

Request packet:

Frame: Here we can see that the packet tracer shows a TCP packet from a wifi interface and is 489 bytes long.

```
✓ Frame 159: 489 bytes on wire (3912 bits), 489 bytes captured (3912 bits) on interface \Device\NPF_{45ED
  Section number: 1
  > Interface id: 0 (\Device\NPF_{45EDA4B1-3804-4BE1-A220-6D1325DC1B61})
  Encapsulation type: Ethernet (1)

  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1698686535.787195000 seconds
  [Time delta from previous captured frame: 0.000145000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 6.846896000 seconds]
  Frame Number: 159
  Frame Length: 489 bytes (3912 bits)
  Capture Length: 489 bytes (3912 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:tcp:http]
  [Coloring Rule Name: HTTP]
  [Coloring Rule String: http || tcp.port == 80 || http2]
```

Ethernet: Here the packet is from a device with MAC address 50:5a:65:06:35:0d, which is identified as AzureWav_06:35:0d.

```
✓ Ethernet II, Src: AzureWav_06:35:0d (50:5a:65:06:35:0d), Dst: TP-Link_53:e5:89 (ac:15:a2:53:e5:89)
  > Destination: TP-Link_53:e5:89 (ac:15:a2:53:e5:89)
  > Source: AzureWav_06:35:0d (50:5a:65:06:35:0d)
  Type: IPv4 (0x0800)
```

Internet: Here it shows a typical IPv4 packet that is being used to carry TCP data. Internet protocol version 4 under the network layer.

```
✓ Internet Protocol Version 4, Src: 192.168.0.102, Dst: 103.230.106.216
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  Total Length: 475
  Identification: 0x5491 (21649)
  > 010. .... = Flags: 0x2, Don't fragment
  ...0 0000 0000 0000 = Fragment Offset: 0
  Time to Live: 128
  Protocol: TCP (6)
  Header Checksum: 0x10bf [validation disabled]
  [Header checksum status: Unverified]
  Source Address: 192.168.0.102
  Destination Address: 103.230.106.216
```

Transmission Control: Transmission control protocol under the transport layer.

```
▼ Transmission Control Protocol, Src Port: 7000, Dst Port: 80, Seq: 1, Ack: 1, Len: 435
  Source Port: 7000
  Destination Port: 80
  [Stream index: 3]
  [Conversation completeness: Incomplete, DATA (15)]
  [TCP Segment Len: 435]
  Sequence Number: 1 (relative sequence number)
  Sequence Number (raw): 3952106709
  [Next Sequence Number: 436 (relative sequence number)]
  Acknowledgment Number: 1 (relative ack number)
  Acknowledgment number (raw): 2556891474
  0101 .... = Header Length: 20 bytes (5)
  > Flags: 0x018 (PSH, ACK)
  Window: 64240
  [Calculated window size: 64240]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x3e23 [unverified]
  [Checksum Status: Unverified]
  Urgent Pointer: 0
  > [Timestamps]
  > [SEQ/ACK analysis]
  TCP payload (435 bytes)
```

Hypertext transfer: This is the application layer-related information from the HTTP request.

```
▼ Hypertext Transfer Protocol
  > GET / HTTP/1.1\r\n
  Host: cspb.teletalk.com.bd\r\n
  Connection: keep-alive\r\n
  Upgrade-Insecure-Requests: 1\r\n
  User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q
  Accept-Encoding: gzip, deflate\r\n
  Accept-Language: en-US,en;q=0.9\r\n
  \r\n
  [Full request URI: http://cspb.teletalk.com.bd/]
  [HTTP request 1/22]
  [Next request in frame: 176]
```

Response Packet:

Frame: Frame is under the data link layer.

```
▼ Frame 1393: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{45EDA4B
  Section number: 1
  > Interface id: 0 (\Device\NPF_{45EDA4B1-3804-4BE1-A220-6D1325DC1B61})
  Encapsulation type: Ethernet (1)

  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1698686537.238708000 seconds
  [Time delta from previous captured frame: 0.000000000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 8.298409000 seconds]
  Frame Number: 1393
  Frame Length: 74 bytes (592 bits)
  Capture Length: 74 bytes (592 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:tcp:http:data]
  [Coloring Rule Name: HTTP]
  [Coloring Rule String: http || tcp.port == 80 || http2]
```

Ethernet: Ethernet II is also under data link layer.

```
Ethernet II, Src: TP-Link_53:e5:89 (ac:15:a2:53:e5:89), Dst: AzureWav_06:35:0d (50:5a:65:06:35:0d)
> Destination: AzureWav_06:35:0d (50:5a:65:06:35:0d)
> Source: TP-Link_53:e5:89 (ac:15:a2:53:e5:89)
Type: IPv4 (0x0800)
```

Internet: Here it shows a typical IPv4 packet that is being used to carry TCP data. Internet protocol version 4 under the network layer.

```
▼ Internet Protocol Version 4, Src: 103.230.106.216, Dst: 192.168.0.102
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  Total Length: 60
  Identification: 0x5dca (24010)
  > 010. .... = Flags: 0x2, Don't fragment
  ...0 0000 0000 0000 = Fragment Offset: 0
  Time to Live: 242
  Protocol: TCP (6)
  Header Checksum: 0x9724 [validation disabled]
  [Header checksum status: Unverified]
  Source Address: 103.230.106.216
  Destination Address: 192.168.0.102
```

Transmission Control: Transmission control protocol under the transport layer.

```

  Transmission Control Protocol, Src Port: 80, Dst Port: 7000, Seq: 34085, Ack: 1169, Len: 20
    Source Port: 80
    Destination Port: 7000
    [Stream index: 3]
    [Conversation completeness: Incomplete, DATA (15)]
    [TCP Segment Len: 20]
    Sequence Number: 34085      (relative sequence number)
    Sequence Number (raw): 2556925558
    [Next Sequence Number: 34105      (relative sequence number)]
    Acknowledgment Number: 1169      (relative ack number)
    Acknowledgment number (raw): 3952107877
    0101 .... = Header Length: 20 bytes (5)
  > Flags: 0x018 (PSH, ACK)
    Window: 5488
    [Calculated window size: 5488]
    [Window size scaling factor: -2 (no window scaling used)]
    Checksum: 0x10cb [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
  > [Timestamps]
    TCP payload (20 bytes)

```

Hypertext Transfer: This is the application layer-related information from the HTTP response.

```

  Hypertext Transfer Protocol
    Data (20 bytes)
      Data: 8c0777052f430544a92cd45d6e005521de6b0788
      [Length: 20]

```