In this example, we will do a Wireshark analysis of an **FTP** server: **ftp://ftp.adobe.com** Again, we set the host as ftp.adobe.com in the Capture Filters of Wireshark. **FTP** is an application layer protocol which uses TCP as its transport layer protocol. So, since the packets are sent over TCP, there is a possibility of ECN support.

**ECN Related Details:** Inspecting the TCP SYN packet sent by our system, we see that the **ECE** and **CWR** are set to 1, indicating that the client support ECN.

```
72 Request: PASV
           10.000000000
                                 192.168.43.71
192.147.130.111
                                                                 192.147.130.111
192.168.43.71
                                                                                                ETD
           2 0.346452467
                                                                                                TCP
                                                                                                                 66 21 → 41386 [ACK] Seq=1 Ack=7 Win=4036 Len=0 TSval=3252752854
                                                                                                                117 Response: 227 Entering Passive Mode (192,147,130,111,58,53) 66 41386 - 21 [ACK] Seq-7 Ack=52 Win=64042 Len=0 TSval=383729495
           3.0.346484234
                                  192.147.130.111
                                                                 192.168.43.71
                                                                                                FTP
           40.346515666
                                                                                                TCP
                                 192.168.43.71
                                                                 192.147.130.111
           50.347054133
                                 192.168.43.71
                                                                 192.147.130.111
                                                                                                FTP
                                                                                                                  73 Request: CWD /
                                                                                                                 74 14901 - 48680 [SYN, ACK] Seq=0 Ack=1 Win=3930 Len=0 MSS=1310 66 48680 - 14901 [ACK] Seq=1 Ack=1 Win=64240 Len=0 TSval=3837295
           7 0.679074657
                                                                 192.147.130.111
           80.679132596
                                 192.168.43.71
                                                                                                TCP
                                                                                                                66 21 \rightarrow 41386 [ACK] Seq=52 Ack=14 Win=4043 Len=0 TSval=325275319 103 Response: 250 Directory successfully changed.
           9.0.687130742
                                 192.147.130.111
                                                                 192.168.43.71
                                                                                                TCP
         100.687153599
                                 192.147.130.111
                                                                 192.168.43.71
                                                                                                FTP
                                                                 192.147.130.111
         11 0.687544959
                                 192.168.43.71
                                                                                                FTP
                                                                                                                  72 Request: LIST
                                                                                                                  66 21 - 41386 [ACK] Seq=89 Ack=20 Win=4049 Len=0 TSval=325275354
54 14901 - 48680 [RST, ACK] Seq=1 Ack=1 Win=3930 Len=0
          12 1.035392648
                                 192.147.130.111
                                                                 192.168.43.71
         135.022684325
                                  192.147.130.11
                                                                 192.168.43.71
  Transmission Control Protocol, Src Port: 48680, Dst Port: 14901, Seq: 0,
     Source Port: 48680
     Destination Port: 14901
     [Stream index: 1]
[TCP Segment Len: 0]
     Sequence number: 0 (
[Next sequence number:
                                     (relative sequence number)
                                              (relative sequence number)]
                                       0
     Acknowledgment number: 0
1010 .... = Header Length: 40 bytes (10)
   1010 ... = Header Length: 40 bytes (10)

Flags: 0x0c2 (SYN, ECN, CWR)

000 ... ... = Reserved: Not set
... 0 ... ... = Nonce: Not set
... 1 ... = Congestion Window Reduced (CWR): Set
... 1 ... = ECN-Echo: Set
... 0 ... = Urgent: Not set
.....0 ... = Acknowledgment: Not set
.....0 ... = Push: Not set
.....0 ... = Push: Not set
                                                                                                                                        Packets: 13 · Displayed: 13 (100.0%) · Dropped: 0 (0.0%)
```

However, the server responds with the **ECE bit set to 0** in the SYN+ACK response, indicating that it does not support ECN.

