

# RAMRAO ADIK INSTITUTE OF TECHNOLOGY

D. Y. PATIL VIDYANAGAR, SECTOR - 7, NERUL, NAVI MUMBAI - 400076.

**WEBSITE:** www.dypatil.edu/schools/rait

**DEPT: COMPUTER ENGG. ROLL NO: 24CE1251**

**NAME: DIPEEKA SINGH**

**CLASS:E BATCH:E1 SUBJECT: CN LAB**

**EXPT NO:03**

**DATE OF PERFORM:09/02/2026**

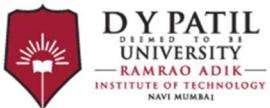
**AIM: USE WIRESHARK TO UNDERSTAND THE OPERATIONS OF TCP/IP LAYERS**

## RESULTS OF \_\_\_\_\_

```
▼ Transmission Control Protocol, Src Port: 57745, Dst Port: 443, Seq: 3530, Ack: 13981, Len: 0
  Source Port: 57745
  Destination Port: 443
  [Stream index: 64]
  ▶ [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 0]
    Sequence Number: 3530 (relative sequence number)
    Sequence Number (raw): 3482244085
    [Next Sequence Number: 3531 (relative sequence number)]
    Acknowledgment Number: 13981 (relative ack number)
    Acknowledgment number (raw): 3476407570
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x011 (FIN, ACK)
  Window: 1021
    [Calculated window size: 261376]
    [Window size scaling factor: 256]
    Checksum: 0xd0c0 [unverified]
    [Checksum Status: Unverified]

0000  3c 33 32 72 6e 8e 8c dc d4 4c ae 2f 08 00 45 00  <32r...L./..E
0010  00 28 9f b8 40 00 80 06 00 00 c0 a8 34 39 8e fa  (- @.....49.
0020  4c ca e1 91 01 bb cf 8e d3 f5 cf 35 c5 12 50 11  L.....5..P.
0030  03 fd d0 c0 00 00 .....
```

```
▶ Frame 40970: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{D9D6BD08-BA81-4931-9D42-BFDDAE07C1E}, id 0
  Ethernet II, Src: HewlettPacka_4cae:2f (8c:dc:d4:4cae:2f), Dst: DLink_72:6e:8e (3c:33:32:72:6e:8e)
  ▶ Internet Protocol Version 4, Src: 192.168.52.57, Dst: 142.250.76.202
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    ▶ Differentiated Services Field: 0x00 (DSFP: CS0, ECN: Not-ECT)
      Total Length: 40
      Identification: 0x9fb8 (40888)
    ▶ 010. .... = Flags: 0x2, Don't fragment
      ...0 0000 0000 0000 = Fragment Offset: 0
      Time to Live: 128
      Protocol: TCP (6)
      Header Checksum: 0x0000 [validation disabled]
      [Header checksum status: Unverified]
      Source Address: 192.168.52.57
      Destination Address: 142.250.76.202
      [Stream index: 225]
  ▶ Transmission Control Protocol, Src Port: 57745, Dst Port: 443, Seq: 3530, Ack: 13981, Len: 0
  0000  3c 33 32 72 6e 8e 8c dc d4 4c ae 2f 08 00 45 00  <32r...L./..E
  0010  00 28 9f b8 40 00 80 06 00 00 c0 a8 34 39 8e fa  (- @.....49.
  0020  4c ca e1 91 01 bb cf 8e d3 f5 cf 35 c5 12 50 11  L.....5..P.
  0030  03 fd d0 c0 00 00 .....
```



# RAMRAO ADIK INSTITUTE OF TECHNOLOGY

D. Y. PATIL VIDYANAGAR, SECTOR - 7, NERUL, NAVI MUMBAI - 400706.

**WEBSITE:** [www.dypatil.edu/schools/rait](http://www.dypatil.edu/schools/rait)

**DEPT: COMPUTER ENGG. ROLL NO: 24CE1251**

**NAME: DIPEEKA SINGH**

**CLASS:E BATCH:E1 SUBJECT: CN LAB**

**EXPT NO:03**

**DATE OF PERFORM:09/02/2026**

**AIM: USE WIRESHARK TO UNDERSTAND THE OPERATIONS OF TCP/IP LAYERS**

```
Frame 40970: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{D9D6BD08-BA81-4931-9D42-BFDDAE07C1E}, id 0
Ethernet II, Src: HewlettPacka_4c:ae:2f (8c:dc:d4:4c:ae:2f), Dst: DLink_72:6e:8e (3c:33:32:72:6e:8e)
  Destination: DLink_72:6e:8e (3c:33:32:72:6e:8e)
  Source: HewlettPacka_4c:ae:2f (8c:dc:d4:4c:ae:2f)
  Type: IPv4 (0x0800)
  [Stream index: 37]
Internet Protocol Version 4, Src: 192.168.52.57, Dst: 142.250.76.202
Transmission Control Protocol, Src Port: 57745, Dst Port: 443, Seq: 3530, Ack: 13981, Len: 0

0000  3c 33 32 72 6e 8e 8c dc d4 4c ae 2f 08 00 45 00  <32r...> L / E
0010  00 28 9f b8 40 00 80 06 00 00 c0 a8 34 39 8e fa  ( @ ..... 49 ...
0020  4c ca e1 91 01 bb cf 8e d3 f5 cf 35 c5 12 50 11  L ..... 5 ..P.
0030  03 fd d0 c0 00 00

0000  3c 33 32 72 6e 8e 8c dc d4 4c ae 2f 08 00 45 00  <32r...> L / E
0010  00 28 9f b8 40 00 80 06 00 00 c0 a8 34 39 8e fa  ( @ ..... 49 ...
0020  4c ca e1 91 01 bb cf 8e d3 f5 cf 35 c5 12 50 11  L ..... 5 ..P.
0030  03 fd d0 c0 00 00
```

```
Frame 40970: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{D9D6BD08-BA81-4931-9D42-BFDDAE07C1E}, id 0
Section number: 1
Interface id: 0 (\Device\NPF_{D9D6BD08-BA81-4931-9D42-BFDDAE07C1E})
Encapsulation type: Ethernet (1)
Arrival Time: Feb 9, 2026 11:32:15.834814000 India Standard Time
UTC Arrival Time: Feb 9, 2026 06:02:15.834814000 UTC
Epoch Arrival Time: 1770616935.834814000
[Time shift for this packet: 0.00000000 seconds]
[Time delta from previous captured frame: 0.000220000 seconds]
[Time delta from previous displayed frame: 0.000220000 seconds]
[Time since reference or first frame: 613.934595000 seconds]
Frame Number: 40970
Frame Length: 54 bytes (432 bits)
Capture Length: 54 bytes (432 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:tcp]
[Coloring Rule Name: TCP SYN/RIN]

0000  3c 33 32 72 6e 8e 8c dc d4 4c ae 2f 08 00 45 00  <32r...> L / E
0010  00 28 9f b8 40 00 80 06 00 00 c0 a8 34 39 8e fa  ( @ ..... 49 ...
0020  4c ca e1 91 01 bb cf 8e d3 f5 cf 35 c5 12 50 11  L ..... 5 ..P.
0030  03 fd d0 c0 00 00
```



**DEPT: COMPUTER ENGG.**    **ROLL NO:** 24CE1251

NAME:DIPEEKA SINGH

**CLASS:E**    **BATCH:E1**    **SUBJECT: CN LAB**

### **EXPT NO:03**

**DATE OF PERFORM:09/02/2026**

AIM:USE WIRESHARK TO UNDERSTAND THE OPERATIONS OF TCP/IP LAYERS

No.	Time	Source	Destination	Protocol	Length Info
37186	466.332772	192.168.5.138	192.168.52.158	TCP	66 [TCP Retransmission] 54669 + 7680 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM
37192	466.900615	192.168.52.57	57.144.15.32	TLSv1.3	124 Application Data
37203	467.141716	57.144.15.32	192.168.52.57	TCP	60 443 + 57755 [ACK] Seq=842039 Ack=163030 Win=442368 Len=0
37207	467.304125	57.144.15.32	192.168.52.57	TLSv1.3	126 Application Data
37209	467.351549	192.168.52.57	57.144.15.32	TCP	54 57755 + 443 [ACK] Seq=163030 Ack=842111 Win=262656 Len=0
37221	468.132765	192.168.52.57	142.250.195.78	TCP	55 [TCP Keep-Alive] 57720 + 443 [ACK] Seq=2732 Ack=9626 Win=262400 Len=1
37222	468.135552	142.250.195.78	192.168.52.57	TCP	66 [TCP Keep-Alive ACK] 443 + 57720 [ACK] Seq=9626 Ack=2733 Win=267776 Len=0 SLE=2732 SRE=2733
37223	468.148387	192.168.52.57	142.250.195.78	TCP	55 [TCP Keep-Alive] 57721 + 443 [ACK] Seq=3084 Ack=10792 Win=262400 Len=1
37224	468.150918	142.250.195.78	192.168.52.57	TCP	66 [TCP Keep-Alive ACK] 443 + 57721 [ACK] Seq=10792 Ack=3085 Win=267776 Len=0 SLE=3084 SRE=3085
37243	469.382493	192.168.52.57	172.217.25.99	TCP	55 [TCP Keep-Alive] 57739 + 443 [ACK] Seq=3423 Ack=7232 Win=262400 Len=1
37244	469.451892	172.217.25.99	192.168.52.57	TCP	66 [TCP Keep-Alive ACK] 443 + 57739 [ACK] Seq=7232 Ack=3424 Win=267088 Len=0 SLE=3423 SRE=3424
37270	470.369861	192.168.5.138	192.168.52.158	TCP	66 [TCP Retransmission] 54669 + 7680 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM
37271	470.508914	192.168.52.57	142.250.195.78	TCP	55 [TCP Keep-Alive] 57734 + 443 [ACK] Seq=3519 Ack=3985 Win=261632 Len=1
37272	470.511577	142.250.195.78	192.168.52.57	TCP	66 [TCP Keep-Alive ACK] 443 + 57734 [ACK] Seq=3985 Ack=3520 Win=267088 Len=0 SLE=3519 SRE=3520
37298	470.771065	192.168.52.57	142.250.70.69	TCP	55 [TCP Keep-Alive] 57727 + 443 [ACK] Seq=5477 Ack=12183 Win=261376 Len=1
37299	470.773733	142.250.70.69	192.168.52.57	TCP	66 [TCP Keep-Alive ACK] 443 + 57727 [ACK] Seq=12183 Ack=5478 Win=2626400 Len=0 SLE=5477 SRE=5478
37305	471.871644	192.168.52.57	142.251.220.67	TCP	55 [TCP Keep-Alive] 57736 + 443 [ACK] Seq=12148 Ack=6724 Win=262400 Len=1
37306	471.873913	142.251.220.67	192.168.52.57	TCP	66 [TCP Keep-Alive ACK] 443 + 57736 [ACK] Seq=8724 Ack=12149 Win=258304 Len=0 SLE=12149 SRE=12149