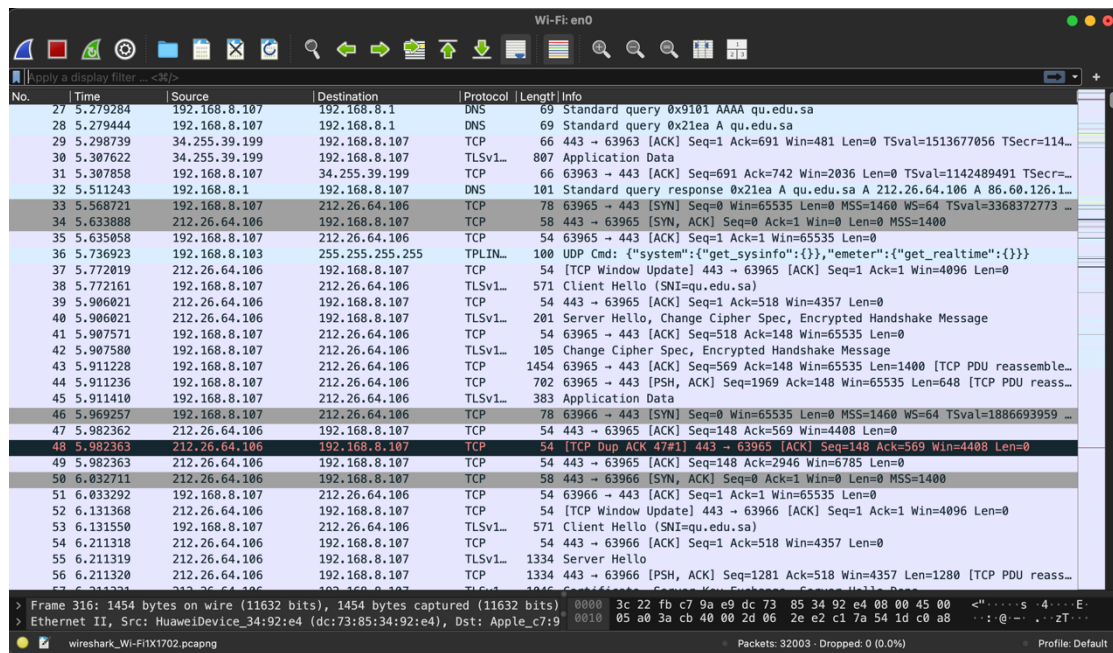


LabWeek2

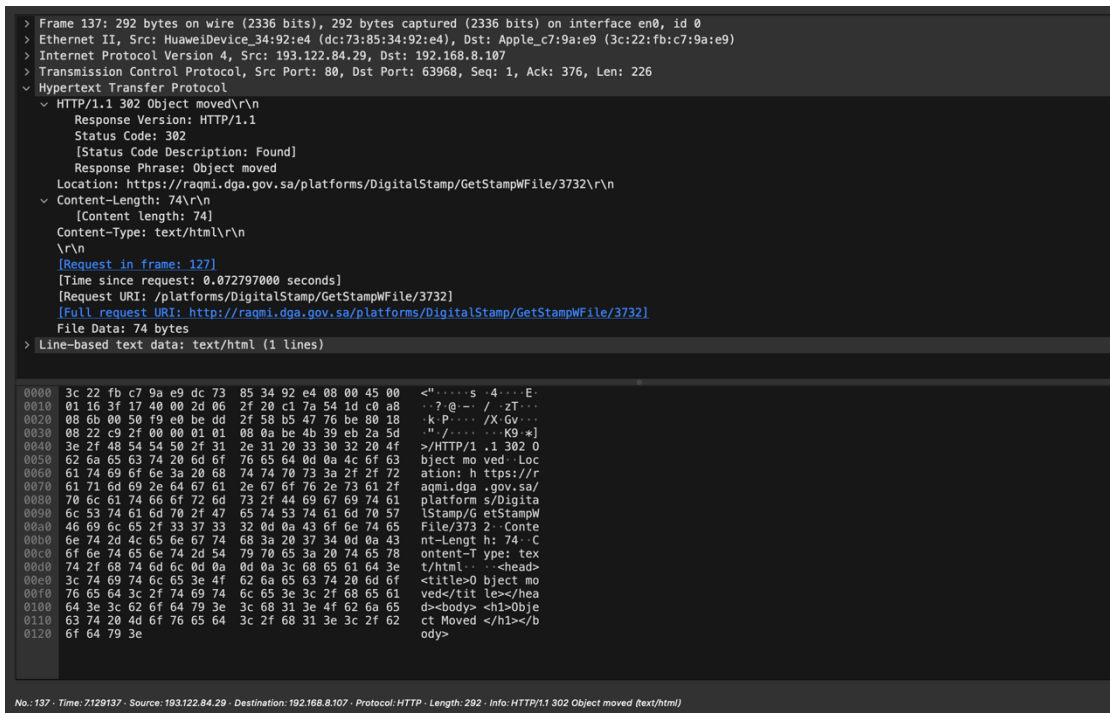
Part 1: Capturing HTTP Traffic.

Start Wireshark and capture packets.



Filter HTTP packets and analyze them.

137	7.129137	193.122.84.29	192.168.8.107	HTTP	292 HTTP/1.1 302 Object moved (text/html)
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Part 2: Analyzing TCP/IP Traffic.

No.	Time	Source	Destination	Protocol	Length	Info
144	7.136880	192.168.8.107	193.122.84.29	TCP	78	63970 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSval=3734405063 ...
156	7.195343	193.122.84.29	192.168.8.107	TCP	74	443 → 63970 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1400 SACK_PERM TS...
157	7.195824	192.168.8.107	193.122.84.29	TCP	66	63970 → 443 [ACK] Seq=1 Ack=1 Win=131840 Len=0 TSval=3734405122 TSecr=31...

Part 3: Capturing and Analyzing UDP Traffic.

5253 14.360880 192.168.8.107 172.217.19.142 UDP 77 56325 → 443 Len=35

```
> Frame 5253: 77 bytes on wire (616 bits), 77 bytes captured (616 bits) on interface en0, id 0
> Ethernet II, Src: Apple_c7:9a:e9 (3c:22:fb:c7:9a:e9), Dst: HuaweiDevice_34:92:e4 (dc:73:85:34:92:e4)
> Internet Protocol Version 4, Src: 192.168.8.107, Dst: 172.217.19.142
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x02 (DSCP: CS0, ECN: ECT(0))
    Total Length: 63
    Identification: 0x0000 (0)
  > 010. .... = Flags: 0x2, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 64
    Protocol: UDP (17)
    Header Checksum: 0xb131 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.8.107
    Destination Address: 172.217.19.142
    [Stream index: 6]
  > User Datagram Protocol, Src Port: 56325, Dst Port: 443
    Source Port: 56325
    Destination Port: 443
    Length: 43
    Checksum: 0xe953 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 11]
    [Stream Packet Number: 197]
  > [Timestamps]
  > UDP payload (35 bytes)
  > Data (35 bytes)
```

```
0000 dc 73 85 34 92 e4 3c 22 fb c7 9a e9 08 00 45 02 .s.4..<" .....E.
0010 00 3f 00 00 00 00 00 11 b1 31 c0 a8 08 6b ac d9 .7..@. .1...k..
0020 13 8e dc 05 01 bb 00 2b e9 53 79 f2 49 bc 32 42 .....+ .Sy.I.2B
0030 46 e6 14 69 3c 6a 26 d6 ec f4 20 64 97 65 e2 1e F..i<j& ..d.e..
0040 23 df ea aa a8 d3 ba 14 ea 13 96 23 82 #.....#.
```