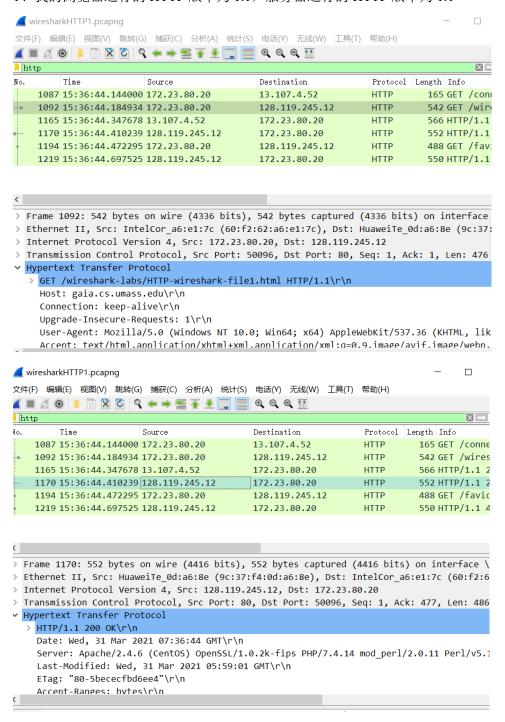
一、基本的 HTTP 获取/响应交互

1、我的浏览器运行的 HTTP 版本为 1.1, 服务器运行的 HTTP 版本为 1.1



2、我的浏览器指示服务器可以接受 zh-CN、zh

Transmission Control Protocol, Src Port: 50096, Dst Port: 80, Seq: 1, Ad Hypertext Transfer Protocol

> GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n

Host: gaia.cs.umass.edu\r\n

Connection: keep-alive\r\n

Upgrade-Insecure-Requests: 1\r\n

User-Agent: Mozilla/5.0 (Wir ows NT 10.0; Win64; x64) AppleWebKit/537

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/a

Accept-Encoding: gzip, del ate\r\n

Accept-Language: zh-CN,zh;q=0.9\r\n
\r\n

3, my computer: 172.23.80.20, gaia.cs.umass.edu: 128.119.245.12

文件(F) 编辑(E) 视图(V) 跳转(G) 捕获(C) 分析(A) 统计(S) 电话(Y) 无线(W) 工具(T) 帮助(H) http Time Source Destination Protocol Length Inf ſo. 1087 15:36:44.144000 172.23.80.20 13,107,4,52 1092 15:36:44.184934 172.23.80.20 128.119.245.12 542 GET 1165 15:36:44.347678 13.107.4.52 172.23.80.20 HTTP 566 HTT 1170 15:36:44.410239 128.119.245.12 172.23.80.20 HTTP 552 HTT 1194 15:36:44.472295 172.23.80.20 128,119,245,12 HTTP 488 GET 1219 15:36:44.697525 128.119.245.12 172.23.80.20 **HTTP** 550 HTT

4, status code: 200 OK

wiresharkHTTP1.pcapng

1170 15:36:44.410239 128.119.245.12 172.23.80.20 HTTP 552 HTTP/1.1 200 OK (text/html)

5 Last-Modified: Wed, 31 Mar 2021 07:36:44 GMT

- > Frame 1170: 552 bytes on wire (4416 bits), 552 bytes captur
- > Ethernet II, Src: HuaweiTe_0d:a6:8e (9c:37:f4:0d:a6:8e), Ds
- > Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172
- > Transmission Control Protocol, Src Port: 80, Dst Port: 5009
- Hypertext Transfer Protocol
 - > HTTP/1.1 200 OK\r\n

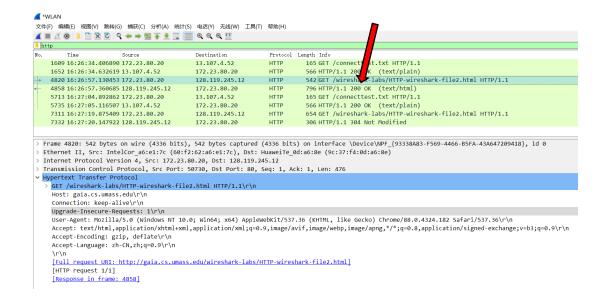
Date: Wed, 31 Mar 2021 07:36:4 GMT\r\n

Server: Apache/2.4.6 (CentOS) penSSL/1.0.2k-fips PHP/7.

Last-Modified: Wed, 31 Mar 2021 05:59:01 GMT\r\n

ETag: "80-5bececfbd6ee4"\r\n
Accept-Ranges: bytes\r\n

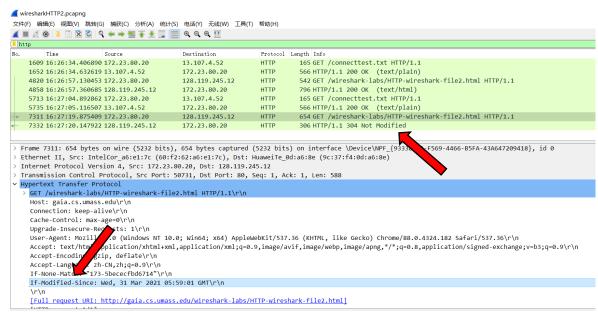
- 6, 128bytes
- 7、Host
- 二、HTTP条件获取/响应交互
- 8、没有
- 9、是, 因为返回的 status code 为 200



10、是

11, status code and phrase: 304 Not Modified

服务器没有显式返回文件的内容



三、长文档检索

12、只发送了一个 HTTP GET 请求信息,其中 637 号 HTTP GET 请求数据包包含对于美国权利法案的请求

(A lattp								
No.	Time	Source	Destination	Protocol	Length Info			
	637 16:45:08.406287	172.23.80.20	128.119.245.12	HTTP	542 GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1			
4-	666 16:45:08.629580	128.119.245.12	172.23.80.20	HTTP	619 HTTP/1.1 200 OK (text/html)			

13、

663 号数据包包含有 HTTP GET 请求的响应的状态码和描述短语

14、响应中的状态码和描述短语分别是 200 和 OK

	5:08.029580 1/2.23.140.88	1/2.23.200.200	DILS	393 CONCINUACION DATA
	62 16:45:08.629580 128.119.245.12	172.23.80.20	TCP	66 80 → 50904 [ACK] Seq=1 Ack=477 Win=30080 Len=0 TSval=184018648 TSecr=994568
	663 16:45:08.629580 128.119.245.12	172.23.80.20	TCP	1502 80 → 50904 [ACK] Seq=1 Ack=477 Win=30080 Len=1436 TSval=184018650 TSecr=994
	664 16:45:08.629580 128.119.245.12	172.23.80.20	TCP	1502 [TCP Previous segment not captured] 80 → 50904 [ACK] Seq=2873 Ack=477 Win=3
	665 16:45:08.629580 128.119.245.12		TCP	1502 [TCP Out-Of-Order] 80 → 50904 [ACK] Seq=1437 Ack=477 Win=30080 Len=1436 TSV
4	666 16:45:08.629580 128.119.245.12	172.23.80.20	HTTP	619 HTTP/1.1 200 OK (text/html)

15、需要 4 个包含数据的 TCP 段来传输单个 HTTP 响应和权利法案文本

