Date: 30/07/2025

Lab Practical #09:

Study Packet capture and header analysis by Wireshark (HTTP, TCP, UDP, IP, etc.)

Practical Assignment #09:

1. Explain usage of Wireshark tool.

a. Captures Network Traffic

I. Wireshark records the data packets that travel over a network (like Wi-Fi or LAN).

II. It helps in monitoring what is happening in real-time on the network**.**

b. Analyzes Packets

I. Each packet (small unit of data) can be examined to check details like source, destination, and protocol used.

II. This is useful to understand how communication happens between different devices.

c. Troubleshooting Networks

I. Helps in finding network issues such as slow speed, connection drops, or wrong configurations.

II. Can show errors or unusual patterns in data flow, which makes debugging easier.

d. Supports Many Protocols

I. Wireshark can recognize and display hundreds of protocols (HTTP, TCP, UDP, DNS, etc.).

II. This makes it easy to study how various applications and services communicate.

e. Filtering and Searching

I. Provides powerful filters to focus on specific data (e.g., only HTTP traffic or packets from a particular IP address).

II. This feature saves time and allows targeted analysis.

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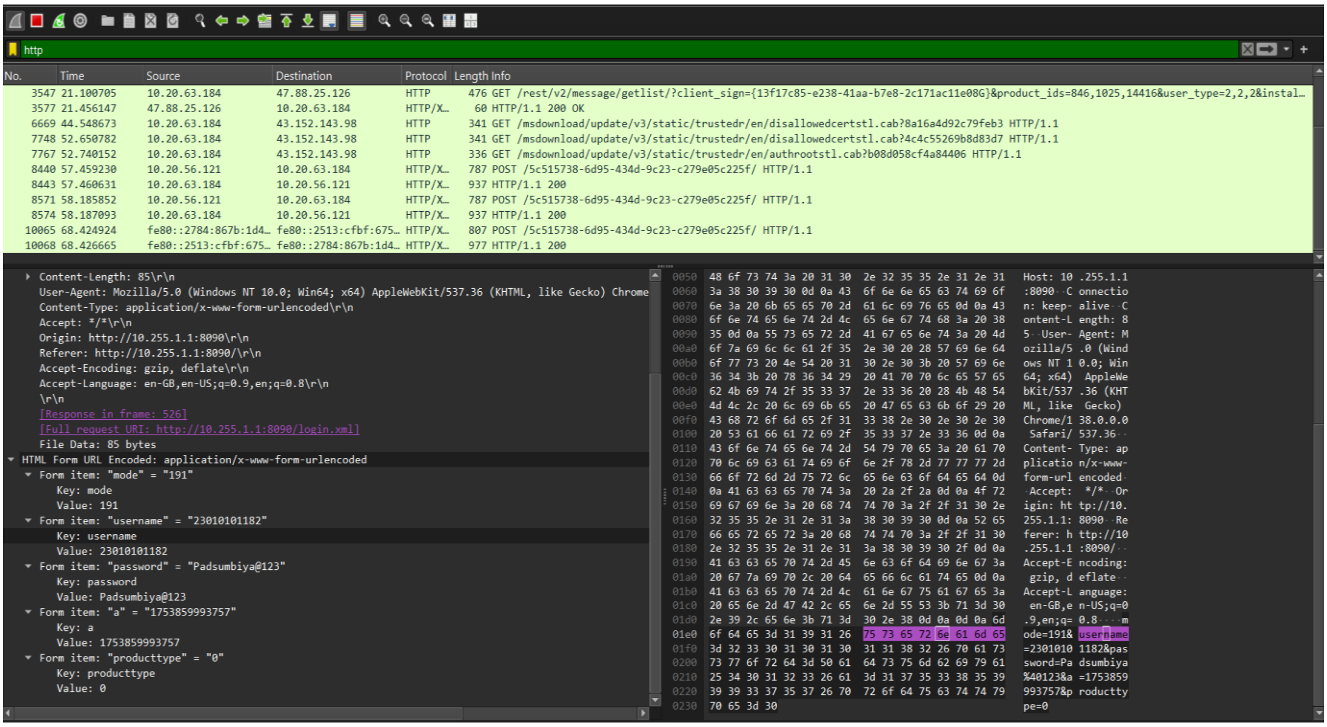
2. Packet capture and header analysis by Wireshark (HTTP, TCP, UDP, IP, etc.)

Using Wireshark, we can capture packets and analyze their headers at different layers of the OSI model. Some examples of header analysis include:

- **IP Header:** Contains source IP, destination IP, version, header length, TTL, and protocol type.
- **TCP Header:** Includes source port, destination port, sequence number, acknowledgment number, flags, and window size.
- **UDP Header:** Contains source port, destination port, length, and checksum.
- **HTTP Header:** Includes request type (GET/POST), URL, host, user-agent, cookies, and response codes.

a. HTTP



```
http
```

```
No.   Time      Source               Destination          Protocol Length Info
 3547 21.100705 10.20.63.184         47.88.25.126         HTTP     476 GET /rest/v2/message/getlist/?client_sign={13f17c85-e238-41aa-b7e8-2c171ac11e08G}&product_ids=846,1025,14416&user_type=2,2,2&instal…
 3577 21.456147 47.88.25.126         10.20.63.184         HTTP/X…   60 HTTP/1.1 200 OK
 6669 44.548673 10.20.63.184         43.152.143.98        HTTP     341 GET /msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab?8a16a4d92c79feb3 HTTP/1.1
 7748 52.650782 10.20.63.184         43.152.143.98        HTTP     341 GET /msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab?4c4c55269b8d83d7 HTTP/1.1
 7767 52.740152 10.20.63.184         43.152.143.98        HTTP     336 GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?b08d058cf4a84406 HTTP/1.1
 8440 57.459230 10.20.56.121         10.20.63.184         HTTP/X…  787 POST /5c515738-6d95-434d-9c23-c279e05c225f/ HTTP/1.1
 8443 57.460631 10.20.63.184         10.20.56.121         HTTP/X…  937 HTTP/1.1 200
 8571 58.185852 10.20.56.121         10.20.63.184         HTTP/X…  787 POST /5c515738-6d95-434d-9c23-c279e05c225f/ HTTP/1.1
 8574 58.187093 10.20.63.184         10.20.56.121         HTTP/X…  937 HTTP/1.1 200
10065 68.424924 fe80::2784:867b:1d4… fe80::2513:cfbf:675… HTTP/X…  807 POST /5c515738-6d95-434d-9c23-c279e05c225f/ HTTP/1.1
10068 68.426665 fe80::2513:cfbf:675… fe80::2784:867b:1d4… HTTP/X…  977 HTTP/1.1 200
```

```
  › Content-Length: 85\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome
    Content-Type: application/x-www-form-urlencoded\r\n
    Accept: */*\r\n
    Origin: http://10.255.1.1:8090\r\n
    Referer: http://10.255.1.1:8090/\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: en-GB,en-US;q=0.9,en;q=0.8\r\n
    \r\n
    [Response in frame: 526]
    [Full request URI: http://10.255.1.1:8090/login.xml]
    File Data: 85 bytes
▾ HTML Form URL Encoded: application/x-www-form-urlencoded
  ▾ Form item: "mode" = "191"
      Key: mode
      Value: 191
  ▾ Form item: "username" = "23010101182"
      Key: username
      Value: 23010101182
  ▾ Form item: "password" = "Padsumbiya@123"
      Key: password
      Value: Padsumbiya@123
  ▾ Form item: "a" = "1753859993757"
      Key: a
      Value: 1753859993757
  ▾ Form item: "producttype" = "0"
      Key: producttype
      Value: 0
```

```
0050  48 6f 73 74 3a 20 31 30  2e 32 35 35 2e 31 2e 31   Host: 10 .255.1.1
0060  3a 38 30 39 30 0d 0a 43  6f 6e 6e 65 63 74 69 6f   :8090··C onnectio
0070  6e 3a 20 6b 65 65 70 2d  61 6c 69 76 65 0d 0a 43   n: keep- alive··C
0080  6f 6e 74 65 6e 74 2d 4c  65 6e 67 74 68 3a 20 38   ontent-L ength: 8
0090  35 0d 0a 55 73 65 72 2d  41 67 65 6e 74 3a 20 4d   5··User- Agent: M
00a0  6f 7a 69 6c 6c 61 2f 35  2e 30 20 28 57 69 6e 64   ozilla/5 .0 (Wind
00b0  6f 77 73 20 4e 54 20 31  30 2e 30 3b 20 57 69 6e   ows NT 1 0.0; Win
00c0  36 34 3b 20 78 36 34 29  20 41 70 70 6c 65 57 65   64; x64)  AppleWe
00d0  62 4b 69 74 2f 35 33 37  2e 33 36 20 28 4b 48 54   bKit/537 .36 (KHT
00e0  4d 4c 2c 20 6c 69 6b 65  20 47 65 63 6b 6f 29 20   ML, like  Gecko)
00f0  43 68 72 6f 6d 65 2f 31  33 38 2e 30 2e 30 2e 30   Chrome/1 38.0.0.0
0100  20 53 61 66 61 72 69 2f  35 33 37 2e 33 36 0d 0a    Safari/ 537.36··
0110  43 6f 6e 74 65 6e 74 2d  54 79 70 65 3a 20 61 70   Content- Type: ap
0120  70 6c 69 63 61 74 69 6f  6e 2f 78 2d 77 77 77 2d   plicatio n/x-www-
0130  66 6f 72 6d 2d 75 72 6c  65 6e 63 6f 64 65 64 0d   form-url encoded·
0140  0a 41 63 63 65 70 74 3a  20 2a 2f 2a 0d 0a 4f 72   ·Accept:  */*··Or
0150  69 67 69 6e 3a 20 68 74  74 70 3a 2f 2f 31 30 2e   igin: ht tp://10.
0160  32 35 35 2e 31 2e 31 3a  38 30 39 30 0d 0a 52 65   255.1.1: 8090··Re
0170  66 65 72 65 72 3a 20 68  74 74 70 3a 2f 2f 31 30   ferer: h ttp://10
0180  2e 32 35 35 2e 31 2e 31  3a 38 30 39 30 2f 0d 0a   .255.1.1 :8090/··
0190  41 63 63 65 70 74 2d 45  6e 63 6f 64 69 6e 67 3a   Accept-E ncoding:
01a0  20 67 7a 69 70 2c 20 64  65 66 6c 61 74 65 0d 0a    gzip, d eflate··
01b0  41 63 63 65 70 74 2d 4c  61 6e 67 75 61 67 65 3a   Accept-L anguage:
01c0  20 65 6e 2d 47 42 2c 65  6e 2d 55 53 3b 71 3d 30    en-GB,e n-US;q=0
01d0  2e 39 2c 65 6e 3b 71 3d  30 2e 38 0d 0a 0d 0a 6d   .9,en;q= 0.8····m
01e0  6f 64 65 3d 31 39 31 26  75 73 65 72 6e 61 6d 65   ode=191& username
01f0  3d 32 33 30 31 30 31 30  31 31 38 32 26 70 61 73   =2301010 1182&pas
0200  73 77 6f 72 64 3d 50 61  64 73 75 6d 62 69 79 61   sword=Pa dsumbiya
0210  25 34 30 31 32 33 26 61  3d 31 37 35 33 38 35 39   %40123&a =1753859
0220  39 39 33 37 35 37 26 70  72 6f 64 75 63 74 74 79   993757&p roductty
0230  70 65 3d 30                                        pe=0
```

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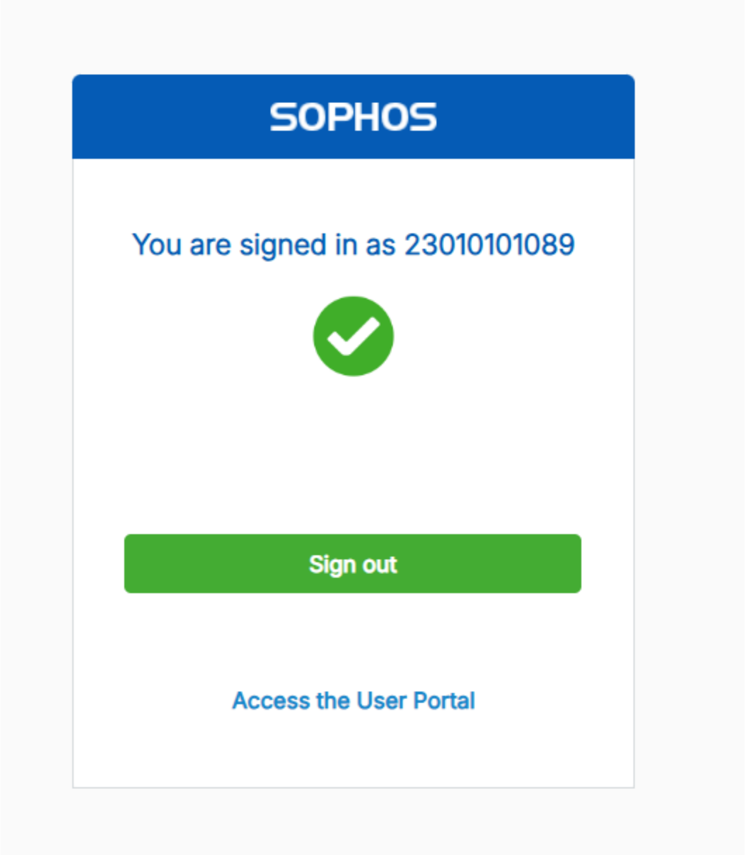
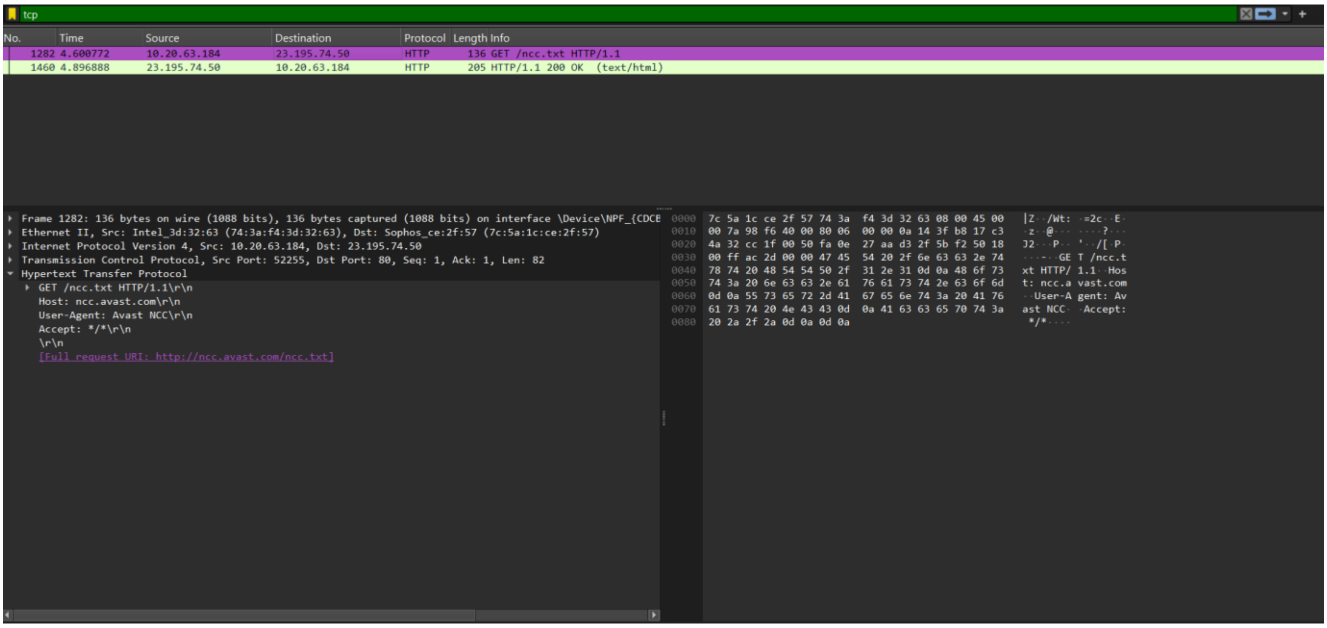


You are signed in as 23010101089

b. TCP



```
No.     Time       Source          Destination     Protocol Length Info
   1282 4.600772   10.20.63.184    23.195.74.50    HTTP     136 GET /ncc.txt HTTP/1.1
   1460 4.896888   23.195.74.50    10.20.63.184    HTTP     205 HTTP/1.1 200 OK  (text/html)
```

```
> Frame 1282: 136 bytes on wire (1088 bits), 136 bytes captured (1088 bits) on interface \Device\NPF_{CDCE
> Ethernet II, Src: Intel_3d:32:63 (74:3a:f4:3d:32:63), Dst: Sophos_ce:2f:57 (7c:5a:1c:ce:2f:57)
> Internet Protocol Version 4, Src: 10.20.63.184, Dst: 23.195.74.50
> Transmission Control Protocol, Src Port: 52255, Dst Port: 80, Seq: 1, Ack: 1, Len: 82
v Hypertext Transfer Protocol
  > GET /ncc.txt HTTP/1.1\r\n
    Host: ncc.avast.com\r\n
    User-Agent: Avast NCC\r\n
    Accept: */*\r\n
    \r\n
    [Full request URI: http://ncc.avast.com/ncc.txt]
```

```
0000  7c 5a 1c ce 2f 57 74 3a  f4 3d 32 63 08 00 45 00   |Z··/Wt: ·=2c··E·
0010  00 7a 98 f6 40 00 80 06  00 00 0a 14 3f b8 17 c3   ·z··@··· ····?···
0020  4a 32 cc 1f 00 50 fa 0e  27 aa d3 2f 5b f2 50 18   J2···P·· '··/[·P·
0030  00 ff ac 2d 00 00 47 45  54 20 2f 6e 63 63 2e 74   ···-··GE T /ncc.t
0040  78 74 20 48 54 54 50 2f  31 2e 31 0d 0a 48 6f 73   xt HTTP/ 1.1··Hos
0050  74 3a 20 6e 63 63 2e 61  76 61 73 74 2e 63 6f 6d   t: ncc.a vast.com
0060  0d 0a 55 73 65 72 2d 41  67 65 6e 74 3a 20 41 76   ··User-A gent: Av
0070  61 73 74 20 4e 43 43 0d  0a 41 63 63 65 70 74 3a   ast NCC· ·Accept:
0080  20 2a 2f 2a 0d 0a 0d 0a                             */*····
```

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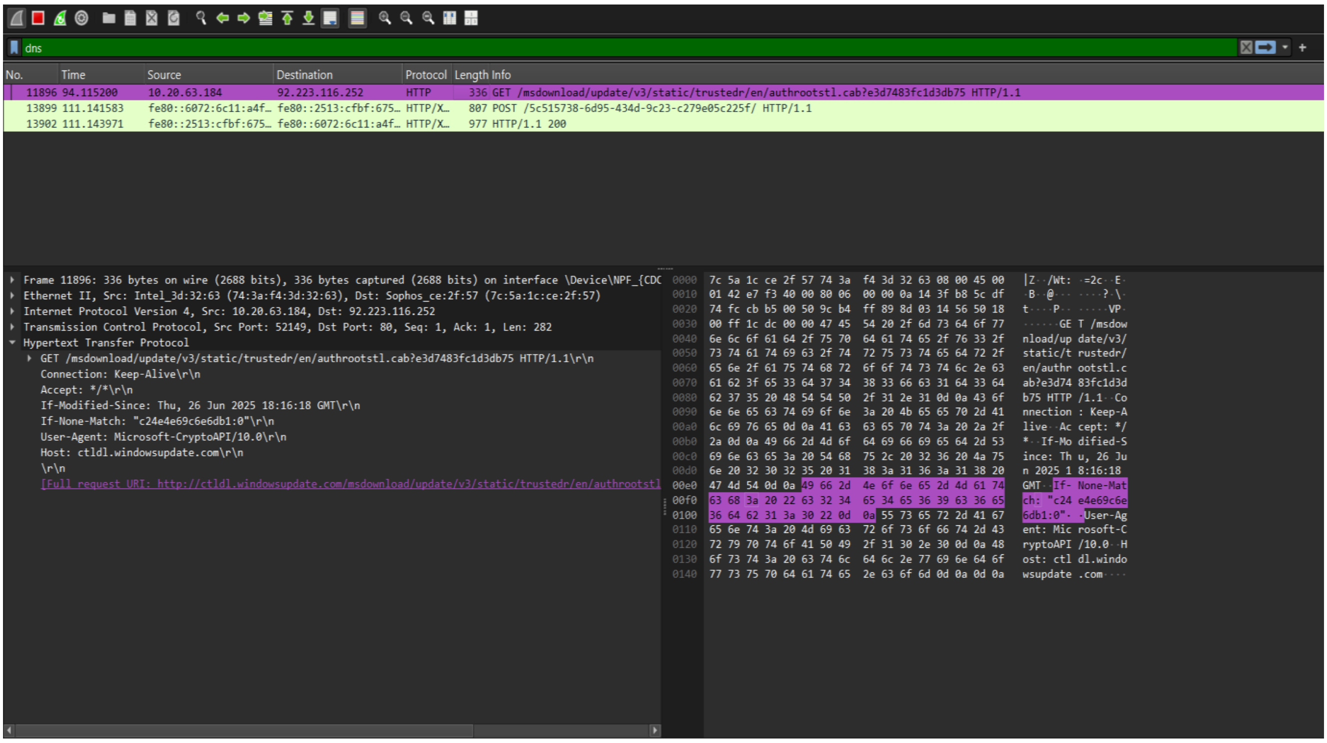
c. DNS

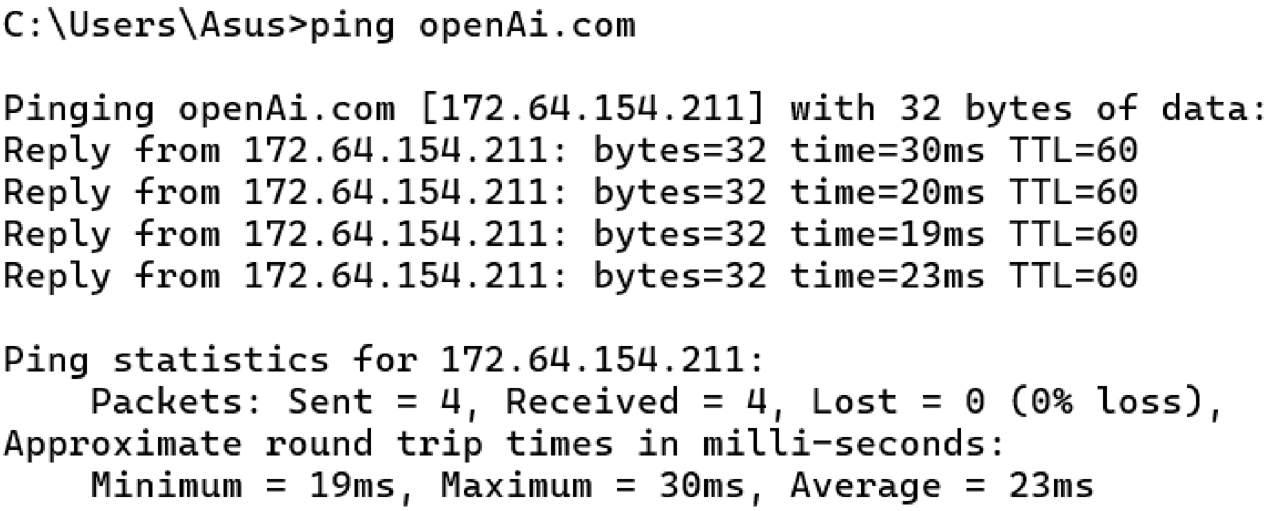


```
dns

No.    Time        Source               Destination          Protocol Length Info
 11896 94.115200   10.20.63.184         92.223.116.252       HTTP       336 GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?e3d7483fc1d3db75 HTTP/1.1
 13899 111.141583  fe80::6072:6c11:a4f… fe80::2513:cfbf:675… HTTP/X…    807 POST /5c515738-6d95-434d-9c23-c279e05c225f/ HTTP/1.1
 13902 111.143971  fe80::2513:cfbf:675… fe80::6072:6c11:a4f… HTTP/X…    977 HTTP/1.1 200
```

```
▸ Frame 11896: 336 bytes on wire (2688 bits), 336 bytes captured (2688 bits) on interface \Device\NPF_{CDC
▸ Ethernet II, Src: Intel_3d:32:63 (74:3a:f4:3d:32:63), Dst: Sophos_ce:2f:57 (7c:5a:1c:ce:2f:57)
▸ Internet Protocol Version 4, Src: 10.20.63.184, Dst: 92.223.116.252
▸ Transmission Control Protocol, Src Port: 52149, Dst Port: 80, Seq: 1, Ack: 1, Len: 282
▾ Hypertext Transfer Protocol
  ▸ GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?e3d7483fc1d3db75 HTTP/1.1\r\n
    Connection: Keep-Alive\r\n
    Accept: */*\r\n
    If-Modified-Since: Thu, 26 Jun 2025 18:16:18 GMT\r\n
    If-None-Match: "c24e4e69c6e6db1:0"\r\n
    User-Agent: Microsoft-CryptoAPI/10.0\r\n
    Host: ctldl.windowsupdate.com\r\n
    \r\n
    [Full request URI: http://ctldl.windowsupdate.com/msdownload/update/v3/static/trustedr/en/authrootstl
```

```
0000  7c 5a 1c ce 2f 57 74 3a  f4 3d 32 63 08 00 45 00   |Z··/Wt: ·=2c··E·
0010  01 42 e7 f3 40 00 80 06  00 00 0a 14 3f b8 5c df   ·B··@··· ····?·\·
0020  74 fc cb b5 00 50 9c b4  ff 89 8d 03 14 56 50 18   t····P·· ·····VP·
0030  00 ff 1c dc 00 00 47 45  54 20 2f 6d 73 64 6f 77   ······GE T /msdow
0040  6e 6c 6f 61 64 2f 75 70  64 61 74 65 2f 76 33 2f   nload/up date/v3/
0050  73 74 61 74 69 63 2f 74  72 75 73 74 65 64 72 2f   static/t rustedr/
0060  65 6e 2f 61 75 74 68 72  6f 6f 74 73 74 6c 2e 63   en/authr ootstl.c
0070  61 62 3f 65 33 64 37 34  38 33 66 63 31 64 33 64   ab?e3d74 83fc1d3d
0080  62 37 35 20 48 54 54 50  2f 31 2e 31 0d 0a 43 6f   b75 HTTP /1.1··Co
0090  6e 6e 65 63 74 69 6f 6e  3a 20 4b 65 65 70 2d 41   nnection : Keep-A
00a0  6c 69 76 65 0d 0a 41 63  63 65 70 74 3a 20 2a 2f   live··Ac cept: */
00b0  2a 0d 0a 49 66 2d 4d 6f  64 69 66 69 65 64 2d 53   *··If-Mo dified-S
00c0  69 6e 63 65 3a 20 54 68  75 2c 20 32 36 20 4a 75   ince: Th u, 26 Ju
00d0  6e 20 32 30 32 35 20 31  38 3a 31 36 3a 31 38 20   n 2025 1 8:16:18 
00e0  47 4d 54 0d 0a 49 66 2d  4e 6f 6e 65 2d 4d 61 74   GMT··If- None-Mat
00f0  63 68 3a 20 22 63 32 34  65 34 65 36 39 63 36 65   ch: "c24 e4e69c6e
0100  36 64 62 31 3a 30 22 0d  0a 55 73 65 72 2d 41 67   6db1:0"· ·User-Ag
0110  65 6e 74 3a 20 4d 69 63  72 6f 73 6f 66 74 2d 43   ent: Mic rosoft-C
0120  72 79 70 74 6f 41 50 49  2f 31 30 2e 30 0d 0a 48   ryptoAPI /10.0··H
0130  6f 73 74 3a 20 63 74 6c  64 6c 2e 77 69 6e 64 6f   ost: ctl dl.windo
0140  77 73 75 70 64 61 74 65  2e 63 6f 6d 0d 0a 0d 0a   wsupdate .com····
```



```
C:\Users\Asus>ping openAi.com

Pinging openAi.com [172.64.154.211] with 32 bytes of data:
Reply from 172.64.154.211: bytes=32 time=30ms TTL=60
Reply from 172.64.154.211: bytes=32 time=20ms TTL=60
Reply from 172.64.154.211: bytes=32 time=19ms TTL=60
Reply from 172.64.154.211: bytes=32 time=23ms TTL=60

Ping statistics for 172.64.154.211:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 19ms, Maximum = 30ms, Average = 23ms
```

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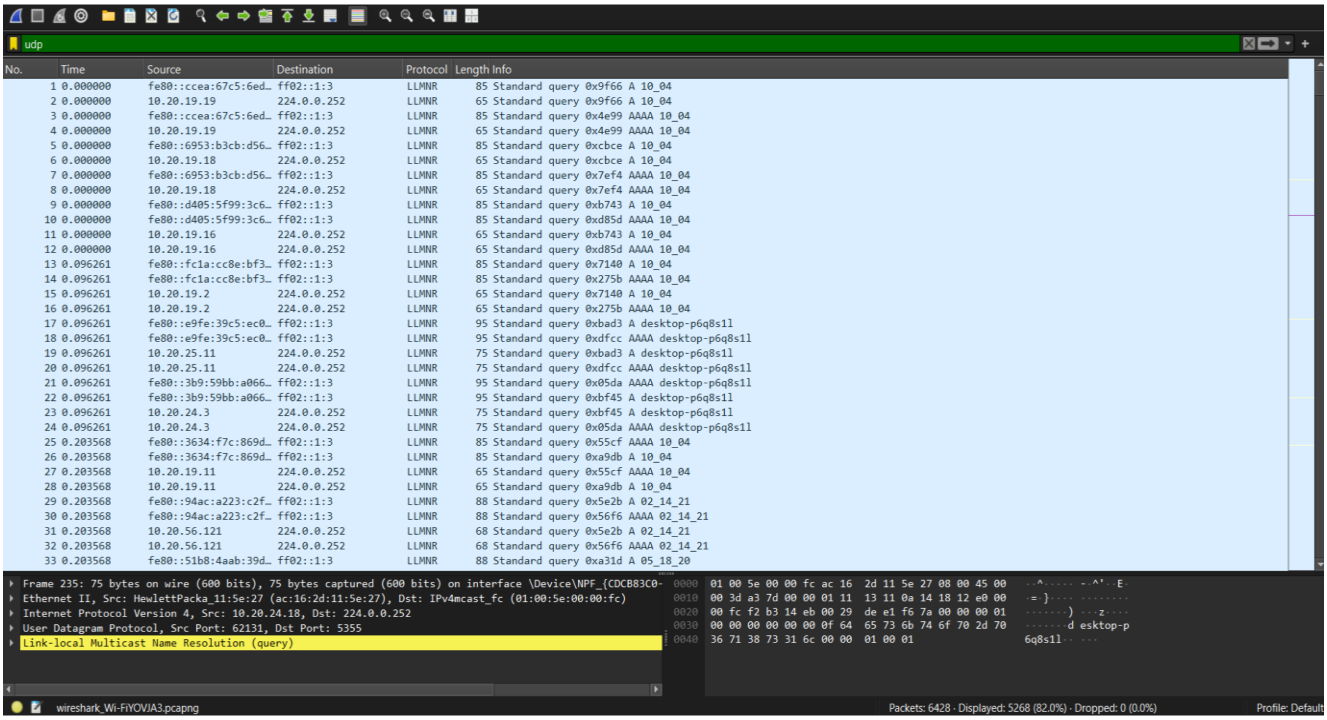
d. UDP



```
udp

No.  Time      Source                  Destination   Protocol Length Info
   1 0.000000  fe80::ccea:67c5:6ed…   ff02::1:3     LLMNR    85 Standard query 0x9f66 A 10_04
   2 0.000000  10.20.19.19            224.0.0.252   LLMNR    65 Standard query 0x9f66 A 10_04
   3 0.000000  fe80::ccea:67c5:6ed…   ff02::1:3     LLMNR    85 Standard query 0x4e99 AAAA 10_04
   4 0.000000  10.20.19.19            224.0.0.252   LLMNR    65 Standard query 0x4e99 AAAA 10_04
   5 0.000000  fe80::6953:b3cb:d56…   ff02::1:3     LLMNR    85 Standard query 0xcbce A 10_04
   6 0.000000  10.20.19.18            224.0.0.252   LLMNR    65 Standard query 0xcbce A 10_04
   7 0.000000  fe80::6953:b3cb:d56…   ff02::1:3     LLMNR    85 Standard query 0x7ef4 AAAA 10_04
   8 0.000000  10.20.19.18            224.0.0.252   LLMNR    65 Standard query 0x7ef4 AAAA 10_04
   9 0.000000  fe80::d405:5f99:3c6…   ff02::1:3     LLMNR    85 Standard query 0xb743 A 10_04
  10 0.000000  fe80::d405:5f99:3c6…   ff02::1:3     LLMNR    85 Standard query 0xd85d AAAA 10_04
  11 0.000000  10.20.19.16            224.0.0.252   LLMNR    65 Standard query 0xb743 A 10_04
  12 0.000000  10.20.19.16            224.0.0.252   LLMNR    65 Standard query 0xd85d AAAA 10_04
  13 0.096261  fe80::fc1a:cc8e:bf3…   ff02::1:3     LLMNR    85 Standard query 0x7140 A 10_04
  14 0.096261  fe80::fc1a:cc8e:bf3…   ff02::1:3     LLMNR    85 Standard query 0x275b AAAA 10_04
  15 0.096261  10.20.19.2             224.0.0.252   LLMNR    65 Standard query 0x7140 A 10_04
  16 0.096261  10.20.19.2             224.0.0.252   LLMNR    65 Standard query 0x275b AAAA 10_04
  17 0.096261  fe80::e9fe:39c5:ec0…   ff02::1:3     LLMNR    95 Standard query 0xbad3 A desktop-p6q8s1l
  18 0.096261  fe80::e9fe:39c5:ec0…   ff02::1:3     LLMNR    95 Standard query 0xdfcc AAAA desktop-p6q8s1l
  19 0.096261  10.20.25.11            224.0.0.252   LLMNR    75 Standard query 0xbad3 A desktop-p6q8s1l
  20 0.096261  10.20.25.11            224.0.0.252   LLMNR    75 Standard query 0xdfcc AAAA desktop-p6q8s1l
  21 0.096261  fe80::3b9:59bb:a066…   ff02::1:3     LLMNR    95 Standard query 0x05da AAAA desktop-p6q8s1l
  22 0.096261  fe80::3b9:59bb:a066…   ff02::1:3     LLMNR    95 Standard query 0xbf45 A desktop-p6q8s1l
  23 0.096261  10.20.24.3             224.0.0.252   LLMNR    75 Standard query 0xbf45 A desktop-p6q8s1l
  24 0.096261  10.20.24.3             224.0.0.252   LLMNR    75 Standard query 0x05da AAAA desktop-p6q8s1l
  25 0.203568  fe80::3634:f7c:869d…   ff02::1:3     LLMNR    85 Standard query 0x55cf AAAA 10_04
  26 0.203568  fe80::3634:f7c:869d…   ff02::1:3     LLMNR    85 Standard query 0xa9db A 10_04
  27 0.203568  10.20.19.11            224.0.0.252   LLMNR    65 Standard query 0x55cf AAAA 10_04
  28 0.203568  10.20.19.11            224.0.0.252   LLMNR    65 Standard query 0xa9db A 10_04
  29 0.203568  fe80::94ac:a223:c2f…   ff02::1:3     LLMNR    88 Standard query 0x5e2b A 02_14_21
  30 0.203568  fe80::94ac:a223:c2f…   ff02::1:3     LLMNR    88 Standard query 0x56f6 AAAA 02_14_21
  31 0.203568  10.20.56.121           224.0.0.252   LLMNR    68 Standard query 0x5e2b A 02_14_21
  32 0.203568  10.20.56.121           224.0.0.252   LLMNR    68 Standard query 0x56f6 AAAA 02_14_21
  33 0.203568  fe80::51b8:4aab:39d…   ff02::1:3     LLMNR    88 Standard query 0xa31d A 05_18_20
```

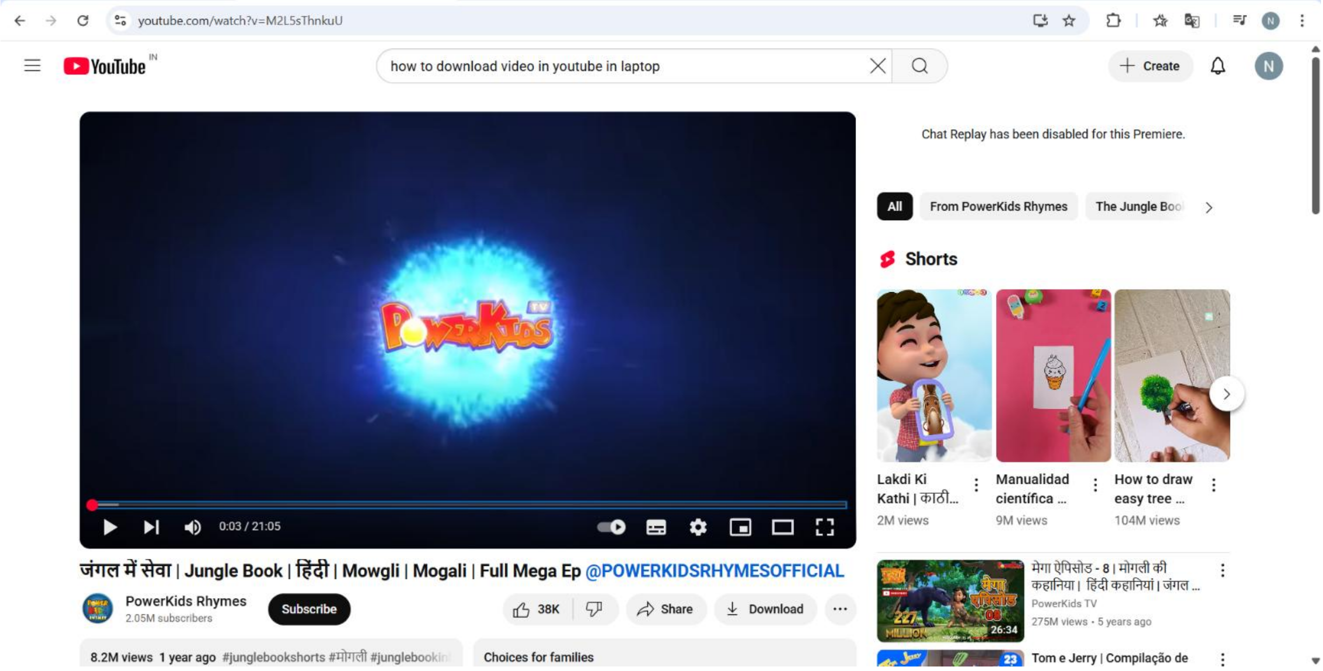
```
Frame 235: 75 bytes on wire (600 bits), 75 bytes captured (600 bits) on interface \Device\NPF_{CDCB83C0-
Ethernet II, Src: HewlettPacka_11:5e:27 (ac:16:2d:11:5e:27), Dst: IPv4mcast_fc (01:00:5e:00:00:fc)
Internet Protocol Version 4, Src: 10.20.24.18, Dst: 224.0.0.252
User Datagram Protocol, Src Port: 62131, Dst Port: 5355
Link-local Multicast Name Resolution (query)
```

```
0000  01 00 5e 00 00 fc ac 16  2d 11 5e 27 08 00 45 00   ··^····· -·^'··E·
0010  00 3d a3 7d 00 00 01 11  13 11 0a 14 18 12 e0 00   ·=·}···· ········
0020  00 fc f2 b3 14 eb 00 29  de e1 f6 7a 00 00 00 01   ·······) ···z····
0030  00 00 00 00 00 00 0f 64  65 73 6b 74 6f 70 2d 70   ·······d esktop-p
0040  36 71 38 73 31 6c 00 00  01 00 01                  6q8s1l·· ···
```

wireshark_Wi-FiYOVJA3.pcapng

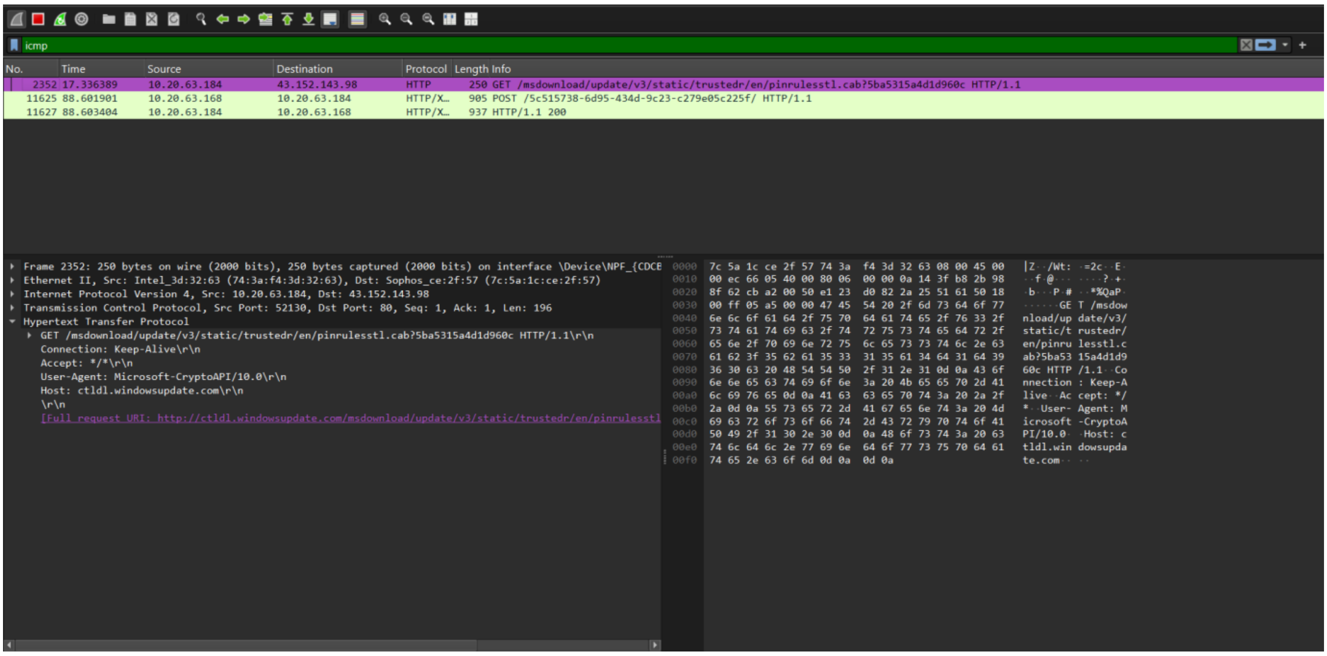
Packets: 6428 · Displayed: 5268 (82.0%) · Dropped: 0 (0.0%)

Profile: Default


youtube.com/watch?v=M2L5sThnkuU
YouTube IN
how to download video in youtube in laptop
Create
N
Chat Replay has been disabled for this Premiere.
All
From PowerKids Rhymes
The Jungle Boo
Shorts
Lakdi Ki Kathi | काठी...
2M views
Manualidad científica ...
9M views
How to draw easy tree ...
104M views
POWERKIDS TV
0:03 / 21:05
जंगल में सेवा | Jungle Book | हिंदी | Mowgli | Mogali | Full Mega Ep @POWERKIDSRHYMESOFFICIAL
PowerKids Rhymes
2.05M subscribers
Subscribe
38K
Share
Download
8.2M views 1 year ago #junglebookshorts #मोगली #junglebooki
Choices for families
मेगा ऐपिसोड - 8 | मोगली की कहानिया | हिंदी कहानियां | जंगल ...
PowerKids TV
275M views · 5 years ago
26:34
Tom e Jerry | Compilação de

Date: 30/07/2025

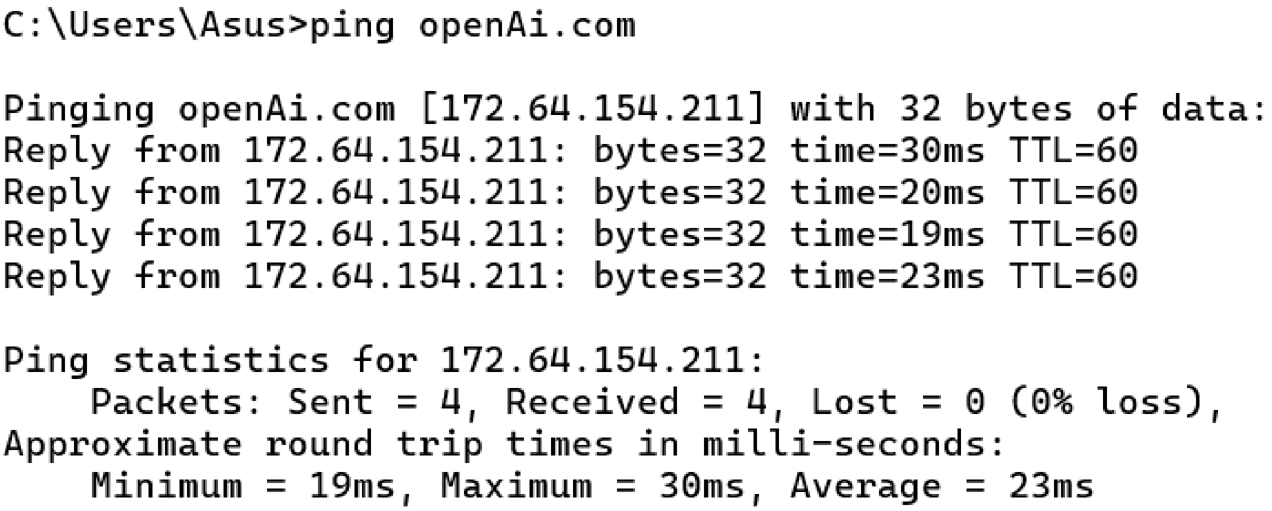
e. ICMP



```
No.    Time       Source        Destination    Protocol Length Info
  2352 17.336389  10.20.63.184  43.152.143.98  HTTP      250 GET /msdownload/update/v3/static/trustedr/en/pinrulesstl.cab?5ba5315a4d1d960c HTTP/1.1
 11625 88.601901  10.20.63.168  10.20.63.184   HTTP/X…   905 POST /5c515738-6d95-434d-9c23-c279e05c225f/ HTTP/1.1
 11627 88.603404  10.20.63.184  10.20.63.168   HTTP/X…   937 HTTP/1.1 200
```

```
Frame 2352: 250 bytes on wire (2000 bits), 250 bytes captured (2000 bits) on interface \Device\NPF_{CDCE
Ethernet II, Src: Intel_3d:32:63 (74:3a:f4:3d:32:63), Dst: Sophos_ce:2f:57 (7c:5a:1c:ce:2f:57)
Internet Protocol Version 4, Src: 10.20.63.184, Dst: 43.152.143.98
Transmission Control Protocol, Src Port: 52130, Dst Port: 80, Seq: 1, Ack: 1, Len: 196
Hypertext Transfer Protocol
  GET /msdownload/update/v3/static/trustedr/en/pinrulesstl.cab?5ba5315a4d1d960c HTTP/1.1\r\n
  Connection: Keep-Alive\r\n
  Accept: */*\r\n
  User-Agent: Microsoft-CryptoAPI/10.0\r\n
  Host: ctldl.windowsupdate.com\r\n
  \r\n
  [Full request URI: http://ctldl.windowsupdate.com/msdownload/update/v3/static/trustedr/en/pinrulesstl
```

```
0000  7c 5a 1c ce 2f 57 74 3a  f4 3d 32 63 08 00 45 00   |Z··/Wt: ·=2c··E·
0010  00 ec 66 05 40 00 80 06  00 00 0a 14 3f b8 2b 98   ··f·@··· ····?·+·
0020  8f 62 cb a2 00 50 e1 23  d0 82 2a 25 51 61 50 18   ·b···P·# ··*%QaP·
0030  00 ff 05 a5 00 00 47 45  54 20 2f 6d 73 64 6f 77   ······GE T /msdow
0040  6e 6c 6f 61 64 2f 75 70  64 61 74 65 2f 76 33 2f   nload/up date/v3/
0050  73 74 61 74 69 63 2f 74  72 75 73 74 65 64 72 2f   static/t rustedr/
0060  65 6e 2f 70 69 6e 72 75  6c 65 73 73 74 6c 2e 63   en/pinru lesstl.c
0070  61 62 3f 35 62 61 35 33  31 35 61 34 64 31 64 39   ab?5ba53 15a4d1d9
0080  36 30 63 20 48 54 54 50  2f 31 2e 31 0d 0a 43 6f   60c HTTP /1.1··Co
0090  6e 6e 65 63 74 69 6f 6e  3a 20 4b 65 65 70 2d 41   nnection : Keep-A
00a0  6c 69 76 65 0d 0a 41 63  63 65 70 74 3a 20 2a 2f   live··Ac cept: */
00b0  2a 0d 0a 55 73 65 72 2d  41 67 65 6e 74 3a 20 4d   *··User- Agent: M
00c0  69 63 72 6f 73 6f 66 74  2d 43 72 79 70 74 6f 41   icrosoft -CryptoA
00d0  50 49 2f 31 30 2e 30 0d  0a 48 6f 73 74 3a 20 63   PI/10.0· ·Host: c
00e0  74 6c 64 6c 2e 77 69 6e  64 6f 77 73 75 70 64 61   tldl.win dowsupda
00f0  74 65 2e 63 6f 6d 0d 0a  0d 0a                     te.com·· ··
```



```
C:\Users\Asus>ping openAi.com

Pinging openAi.com [172.64.154.211] with 32 bytes of data:
Reply from 172.64.154.211: bytes=32 time=30ms TTL=60
Reply from 172.64.154.211: bytes=32 time=20ms TTL=60
Reply from 172.64.154.211: bytes=32 time=19ms TTL=60
Reply from 172.64.154.211: bytes=32 time=23ms TTL=60

Ping statistics for 172.64.154.211:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 19ms, Maximum = 30ms, Average = 23ms
```