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# Homework IV

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WIRESHARK INTR

2021 年 3 月 23 日

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## Question 1

List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.

ARP、DNS、TLSV1.2

## Question 2

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

大约 0.2s

## Question 3

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

网站的地址为 128.119.245.12, 个人电脑的地址为 172.23.246.131

## Question 4

C:\Users\123456\Desktop\Done\_Lists\capture.pcapng 总分组数,10 已显示

No.	Time	Source	Destination	Protocol	Length	Info
50	20:13:43.703619	172.23.246.131	128.119.245.12	HTTP	529	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1

Frame 50: 529 bytes on wire (4232 bits), 529 bytes captured (4232 bits) on interface \Device\NPF\_{542A6723-C912-47BE-AAB0-DF3F407D08C2}, id 0  
Ethernet II, Src: 66:6e:f0:e2:62:6a (66:6e:f0:e2:62:6a), Dst: HuaweiTe\_0d:a6:8e (9c:37:f4:0d:a6:8e)  
Internet Protocol Version 4, Src: 172.23.246.131, Dst: 128.119.245.12  
Transmission Control Protocol, Src Port: 3216, Dst Port: 80, Seq: 1, Ack: 1, Len: 475  
Hypertext Transfer Protocol

No.	Time	Source	Destination	Protocol	Length	Info
54	20:13:43.930841	128.119.245.12	172.23.246.131	HTTP	492	HTTP/1.1 200 OK (text/html)

Frame 54: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface \Device\NPF\_{542A6723-C912-47BE-AAB0-DF3F407D08C2}, id 0  
Ethernet II, Src: HuaweiTe\_0d:a6:8e (9c:37:f4:0d:a6:8e), Dst: 66:6e:f0:e2:62:6a (66:6e:f0:e2:62:6a)  
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172.23.246.131  
Transmission Control Protocol, Src Port: 80, Dst Port: 3216, Seq: 1, Ack: 476, Len: 438  
Hypertext Transfer Protocol  
Line-based text data: text/html (3 lines)

图 1: HTTP-Messages

在几次静态页面的刷新后, 浏览器注意到页面内容并未发生改变, 其网络状态码为 304。得知在对某一个服务器发出连续的 HTTP 请求时, 如果服务器检查资源没有被修改就回复 304 Not Modified, 直接从本地缓存中调出数据, 方便快捷。