```
root@student-vm: /media/sf ip... ×
                                           student@student-vm: ~
              root@student-vm:/media/sf ipk/0 proj/proj2/proj 83x22
root@student-vm:/media/sf_ipk/0_proj/proj2/proj# ./ipk-sniffer -i enp0s3 --tcp -n 1
timestamp:
                     2022-03-01T19:53:24.859847Z
STC MAC:
                     08:00:27:ca:e4:d4
dst MAC:
                     52:54:00:12:35:02
frame length:
                     74 bytes
network layer proto:
                     IPv4
transport layer proto:
                     TCP
src IP:
                     10.0.2.15
                     142.251.37.110
dst IP:
                     42338
src port:
dst port:
seg number (raw):
                     1132593855
ack number (raw):
flags as bits:
                     00000010
0x0000: 52 54 00 12 35 02 08 00 27 ca e4 d4 08 00 45 00 RT..5... '....E.
0x0010: 00 3c fa 89 40 00 40 06 7f ba 0a 00 02 0f 8e fb .<..@.@. ......
0x0020: 25 6e a5 62 00 50 43 82  02 bf 00 00 00 a0 02  %n.b.PC. ......
0x0030: fa f0 c0 a6 00 00 02 04 05 b4 04 02 08 0a 92 03 .......
0x0040: ae ba 00 00 00 00 01 03 03 07
root@student-vm:/media/sf_ipk/0_proj/proj2/proj#
                          student@student-vm: ~ 65x16
Time Current
                                    Dload Upload
                                                       Total
                                                                Spent
Left Speed
                                                 0 --:--:--:-10
   219 100
               219
                       0
                              0
                                    701
       701
student@student-vm:~$ curl google.com > /dev/null
             % Received % Xferd Average Speed Time
 % Total
                                                                Time
Time Current
                                    Dload Upload
                                                       Total
                                                                Spent
Left Speed
                                              0 --:--:--:-100
                       0
219 100
           219
                                739
                                          0 --:--:-- --:--:--
                    0
                          0
    737
student@student-vm:~$
```

```
Frame 1: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interfac.▲
   Interface id: 0 (enp0s3)
     Encapsulation type: Ethernet (1)
     Arrival Time: Mar 1, 2022 20:53:24.859847058 CET
     [Time shift for this packet: 0.000000000 seconds]
     Epoch Time: 1646164404.859847058 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: 0.000000000 seconds]
     Frame Number: 1
     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]
     [Coloring Rule Name: HTTP]
     [Coloring Rule String: http://tcp.port == 80 || http2]
Ethernet II, Src: PcsCompu_ca:e4:d4 (08:00:27:ca:e4:d4), Dst: RealtekU_12:35:0
   Destination: RealtekU 12:35:02 (52:54:00:12:35:02)
   Source: PcsCompu_ca:e4:d4 (08:00:27:ca:e4:d4)
     Type: IPv4 (0x0800)

    Internet Protocol Version 4, Src: 10.0.2.15, Dst: 142.251.37.110

     0100 .... = Version: 4
     .... 0101 = Header Length: 20 bytes (5)
   Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
     Total Length: 60
     Identification: 0xfa89 (64137)
   Flags: 0x4000, Don't fragment
     Fragment offset: 0
     Time to live: 64
     Protocol: TCP (6)
     Header checksum: 0x7fba [validation disabled]
     [Header checksum status: Unverified]
     Source: 10.0.2.15
     Destination: 142.251.37.110
- Transmission Control Protocol, Src Port: 42338, Dst Port: 80, Seq: 0, Len: 0
     Source Port: 42338
                                                        RT - - 5 - - - - ' - - - - E -
      52 54 00 12 35 02 08 00 27 ca e4 d4 08 00 45 00
                                                        ·<·· @ · @ · · · · · · · · · ·
      00 3c fa 89 40 00 40 06 7f ba 0a 00 02 0f 8e fb
     25 6e a5 62 00 50 43 82 02 bf 00 00 00 00 a0 02
                                                        0020
      fa f0 c0 a6 00 00 02 04 05 b4 04 02 08 0a 92 03
                                                        ....... .....
     ae ba 00 00 00 00 01 03 03 07
                                                         . . . . . . . . . . .
```