## Q1. What is the IP address of your computer?

A: Client IP address: 192.168.48.90

```
v Internet Protocol Version 4, Src: 192.168.48.90, Dst: 128.119.245.12
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 546
    Identification: 0x62bd (25277)
  > 010. .... = Flags: 0x2, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 128
    Protocol: TCP (6)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.48.90
    Destination Address: 128.119.245.12
```
HTTP GET packet

## Q2. What is the IP address of the server?

A: Server IP address: 128.119.245.12

```
v Internet Protocol Version 4, Src: 192.168.48.90, Dst: 128.119.245.12
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 546
    Identification: 0x62bd (25277)
  > 010. .... = Flags: 0x2, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 128
    Protocol: TCP (6)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.48.90
    Destination Address: 128.119.245.12
```
HTTP GET packet

## Q3. What version of HTTP are your browser and the server running?

A: Version: HTTP/1.1

```
v Hypertext Transfer Protocol
  v GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
    > [Expert Info (Chat/Sequence): GET /wireshark-labs/INTRO-wireshark-file1.ht
      Request Method: GET
      Request URI: /wireshark-labs/INTRO-wireshark-file1.html
      Request Version: HTTP/1.1
    Host: gaia.cs.umass.edu\r\n
    Connection: keep-alive\r\n
    Upgrade-Insecure-Requests: 1\r\n
```
HTTP GET packet

```
v Hypertext Transfer Protocol
  v HTTP/1.1 200 OK\r\n
    v [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
        [HTTP/1.1 200 OK\r\n]
        [Severity level: Chat]
        [Group: Sequence]
      Response Version: HTTP/1.1
      Status Code: 200
      [Status Code Description: OK]
      Response Phrase: OK
    Date: Wed, 19 Oct 2022 02:42:08 GMT\r\n
```
Response packet

## Q4. What languages does your browser indicate that it can accept to the server?

A: zh-TW, zh; q = 0.9, en-US; q = 0.8, en; q = 0.7, zh-CN; q = 0.6

```
✓ Hypertext Transfer Protocol
  ✓ GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
    ✓ [Expert Info (Chat/Sequence): GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n]
        [GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n]
        [Severity level: Chat]
        [Group: Sequence]
    Request Method: GET
    Request URI: /wireshark-labs/INTRO-wireshark-file1.html
    Request Version: HTTP/1.1
  Host: gaia.cs.umass.edu\r\n
  Connection: keep-alive\r\n
  Upgrade-Insecure-Requests: 1\r\n
  User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apn
  Accept-Encoding: gzip, deflate\r\n
  Accept-Language: zh-TW,zh;q=0.9,en-US;q=0.8,en;q=0.7,zh-CN;q=0.6\r\n
  \r\n
  [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
```

_____

## Q5. What is the status code for the first response message?

### A: Status code: 200

```
✓ Hypertext Transfer Protocol
  ✓ GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
    ✓ [Expert Info (Chat/Sequence): GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
        [GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n]
        [Severity level: Chat]
        [Group: Sequence]
    Request Method: GET
    Request URI: /wireshark-labs/INTRO-wireshark-file1.html
    Request Version: HTTP/1.1
  Host: gaia.cs.umass.edu\r\n
  Connection: keep-alive\r\n
  Upgrade-Insecure-Requests: 1\r\n
  User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like G
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,ima
  Accept-Encoding: gzip, deflate\r\n
  Accept-Language: zh-TW,zh;q=0.9,en-US;q=0.8,en;q=0.7,zh-CN;q=0.6\r\n
  \r\n
  [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
  [HTTP request 1/2]
  [Response in frame: 10758]          ← 1st response
  [Next request in frame: 10865]
```

HTTP GET packet

Wireshark · Packet 10758 · Wi-Fi

```
> Frame 10758: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface
> Ethernet II, Src: ee:24:07:18:92:88 (ee:24:07:18:92:88), Dst: IntelCor_8a:2f:6e (38:68:9
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.48.90
> Transmission Control Protocol, Src Port: 80, Dst Port: 6547, Seq: 1, Ack: 507, Len: 438
✓ Hypertext Transfer Protocol
  ✓ HTTP/1.1 200 OK\r\n
    ✓ [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
        [HTTP/1.1 200 OK\r\n]
        [Severity level: Chat]
        [Group: Sequence]
    Response Version: HTTP/1.1
    Status Code: 200          ←
    [Status Code Description: OK]
    Response Phrase: OK
  Date: Wed, 19 Oct 2022 02:42:08 GMT\r\n
```

1st response packet