Computer Network Study Lab 1

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Q1:List 3 different protocols that appear in the protocol column in the unfilteredpacket-listing window in step 7 above.

- TCP,TLVS1.2,HTTP,ARP,UDP ......

Q2:How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received?

- 0.261294s

Q3:What is the Internet address of the gaia.cs.umass.edu ? What is the Internet address of your computer?

- my computer: `192.168.110.57`
- gaia.cs.umass.edu: `128.119.245.12`
- You can both use wireshark or the cmd `ping www-net.cs.umass.edu` to get the ip.

```
正在 Ping gaia.cs.umass.edu [128.119.245.12] 具有 32 字节的数据:
来自 128.119.245.12 的回复: 字节=32 时间=290ms TTL=41
来自 128.119.245.12 的回复: 字节=32 时间=339ms TTL=41
来自 128.119.245.12 的回复: 字节=32 时间=348ms TTL=41
```

Q4:Print the two HTTP messages (GET and OK) referred to in question 2 above.

- See the next page.

No.   Time   Source   Destination   Protocol Length Info
   4738 8.394068   192.168.110.57   13.249.126.115   HTTP   523   GET /test.png HTTP/1.1
Frame 4738: 523 bytes on wire (4184 bits), 523 bytes captured (4184 bits) on interface \Device\NPF_{65545352-1BA3-4FB9-BB3C-4A3C9BE2354E}, id 0
Ethernet II, Src: IntelCor_b5:68:3c (c8:58:c0:b5:68:3c), Dst: 92:a7:22:ec:13:b0 (92:a7:22:ec:13:b0)
Internet Protocol Version 4, Src: 192.168.110.57, Dst: 13.249.126.115
Transmission Control Protocol, Src Port: 11893, Dst Port: 80, Seq: 1, Ack: 1, Len: 469
Hypertext Transfer Protocol
No.   Time   Source   Destination   Protocol Length Info
   4742 8.655362   13.249.126.115   192.168.110.57   HTTP   542   HTTP/1.1 200 OK (text/plain)
Frame 4742: 542 bytes on wire (4336 bits), 542 bytes captured (4336 bits) on interface \Device\NPF_{65545352-1BA3-4FB9-BB3C-4A3C9BE2354E}, id 0
Ethernet II, Src: 92:a7:22:ec:13:b0 (92:a7:22:ec:13:b0), Dst: IntelCor_b5:68:3c (c8:58:c0:b5:68:3c)
Internet Protocol Version 4, Src: 13.249.126.115, Dst: 192.168.110.57
Transmission Control Protocol, Src Port: 80, Dst Port: 11893, Seq: 1, Ack: 470, Len: 488
Hypertext Transfer Protocol
Line-based text data: text/plain (1 lines)