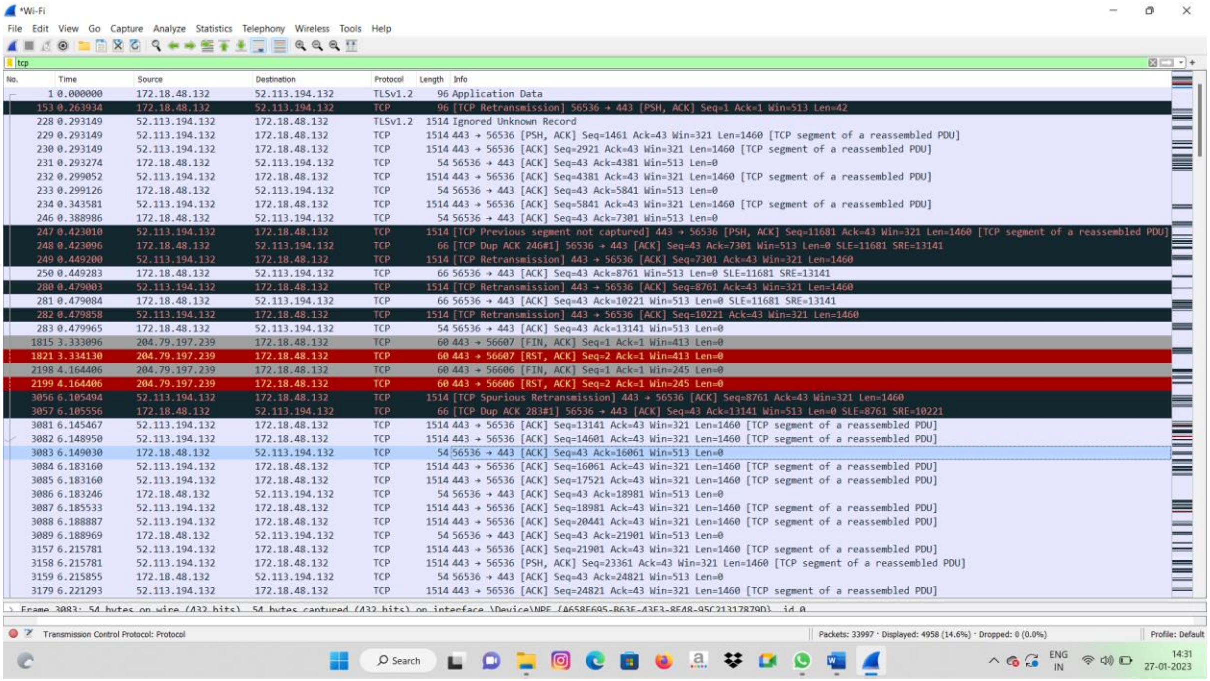
EXPERIMENT 2:

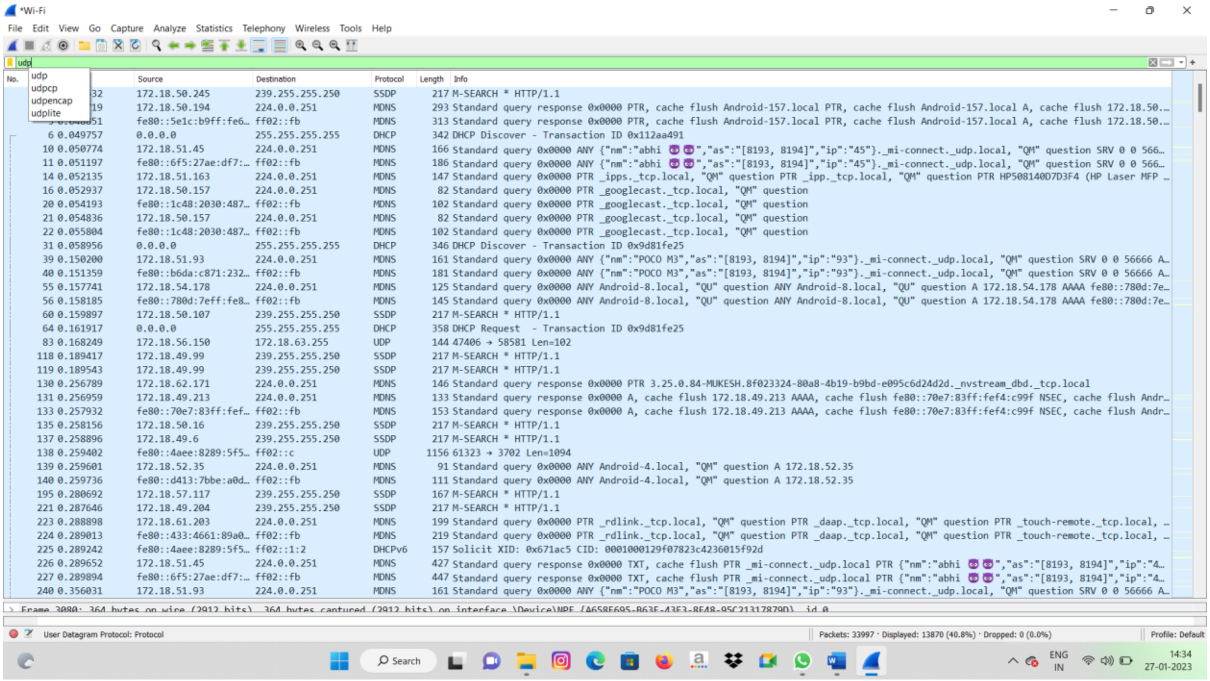

*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Search
ENG
IN
14:31
27-01-2023

```
tcp
```

```
No.   Time        Source            Destination       Protocol  Length Info
    1 0.000000    172.18.48.132     52.113.194.132    TLSv1.2     96 Application Data
  153 0.263934    172.18.48.132     52.113.194.132    TCP         96 [TCP Retransmission] 56536 → 443 [PSH, ACK] Seq=1 Ack=1 Win=513 Len=42
  228 0.293149    52.113.194.132    172.18.48.132     TLSv1.2   1514 Ignored Unknown Record
  229 0.293149    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [PSH, ACK] Seq=1461 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
  230 0.293149    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=2921 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
  231 0.293274    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=4381 Win=513 Len=0
  232 0.299052    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=4381 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
  233 0.299126    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=5841 Win=513 Len=0
  234 0.343581    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=5841 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
  246 0.388986    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=7301 Win=513 Len=0
  247 0.423010    52.113.194.132    172.18.48.132     TCP       1514 [TCP Previous segment not captured] 443 → 56536 [PSH, ACK] Seq=11681 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
  248 0.423096    172.18.48.132     52.113.194.132    TCP         66 [TCP Dup ACK 246#1] 56536 → 443 [ACK] Seq=43 Ack=7301 Win=513 Len=0 SLE=11681 SRE=13141
  249 0.449200    52.113.194.132    172.18.48.132     TCP       1514 [TCP Retransmission] 443 → 56536 [ACK] Seq=7301 Ack=43 Win=321 Len=1460
  250 0.449283    172.18.48.132     52.113.194.132    TCP         66 56536 → 443 [ACK] Seq=43 Ack=8761 Win=513 Len=0 SLE=11681 SRE=13141
  280 0.479003    52.113.194.132    172.18.48.132     TCP       1514 [TCP Retransmission] 443 → 56536 [ACK] Seq=8761 Ack=43 Win=321 Len=1460
  281 0.479084    172.18.48.132     52.113.194.132    TCP         66 56536 → 443 [ACK] Seq=43 Ack=10221 Win=513 Len=0 SLE=11681 SRE=13141
  282 0.479858    52.113.194.132    172.18.48.132     TCP       1514 [TCP Retransmission] 443 → 56536 [ACK] Seq=10221 Ack=43 Win=321 Len=1460
  283 0.479965    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=13141 Win=513 Len=0
 1815 3.333096    204.79.197.239    172.18.48.132     TCP         60 443 → 56607 [FIN, ACK] Seq=1 Ack=1 Win=413 Len=0
 1821 3.334130    204.79.197.239    172.18.48.132     TCP         60 443 → 56607 [RST, ACK] Seq=2 Ack=1 Win=413 Len=0
 2198 4.164406    204.79.197.239    172.18.48.132     TCP         60 443 → 56606 [FIN, ACK] Seq=1 Ack=1 Win=245 Len=0
 2199 4.164406    204.79.197.239    172.18.48.132     TCP         60 443 → 56606 [RST, ACK] Seq=2 Ack=1 Win=245 Len=0
 3056 6.105494    52.113.194.132    172.18.48.132     TCP       1514 [TCP Spurious Retransmission] 443 → 56536 [ACK] Seq=8761 Ack=43 Win=321 Len=1460
 3057 6.105556    172.18.48.132     52.113.194.132    TCP         66 [TCP Dup ACK 283#1] 56536 → 443 [ACK] Seq=43 Ack=13141 Win=513 Len=0 SLE=8761 SRE=10221
 3081 6.145467    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=13141 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3082 6.148950    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=14601 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3083 6.149030    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=16061 Win=513 Len=0
 3084 6.183160    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=16061 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3085 6.183160    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=17521 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3086 6.183246    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=18981 Win=513 Len=0
 3087 6.185533    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=18981 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3088 6.188887    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=20441 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3089 6.188969    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=21901 Win=513 Len=0
 3157 6.215781    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=21901 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3158 6.215781    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [PSH, ACK] Seq=23361 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]
 3159 6.215855    172.18.48.132     52.113.194.132    TCP         54 56536 → 443 [ACK] Seq=43 Ack=24821 Win=513 Len=0
 3179 6.221293    52.113.194.132    172.18.48.132     TCP       1514 443 → 56536 [ACK] Seq=24821 Ack=43 Win=321 Len=1460 [TCP segment of a reassembled PDU]

> Frame 3083: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{A658F695-B63F-43F3-8F48-95C21317879D}, id 0

Transmission Control Protocol: Protocol     Packets: 33997 · Displayed: 4958 (14.6%) · Dropped: 0 (0.0%)     Profile: Default
```


*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
udp
udpcp
udpencap
udplite
Search
ENG
IN
14:34
27-01-2023

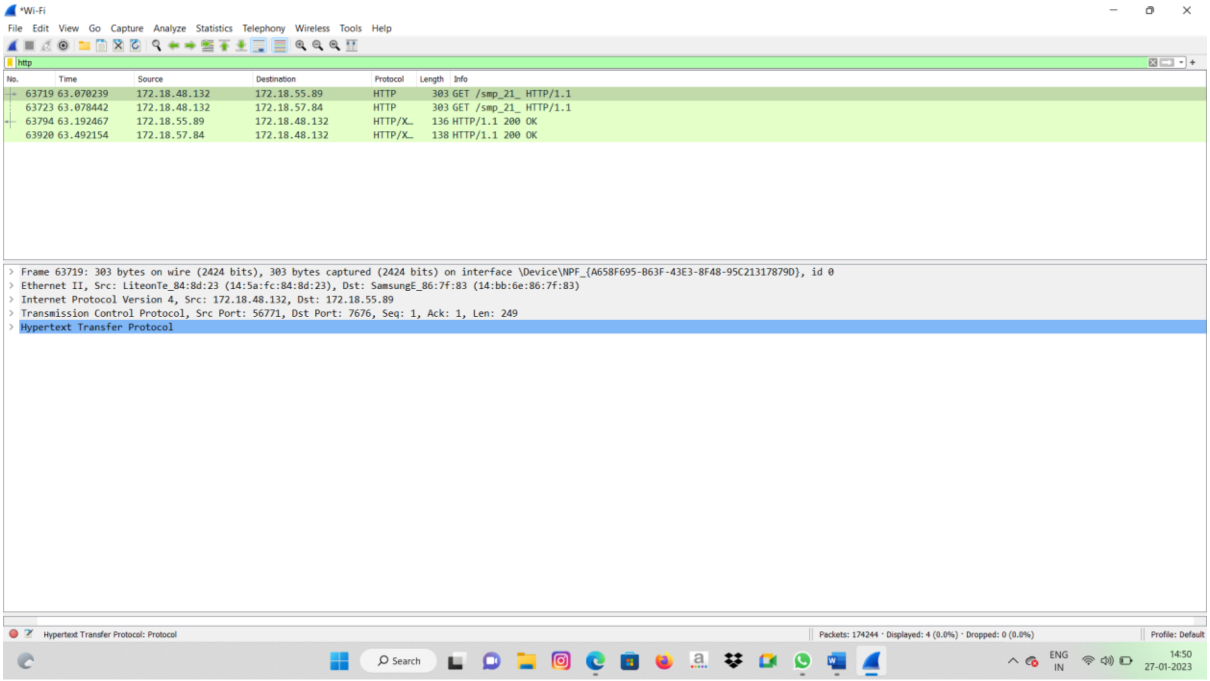
```
udp
```

```
No.   Time        Source                Destination       Protocol  Length Info
   32             172.18.50.245         239.255.255.250   SSDP       217 M-SEARCH * HTTP/1.1
   19             172.18.50.194         224.0.0.251       MDNS       293 Standard query response 0x0000 PTR, cache flush Android-157.local PTR, cache flush Android-157.local A, cache flush 172.18.50.…
    5 0.0   51    fe80::5e1c:b9ff:fe6…  ff02::fb          MDNS       313 Standard query response 0x0000 PTR, cache flush Android-157.local PTR, cache flush Android-157.local A, cache flush 172.18.50.…
    6 0.049757    0.0.0.0               255.255.255.255   DHCP       342 DHCP Discover - Transaction ID 0x112aa491
   10 0.050774    172.18.51.45          224.0.0.251       MDNS       166 Standard query 0x0000 ANY {"nm":"abhi 😈😈","as":"[8193, 8194]","ip":"45"}._mi-connect._udp.local, "QM" question SRV 0 0 566…
   11 0.051197    fe80::6f5:27ae:df7:…  ff02::fb          MDNS       186 Standard query 0x0000 ANY {"nm":"abhi 😈😈","as":"[8193, 8194]","ip":"45"}._mi-connect._udp.local, "QM" question SRV 0 0 566…
   14 0.052135    172.18.51.163         224.0.0.251       MDNS       147 Standard query 0x0000 PTR _ipps._tcp.local, "QM" question PTR _ipp._tcp.local, "QM" question PTR HP508140D7D3F4 (HP Laser MFP …
   16 0.052937    172.18.50.157         224.0.0.251       MDNS        82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
   20 0.054193    fe80::1c48:2030:487…  ff02::fb          MDNS       102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
   21 0.054836    172.18.50.157         224.0.0.251       MDNS        82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
   22 0.055804    fe80::1c48:2030:487…  ff02::fb          MDNS       102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
   31 0.058956    0.0.0.0               255.255.255.255   DHCP       346 DHCP Discover - Transaction ID 0x9d81fe25
   39 0.150200    172.18.51.93          224.0.0.251       MDNS       161 Standard query 0x0000 ANY {"nm":"POCO M3","as":"[8193, 8194]","ip":"93"}._mi-connect._udp.local, "QM" question SRV 0 0 56666 A…
   40 0.151359    fe80::b6da:c871:232…  ff02::fb          MDNS       181 Standard query 0x0000 ANY {"nm":"POCO M3","as":"[8193, 8194]","ip":"93"}._mi-connect._udp.local, "QM" question SRV 0 0 56666 A…
   55 0.157741    172.18.54.178         224.0.0.251       MDNS       125 Standard query 0x0000 ANY Android-8.local, "QU" question ANY Android-8.local, "QU" question A 172.18.54.178 AAAA fe80::780d:7e…
   56 0.158185    fe80::780d:7eff:fe8…  ff02::fb          MDNS       145 Standard query 0x0000 ANY Android-8.local, "QU" question ANY Android-8.local, "QU" question A 172.18.54.178 AAAA fe80::780d:7e…
   60 0.159897    172.18.50.107         239.255.255.250   SSDP       217 M-SEARCH * HTTP/1.1
   64 0.161917    0.0.0.0               255.255.255.255   DHCP       358 DHCP Request  - Transaction ID 0x9d81fe25
   83 0.168249    172.18.56.150         172.18.63.255     UDP        144 47406 → 58581 Len=102
  118 0.189417    172.18.49.99          239.255.255.250   SSDP       217 M-SEARCH * HTTP/1.1
  119 0.189543    172.18.49.99          239.255.255.250   SSDP       217 M-SEARCH * HTTP/1.1
  130 0.256789    172.18.62.171         224.0.0.251       MDNS       146 Standard query response 0x0000 PTR 3.25.0.84-MUKESH.8f023324-80a8-4b19-b9bd-e095c6d24d2d._nvstream_dbd._tcp.local
  131 0.256959    172.18.49.213         224.0.0.251       MDNS       133 Standard query response 0x0000 A, cache flush 172.18.49.213 AAAA, cache flush fe80::70e7:83ff:fef4:c99f NSEC, cache flush Andr…
  133 0.257932    fe80::70e7:83ff:fef…  ff02::fb          MDNS       153 Standard query response 0x0000 A, cache flush 172.18.49.213 AAAA, cache flush fe80::70e7:83ff:fef4:c99f NSEC, cache flush Andr…
  135 0.258156    172.18.50.16          239.255.255.250   SSDP       217 M-SEARCH * HTTP/1.1
  137 0.258896    172.18.49.6           239.255.255.250   SSDP       217 M-SEARCH * HTTP/1.1
  138 0.259402    fe80::4aee:8289:5f5…  ff02::c           UDP       1156 61323 → 3702 Len=1094
  139 0.259601    172.18.52.35          224.0.0.251       MDNS        91 Standard query 0x0000 ANY Android-4.local, "QM" question A 172.18.52.35
  140 0.259736    fe80::d413:7bbe:a0d…  ff02::fb          MDNS       111 Standard query 0x0000 ANY Android-4.local, "QM" question A 172.18.52.35
  195 0.280692    172.18.57.117         239.255.255.250   SSDP       167 M-SEARCH * HTTP/1.1
  221 0.287646    172.18.49.204         239.255.255.250   SSDP       217 M-SEARCH * HTTP/1.1
  223 0.288898    172.18.61.203         224.0.0.251       MDNS       199 Standard query 0x0000 PTR _rdlink._tcp.local, "QM" question PTR _daap._tcp.local, "QM" question PTR _touch-remote._tcp.local, …
  224 0.289013    fe80::433:4661:89a0…  ff02::fb          MDNS       219 Standard query 0x0000 PTR _rdlink._tcp.local, "QM" question PTR _daap._tcp.local, "QM" question PTR _touch-remote._tcp.local, …
  225 0.289242    fe80::4aee:8289:5f5…  ff02::1:2         DHCPv6     157 Solicit XID: 0x671ac5 CID: 0001000129f07823c4236015f92d
  226 0.289652    172.18.51.45          224.0.0.251       MDNS       427 Standard query response 0x0000 TXT, cache flush PTR _mi-connect._udp.local PTR {"nm":"abhi 😈😈","as":"[8193, 8194]","ip":"4…
  227 0.289894    fe80::6f5:27ae:df7:…  ff02::fb          MDNS       447 Standard query response 0x0000 TXT, cache flush PTR _mi-connect._udp.local PTR {"nm":"abhi 😈😈","as":"[8193, 8194]","ip":"4…
  240 0.356031    172.18.51.93          224.0.0.251       MDNS       161 Standard query 0x0000 ANY {"nm":"POCO M3","as":"[8193, 8194]","ip":"93"}._mi-connect._udp.local, "QM" question SRV 0 0 56666 A…

> Frame 3080: 364 bytes on wire (2912 bits), 364 bytes captured (2912 bits) on interface \Device\NPF_{A658F695-B63F-43F3-8F48-95C21317879D}, id 0

User Datagram Protocol: Protocol     Packets: 33997 · Displayed: 13870 (40.8%) · Dropped: 0 (0.0%)     Profile: Default
```

EXPERIMENT 2:

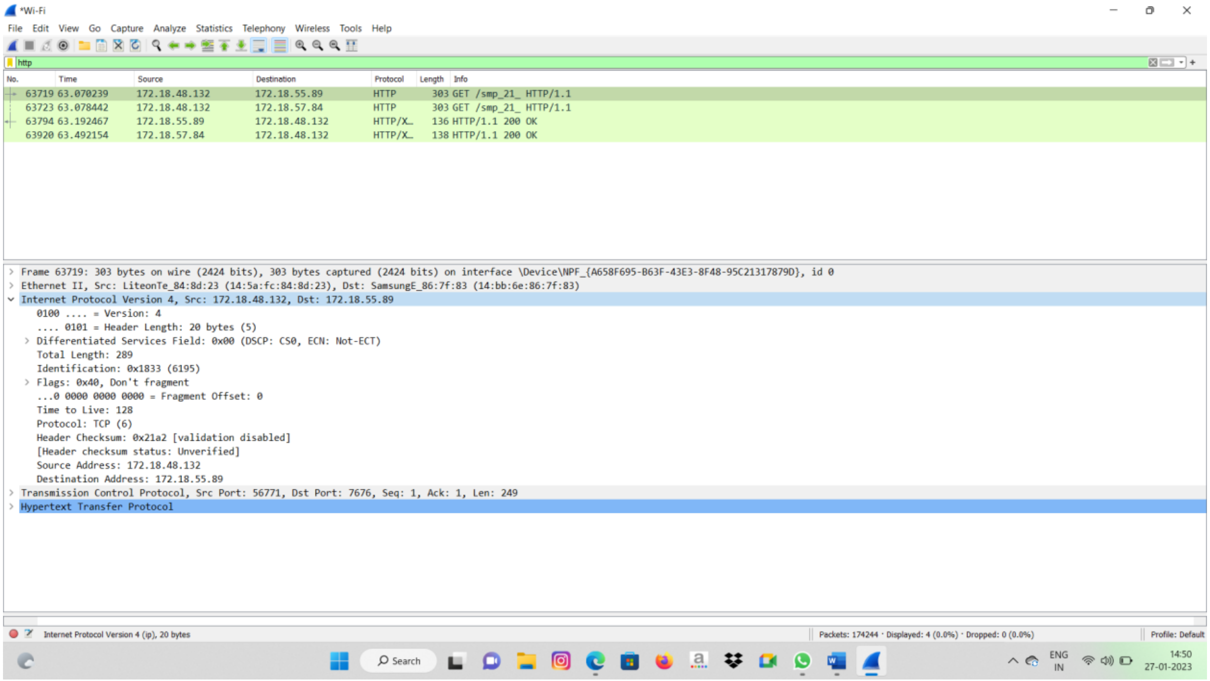

*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http

```
No.    Time       Source          Destination     Protocol  Length Info
63719 63.070239   172.18.48.132   172.18.55.89    HTTP      303 GET /smp_21_ HTTP/1.1
63723 63.078442   172.18.48.132   172.18.57.84    HTTP      303 GET /smp_21_ HTTP/1.1
63794 63.192467   172.18.55.89    172.18.48.132   HTTP/X…   136 HTTP/1.1 200 OK
63920 63.492154   172.18.57.84    172.18.48.132   HTTP/X…   138 HTTP/1.1 200 OK
```

```
> Frame 63719: 303 bytes on wire (2424 bits), 303 bytes captured (2424 bits) on interface \Device\NPF_{A658F695-B63F-43E3-8F48-95C21317879D}, id 0
> Ethernet II, Src: LiteonTe_84:8d:23 (14:5a:fc:84:8d:23), Dst: SamsungE_86:7f:83 (14:bb:6e:86:7f:83)
> Internet Protocol Version 4, Src: 172.18.48.132, Dst: 172.18.55.89
> Transmission Control Protocol, Src Port: 56771, Dst Port: 7676, Seq: 1, Ack: 1, Len: 249
> Hypertext Transfer Protocol
```

Hypertext Transfer Protocol: Protocol | Packets: 174244 · Displayed: 4 (0.0%) · Dropped: 0 (0.0%) | Profile: Default

Search
ENG IN
14:50
27-01-2023

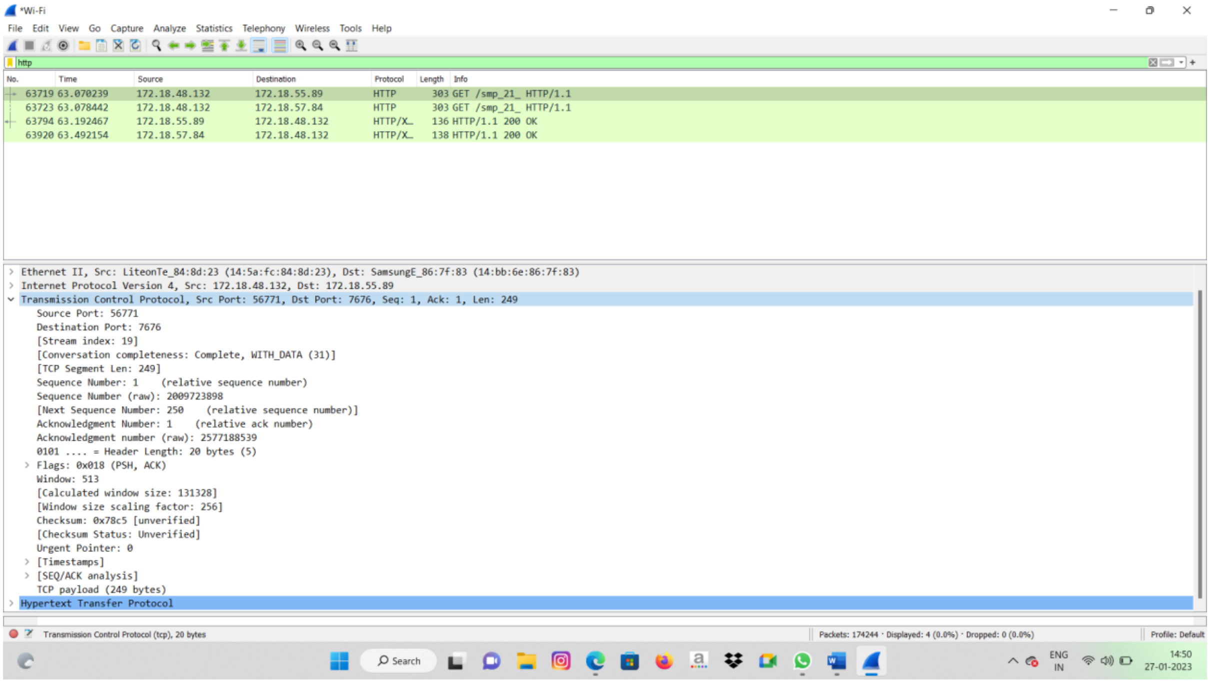

*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http

```
No.    Time       Source          Destination     Protocol  Length Info
63719 63.070239   172.18.48.132   172.18.55.89    HTTP      303 GET /smp_21_ HTTP/1.1
63723 63.078442   172.18.48.132   172.18.57.84    HTTP      303 GET /smp_21_ HTTP/1.1
63794 63.192467   172.18.55.89    172.18.48.132   HTTP/X…   136 HTTP/1.1 200 OK
63920 63.492154   172.18.57.84    172.18.48.132   HTTP/X…   138 HTTP/1.1 200 OK
```

```
> Frame 63719: 303 bytes on wire (2424 bits), 303 bytes captured (2424 bits) on interface \Device\NPF_{A658F695-B63F-43E3-8F48-95C21317879D}, id 0
> Ethernet II, Src: LiteonTe_84:8d:23 (14:5a:fc:84:8d:23), Dst: SamsungE_86:7f:83 (14:bb:6e:86:7f:83)
v Internet Protocol Version 4, Src: 172.18.48.132, Dst: 172.18.55.89
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 289
    Identification: 0x1833 (6195)
  > Flags: 0x40, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 128
    Protocol: TCP (6)
    Header Checksum: 0x21a2 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 172.18.48.132
    Destination Address: 172.18.55.89
> Transmission Control Protocol, Src Port: 56771, Dst Port: 7676, Seq: 1, Ack: 1, Len: 249
> Hypertext Transfer Protocol
```

Internet Protocol Version 4 (ip), 20 bytes | Packets: 174244 · Displayed: 4 (0.0%) · Dropped: 0 (0.0%) | Profile: Default

EXPERIMENT 2:


*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http
Search
ENG
IN
14:50
27-01-2023

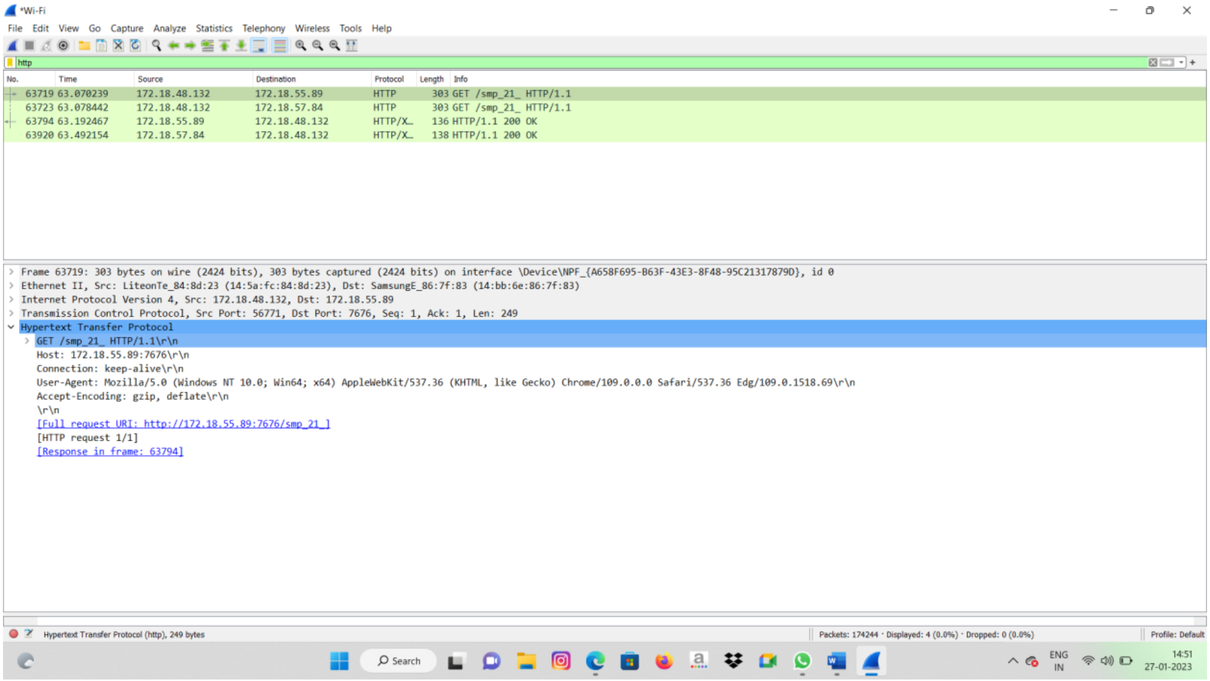
```
No.   Time         Source          Destination     Protocol  Length Info
63719 63.070239    172.18.48.132   172.18.55.89    HTTP       303 GET /smp_21_ HTTP/1.1
63723 63.078442    172.18.48.132   172.18.57.84    HTTP       303 GET /smp_21_ HTTP/1.1
63794 63.192467    172.18.55.89    172.18.48.132   HTTP/X…    136 HTTP/1.1 200 OK
63920 63.492154    172.18.57.84    172.18.48.132   HTTP/X…    138 HTTP/1.1 200 OK
```

```
> Ethernet II, Src: LiteonTe_84:8d:23 (14:5a:fc:84:8d:23), Dst: SamsungE_86:7f:83 (14:bb:6e:86:7f:83)
> Internet Protocol Version 4, Src: 172.18.48.132, Dst: 172.18.55.89
v Transmission Control Protocol, Src Port: 56771, Dst Port: 7676, Seq: 1, Ack: 1, Len: 249
    Source Port: 56771
    Destination Port: 7676
    [Stream index: 19]
    [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 249]
    Sequence Number: 1    (relative sequence number)
    Sequence Number (raw): 2009723898
    [Next Sequence Number: 250    (relative sequence number)]
    Acknowledgment Number: 1    (relative ack number)
    Acknowledgment number (raw): 2577188539
    0101 .... = Header Length: 20 bytes (5)
  > Flags: 0x018 (PSH, ACK)
    Window: 513
    [Calculated window size: 131328]
    [Window size scaling factor: 256]
    Checksum: 0x78c5 [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
  > [Timestamps]
  > [SEQ/ACK analysis]
    TCP payload (249 bytes)
> Hypertext Transfer Protocol
```

Transmission Control Protocol (tcp), 20 bytes

Packets: 174244 · Displayed: 4 (0.0%) · Dropped: 0 (0.0%)

Profile: Default


*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http
Search
ENG
IN
14:51
27-01-2023

```
No.   Time         Source          Destination     Protocol  Length Info
63719 63.070239    172.18.48.132   172.18.55.89    HTTP       303 GET /smp_21_ HTTP/1.1
63723 63.078442    172.18.48.132   172.18.57.84    HTTP       303 GET /smp_21_ HTTP/1.1
63794 63.192467    172.18.55.89    172.18.48.132   HTTP/X…    136 HTTP/1.1 200 OK
63920 63.492154    172.18.57.84    172.18.48.132   HTTP/X…    138 HTTP/1.1 200 OK
```

```
> Frame 63719: 303 bytes on wire (2424 bits), 303 bytes captured (2424 bits) on interface \Device\NPF_{A658F695-B63F-43E3-8F48-95C21317879D}, id 0
> Ethernet II, Src: LiteonTe_84:8d:23 (14:5a:fc:84:8d:23), Dst: SamsungE_86:7f:83 (14:bb:6e:86:7f:83)
> Internet Protocol Version 4, Src: 172.18.48.132, Dst: 172.18.55.89
> Transmission Control Protocol, Src Port: 56771, Dst Port: 7676, Seq: 1, Ack: 1, Len: 249
v Hypertext Transfer Protocol
  > GET /smp_21_ HTTP/1.1\r\n
    Host: 172.18.55.89:7676\r\n
    Connection: keep-alive\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36 Edg/109.0.1518.69\r\n
    Accept-Encoding: gzip, deflate\r\n
    \r\n
    [Full request URI: http://172.18.55.89:7676/smp_21_]
    [HTTP request 1/1]
    [Response in frame: 63794]
```

Hypertext Transfer Protocol (http), 249 bytes

Packets: 174244 · Displayed: 4 (0.0%) · Dropped: 0 (0.0%)

Profile: Default