00 7b 7f d0	j-U...LS\$... ..{...

Source Address: 10.1.42.161

Destination Address: 52.184.216.226

Total length:690

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> Ethernet II, Src: Chongqin_b9:de:83 (d4:1b:81:b9:de:83), Dst: Cisco_59:a7:7e (68:2c:7b:59:a7:7e)
> Internet Protocol Version 4, Src: 10.1.42.161, Dst: 52.184.216.226
v Transmission Control Protocol, Src Port: 61692, Dst Port: 443, Seq: 655, Ack: 2553, Len: 650
  Source Port: 61692
  Destination Port: 443
  [Stream index: 13]
  [Conversation completeness: Incomplete, DATA (15)]
  [TCP Segment Len: 650]
  Sequence Number: 655 (relative sequence number)
  Sequence Number (raw): 1661121849
  [Next Sequence Number: 1305 (relative sequence number)]
  Acknowledgment Number: 2553 (relative ack number)
  Acknowledgment number (raw): 162389859
  0101 .... = Header Length: 20 bytes (5)
> Flags: 0x018 (PSH, ACK)
  Window: 259
  [Calculated window size: 66304]
  [Window size scaling factor: 256]

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Source Port:61692

Destination Port:443

Header Length: 20 bytes

Sequence Number :665

Sequence Number(raw):1661121849

Flags: 0X018 (PSH, ACK)

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v Frame 216: 704 bytes on wire (5632 bits), 704 bytes captured (5632 bits) on interface \Device\NPF_{6319B2F5-E1D4-42E4-B605-E553186A650A}, id 0
  Interface id: 0 (\Device\NPF_{6319B2F5-E1D4-42E4-B605-E553186A650A})
  Interface name: \Device\NPF_{6319B2F5-E1D4-42E4-B605-E553186A650A}
  Interface description: Wi-Fi
  Encapsulation type: Ethernet (1)
  Arrival Time: Sep 7, 2022 16:29:49.446131000 India Standard Time
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1662548309.446131000 seconds
  [Time delta from previous captured frame: 0.000061000 seconds]
  [Time delta from previous displayed frame: 0.000061000 seconds]
  [Time since reference or first frame: 28.448681000 seconds]
  Frame Number: 216
  Frame Length: 704 bytes (5632 bits)
  Capture Length: 704 bytes (5632 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:tcp:tls]
  [Coloring Rule Name: TCP]
  [Coloring Rule String: tcp]

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Frame Number:216

Frame Length:704 bytes

Capture Length: 704 bytes

```

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v Ethernet II, Src: Chongqin_b9:de:83 (d4:1b:81:b9:de:83), Dst: Cisco_59:a7:7e (68:2c:7b:59:a7:7e)
  Destination: Cisco_59:a7:7e (68:2c:7b:59:a7:7e)
  Source: Chongqin_b9:de:83 (d4:1b:81:b9:de:83)
  Type: IPv4 (0x0800)
> Internet Protocol Version 4, Src: 10.1.42.161, Dst: 52.184.216.226
> Transmission Control Protocol, Src Port: 61692, Dst Port: 443, Seq: 655, Ack: 2553, Len: 650
v Transport Layer Security
  TLSv1.2 Record Layer: Application Data Protocol: http2
  Content Type: Application Data (23)
  Version: TLS 1.2 (0x0303)
  Length: 645

```

Destination: Cisco\_59:a7:7e (68:2c:7b:59:a7:7e)

Source: Chongqin\_b9:de:83 (d4:1b:81:b9:de:83)

Type: IPv4 (0X0800)