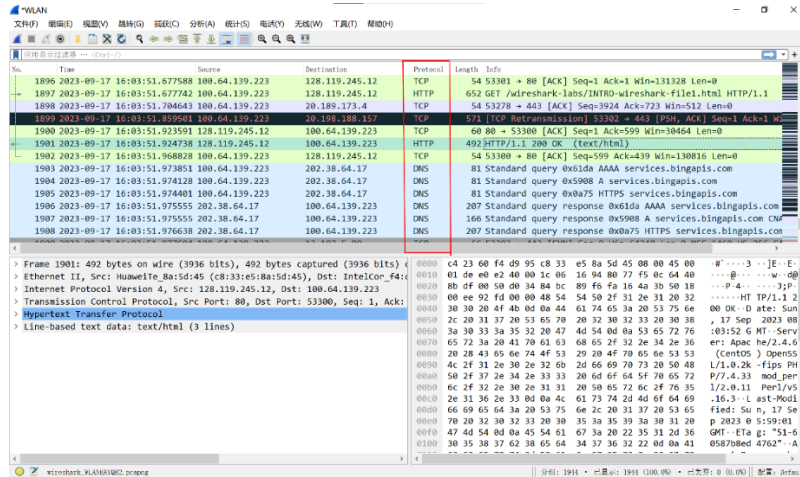


计算机网络实验一

学号：PB21000224 姓名：陈鸿绪 日期：9.17.2023

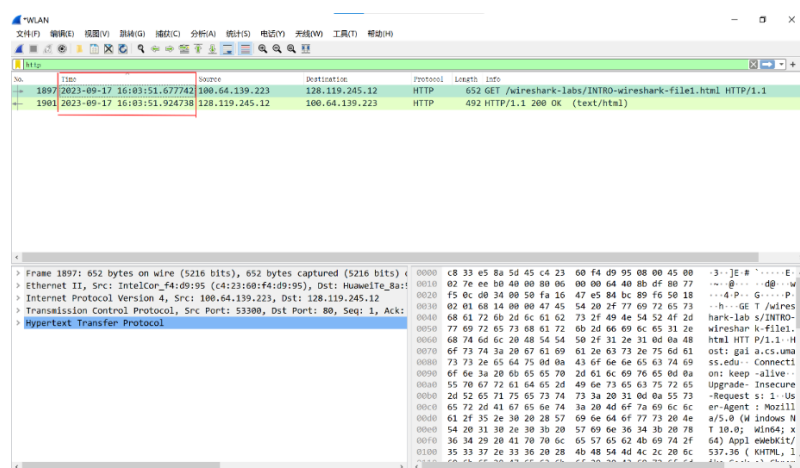
P1 解答：由下图可以观察到 Protocol 有 TCP、HTTP、DNS 等不同种类。



The screenshot shows a Wireshark packet capture on the 'WLAN' interface. The packet list on the left shows several packets. Packet 1901 is highlighted, showing it is an HTTP GET request. The packet details pane on the right shows the structure of the packet, including Ethernet II, Internet Protocol Version 4, Transmission Control Protocol, and Hypertext Transfer Protocol. The packet bytes pane at the bottom shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
1896	2023-09-17 16:03:51.677588	100.64.139.223	128.119.245.12	TCP	54	53300 → 80 [ACK] Seq=1 Win=131328 Len=0
1897	2023-09-17 16:03:51.677742	100.64.139.223	128.119.245.12	HTTP	652	GET /wireshark-labs/INTRO-wireshark-file.html HTTP/1.1
1898	2023-09-17 16:03:51.784643	100.64.139.223	20.189.173.4	TCP	54	53378 → 443 [ACK] Seq=1924 Ack=723 Win=512 Len=0
1901	2023-09-17 16:03:51.924738	100.64.139.223	128.119.245.12	HTTP	492	HTTP/1.1 200 OK (text/html)

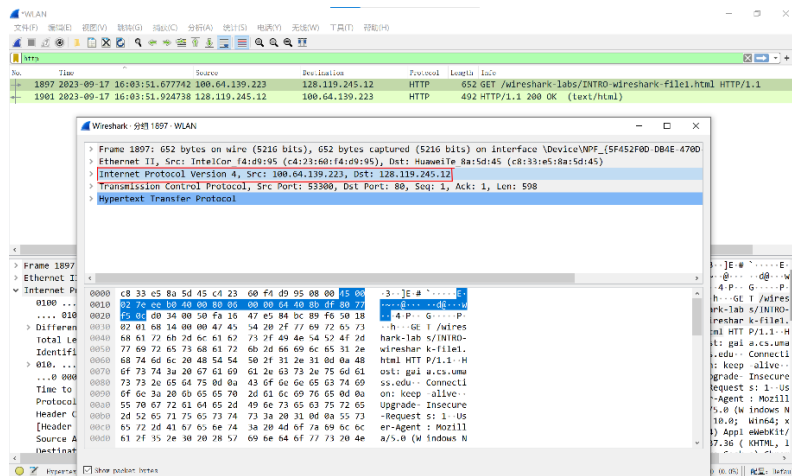
P2 解答：如红框中所示，2023-09-17 16:03:51.677742 为 GET 的时刻，2023-09-17 16:03:51.924738 为 200OK 的时刻。所以两者时间差为 0.246996 秒



The screenshot shows a Wireshark packet capture on the 'WLAN' interface. The packet list on the left shows several packets. Packet 1897 is highlighted, showing it is an HTTP GET request. The packet details pane on the right shows the structure of the packet, including Ethernet II, Internet Protocol Version 4, Transmission Control Protocol, and Hypertext Transfer Protocol. The packet bytes pane at the bottom shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
1897	2023-09-17 16:03:51.677742	100.64.139.223	128.119.245.12	HTTP	652	GET /wireshark-labs/INTRO-wireshark-file.html HTTP/1.1
1901	2023-09-17 16:03:51.924738	128.119.245.12	100.64.139.223	HTTP	492	HTTP/1.1 200 OK (text/html)

P3 解答：本人主机的 IPv4: 100.64.139.223 gaia.cs.umass.edu: 128.119.245.12



The screenshot shows a Wireshark packet capture on the 'WLAN' interface. The packet list on the left shows several packets. Packet 1897 is highlighted, showing it is an HTTP GET request. The packet details pane on the right shows the structure of the packet, including Ethernet II, Internet Protocol Version 4, Transmission Control Protocol, and Hypertext Transfer Protocol. The packet bytes pane at the bottom shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
1897	2023-09-17 16:03:51.677742	100.64.139.223	128.119.245.12	HTTP	652	GET /wireshark-labs/INTRO-wireshark-file.html HTTP/1.1
1901	2023-09-17 16:03:51.924738	128.119.245.12	100.64.139.223	HTTP	492	HTTP/1.1 200 OK (text/html)

P4 解答：根据实验要求打印出的 GET 与 OK 如下图所示：（见附件 hw.pdf）

```
No.      Time                               Source                               Destination                         Protocol Length Info
1897 2023-09-17 16:03:51.677742         100.64.139.223                     128.119.245.12                     HTTP          652      GET /wireshark-labs/INTRO-
wireshark-file1.html HTTP/1.1
Frame 1897: 652 bytes on wire (5216 bits), 652 bytes captured (5216 bits) on interface \Device\NPF_{5F452F0D-DB4E-470D-
A9BA-0C9A5D96B583}, id 0
Ethernet II, Src: IntelCor_f4:d9:95 (c4:23:60:f4:d9:95), Dst: HuaweiTe_8a:5d:45 (c8:33:e5:8a:5d:45)
Internet Protocol Version 4, Src: 100.64.139.223, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 53300, Dst Port: 80, Seq: 1, Ack: 1, Len: 598
Hypertext Transfer Protocol

No.      Time                               Source                               Destination                         Protocol Length Info
1901 2023-09-17 16:03:51.924738         128.119.245.12                     100.64.139.223                     HTTP          492      HTTP/1.1 200 OK (text/
html)
Frame 1901: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface \Device\NPF_{5F452F0D-DB4E-470D-
A9BA-0C9A5D96B583}, id 0
Ethernet II, Src: HuaweiTe_8a:5d:45 (c8:33:e5:8a:5d:45), Dst: IntelCor_f4:d9:95 (c4:23:60:f4:d9:95)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 100.64.139.223
Transmission Control Protocol, Src Port: 80, Dst Port: 53300, Seq: 1, Ack: 598, Len: 438
Hypertext Transfer Protocol
Line-based text data: text/html (3 lines)
<html>\n
Congratulations! You've downloaded the first Wireshark lab file!\n
</html>\n
```