实验一实验报告

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一、 第一问

1. 可以看到下图中有三种 protocols 分别是 ARP、TCP、DHCP

6628 336.284506	10.223.154.143	172.217.160.109	TCP	74 65342 → 4
6629 336.297600	HuaweiTe_1b:b3:1d	Broadcast	ARP	66 Who has 1
6630 336.392188	HuaweiTe_1b:b3:1d	Broadcast	ARP	66 Who has 1
6631 336.392188	HuaweiTe_1b:b3:1d	Broadcast	ARP	66 Who has 1
6632 336.527251	10.223.154.143	172.217.160.109	TCP	74 65343 → 4
6633 336.597665	10.223.128.1	255.255.255.255	DHCP	342 DHCP NAK
6634 336.597665	HuaweiTe_1b:b3:1d	Broadcast	ARP	66 Who has 1
6635 336.597665	HuaweiTe_1b:b3:1d	Broadcast	ARP	66 Who has 1
CC3C 33C C00C10	11	D J L	400	coult- be- a

2. 两次相差的时间是 10.737505-10.382830=0.354675s

100 10000011	10.11.11.11	100,110,11		00 0000.
154 10.382830	10.223.154.143	128.119.245.12	HTTP	565 GET /v
160 10.737132	128.119.245.12	10.223.154.143	TCP	66 80 → 6
161 10.737505	128.119.245.12	10.223.154.143	HTTP	504 HTTP/:

- 3. 我电脑的 ip 是 10.233.154.143 对方 ip 是 128.119.245.12
- 4. 打印信息

```
No.
        Time
                          Source
                                                    Destination
                                                                             Protocol Length Info
    914 51.798159
                          10.223.154.143
                                                                                              GET /wireshark-labs/INTRO-wireshark-
                                                   128.119.245.12
                                                                             HTTP
                                                                                      565
file1.html HTTP/1.1
Frame 914: 565 bytes on wire (4520 bits), 565 bytes captured (4520 bits) on interface \Device\NPF_{0136C1D0-4AF7-44D9-
B493-CEF01AB4D3A8), id 0
Ethernet II, Src: IntelCor_25:e3:ba (28:16:ad:25:e3:ba), Dst: HuaweiTe_1b:b3:1d (40:ee:dd:1b:b3:1d)
Internet Protocol Version 4, Src: 10.223.154.143, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 64004, Dst Port: 80, Seq: 1, Ack: 1, Len: 499
Hypertext Transfer Protocol
        Time
                          Source
                                                   Destination
                                                                             Protocol Length Info
    923 52.051623
                          128.119.245.12
                                                   10.223.154.143
                                                                             HTTP
                                                                                              HTTP/1.1 200 OK (text/html)
Frame 923: 504 bytes on wire (4032 bits), 504 bytes captured (4032 bits) on interface \Device\NPF_{0136C1D0-4AF7-44D9-B493-CEF01AB4D3A8}, id 0
Ethernet II, Src: HuaweiTe_1b:b3:1d (40:ee:dd:1b:b3:1d), Dst: IntelCor_25:e3:ba (28:16:ad:25:e3:ba)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.223.154.143
Transmission Control Protocol, Src Port: 80, Dst Port: 64004, Seq: 1, Ack: 500, Len: 438
Hypertext Transfer Protocol
Line-based text data: text/html (3 lines)
```

二、 第二问

```
GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
Host: gaia.cs.umass.edu
Connection: keep-alive
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/102.0.0.0 Safari/537.36
Accept: text/html, application/xhtml+xml, application/xml;q=0.9, image/avif, image/webp, image/apng, */*;q=0.8, application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN, zh;q=0.9
HTTP/1.1 200 0K
Date: Mon, 19 Sep 2022 03:53:39 GMT
Server: Apache/2.4.6 (CentoS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod_per1/2.0.11 Per1/v5.16.3
Last-Modified: Sun, 18 Sep 2022 05:59:02 GMT
ETag: '51-5e8ed4abab430'
Accept-Ranges: bytes
Content-Length: 81
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html: charset=UTF-8

<hr/>
<html>
Congratulations! You've downloaded the first Wireshark lab file!
</hr>
</hr>
```

三、 第三问

```
C:\Users\Administrator>tracert www.baidu.com
通过最多 30 个跃点跟踪
到 www.a. shifen.com [182.61.200.6] 的路由:
                                                    请求招时。
            *
                           *
                                          *
   1
   2
                                                    10.250.1.210
                          14 ms
                                        24 ms
           14 ms
   3
                                                    10. 250. 1. 214
             6 ms
                          11 ms
                                        47
                                            ms
                           2
   4
                                          3
             9
                                                    10. 255. 19. 1
                ms
                              ms
                                             ms
   5
             2
                                          3
                                                    10. 255. 249. 45
                           6
                                             ms
                ms
                             ms
   6
                          18 ms
                                        23
                                                    10. 255. 38. 250
           14
                                             ms
                ms
   7
            *
                        128 ms
                                          6
                                                    202, 112, 27, 1
                                             ms
   8
                           6 ms
                                        19
                                                    101. 4. 115. 105
           23 ms
                                             ms
   9
           24 ms
                          22 ms
                                        26 ms
                                                    101. 4. 117. 30
  10
                                       145 ms
                                                    101. 4. 116. 118
            *
                          27 ms
                                                    101. 4. 112. 69
 11
           42 ms
                          52 ms
                                        56 ms
 12
                          32 ms
                                        29
                                                    219, 224, 103, 38
           32 ms
                                             ms
 13
           41 ms
                          33 ms
                                        37
                                                    101. 4. 130. 34
                                             ms
                                        28
                                                    182.61.255.38
 14
           37
                          30 ms
                ms
                                             ms
 15
           32
                          36 ms
                                        33
                                                    182. 61. 255. 55
                ms
                                             ms
 16
                                                    请求超时。
             *
                           *
                                          *
                                                    请求超时。
 17
             *
                           *
                                          *
                                                    请求超时。
 18
             *
                           *
                                          *
                                                    请求超时。
 19
             *
                           *
                                          *
 20
           45 ms
                          29 ms
                                        33 ms
                                                    182. 61. 200. 6
跟踪完成
    56 3.452989
                10.223.154.143
                                                  182.61.200.6
                                                                 ICMP
                                                                        106 Echo (pir
    109 7.272285
                10.223.154.143
                                                  182.61.200.6
                                                                 TCMP
                                                                        106 Echo (pir
    219 11.272136
                10.223.154.143
                                                  182.61.200.6
                                                                 ICMP
                                                                        106 Echo (pir
                                                                 ICMP
    273 15.277673
                10.223.154.143
                                                  182.61.200.6
                                                                        106 Echo (pir
    274 15.291836
                10.250.1.210
                                                  10.223.154.143
                                                                 ICMP
                                                                         70 Time-to-
                                                                        106 Echo (pir
    275 15.292829
                10.223.154.143
                                                  182.61.200.6
                                                                 ICMF
   276 15.307383
                10.250.1.210
                                                  10.223.154.143
                                                                 ICMP
                                                                         70 Time-to-
    277 15.308475
                10.223.154.143
                                                  182,61,200,6
                                                                 TCMP
                                                                        106 Echo (pir
    278 15.332438
                10.250.1.210
                                                  10.223.154.143
                                                                         70 Time-to-
    287 15.493813
                10.250.1.210
                                                  10.223.154.143
                                                                 ICMP
                                                                         70 Destinat
    349 18.457817
                10.250.1.210
                                                  10.223.154.143
                                                                 ICMP
                                                                         70 Destinat
    390 21.470857
                10.250.1.210
                                                  10.223.154.143
                                                                 ICMP
                                                                         70 Destinat
    504 25.461014
                10.223.154.143
                                                  182.61.200.6
                                                                 ICMP
                                                                        106 Echo (pir
                10.250.1.214
                                                  10.223.154.143
    505 25.467716
                                                                 ICMP
                                                                         70 Time-to-
    506 25.468551
                10.223.154.143
                                                  182.61.200.6
                                                                 TCMP
                                                                        106 Echo (pir
```

10.223.154.143

182.61.200.6

ICMP

70 Time-to-

106 Echo (pir

512 25.479443

10.250.1.214

10.223.154.143

				VI
519 25.527835	10.250.1.214	10.223.154.143	ICMP	70 Time-to-
525 25.543579	10.250.1.214	10.223.154.143	ICMP	70 Destinat
632 28.550908	10.250.1.214	10.223.154.143	ICMP	70 Destinat
679 31.554352	10.250.1.214	10.223.154.143	ICMP	70 Destinat
724 35.525059	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
726 35.534709	10.255.19.1	10.223.154.143	ICMP	110 Time-to-
727 35.536406	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
728 35.538429	10.255.19.1	10.223.154.143	ICMP	110 Time-to-
729 35.539810	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
730 35.542958	10.255.19.1	10.223.154.143	ICMP	110 Time-to-
734 35.582331	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
784 38.574245	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
822 41.588826	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
885 45.598391	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
886 45.600691	10.255.249.45	10.223.154.143	TCMP	110 Time-to-
886 45.600691	10.255.249.45	10.223.154.143	ICMP	110 Time-to-
887 45.601670	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
888 45.608282	10.255.249.45	10.223.154.143	ICMP	110 Time-to-
889 45.609192	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
890 45.612153	10.255.249.45	10.223.154.143	ICMP	110 Time-to-
894 45.638419	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
938 48.641394	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
985 51.641612	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
1045 55.659772	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
1046 55.673724	10.255.38.250	10.223.154.143	ICMP	70 Time-to-
1047 55.675067	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
1048 55.693065	10.255.38.250	10.223.154.143	ICMP	70 Time-to-
1049 55.694240	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
1051 55.717106	10.255.38.250	10.223.154.143	ICMP	70 Time-to-
1056 55.892309	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
1106 58.772265	10.250.1.210	10.223.154.143	ICMP	70 Time-to-
1176 61.782426	10.250.1.210	10.223.154.143	ICMP	70 Time-to-l
1247 65.768624	10.223.154.143	182.61.200.6	ICMP	106 Echo (pir
1326 69.776291	10.223.154.143	182.61.200.6	ICMP	106 Echo (pir
1328 69.904671	202.112.27.1	10.223.154.143	ICMP	70 Time-to-l
1329 69.905842	10.223.154.143	182.61.200.6	ICMP	106 Echo (pir
1330 69.911752	202.112.27.1	10.223.154.143	ICMP	70 Time-to-l
1685 88.080503	10.223.154.143	182.61.200.6	ICMP	106 Echo (pir
1686 88.103517	101.4.115.105	10.223.154.143	ICMP	70 Time-to-l
1687 88.106052	10.223.154.143	182.61.200.6	ICMP	106 Echo (pir
1688 88.112028	101.4.115.105	10.223.154.143	ICMP	70 Time-to-l
1689 88.114628	10.223.154.143	182.61.200.6	ICMP	106 Echo (pir
1690 88.133865	101.4.115.105	10.223.154.143	ICMP	70 Time-to-l
1694 88.181547	101.4.115.105	10.223.154.143	ICMP	70 Destinati
1754 91.190955	101.4.115.105	10.223.154.143	ICMP	70 Destinati
1804 94.207577	101.4.115.105	10.223.154.143	ICMP	70 Destinati
1689 88.114628	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
1690 88.133865	101.4.115.105	10.223.154.143	ICMP	70 Time-to-
1694 88.181547	101.4.115.105	10.223.154.143	ICMP	70 Destinat
1754 91.190955	101.4.115.105	10.223.154.143	ICMP	70 Destinat
1804 94.207577	101.4.115.105	10.223.154.143	ICMP	70 Destinat
1865 98.185967	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
1872 98.210184	101.4.117.30	10.223.154.143	ICMP	70 Time-to-
1873 98.211259	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
1874 98.233276	101.4.117.30	10.223.154.143	ICMP	70 Time-to-
1875 98.235127	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
1876 98.261058	101.4.117.30	10.223.154.143	ICMP	70 Time-to-
1880 98.315345	101.4.117.30	10.223.154.143	ICMP	70 Destinat
1925 101.309794	101.4.117.30	10.223.154.143	ICMP	70 Destinat
1976 104.308402	101.4.117.30	10.223.154.143	ICMP	70 Destinat
2030 108.292175	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2075 112.282791	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2076 112,310326	101.4.116.118	10.223.154.143	TCMP	70 Time-to-

2077 112.311594	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2078 112.457281	101.4.116.118	10.223.154.143	ICMP	70 Time-to-
2086 112.647799	101.4.116.118	10.223.154.143	ICMP	70 Destinat
2122 115.529373	101.4.116.118	10.223.154.143	ICMP	70 Destinat
2166 118.546922	101.4.116.118	10.223.154.143	ICMP	70 Destinat
2223 122.389937	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2224 122.432337	101.4.112.69	10.223.154.143	ICMP	70 Time-to-
2225 122.433488	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi

2227 122.485443	101.4.112.69	10.223.154.143	ICMP	70 Time-to-
2228 122.486572	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2229 122.542863	101.4.112.69	10.223.154.143	ICMP	70 Time-to-
2235 122.638549	101.4.112.69	10.223.154.143	ICMP	70 Destinat
2275 125.626936	101.4.112.69	10.223.154.143	ICMP	70 Destinat
2327 128.632535	101.4.112.69	10.223.154.143	ICMP	70 Destinat
2375 132 555187	10 223 154 143	182 61 200 6	TCMP	106 Echo (ni
2375 132.555187	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2376 132.587739	219.224.103.38	10.223.154.143	ICMP	70 Time-to-
2377 132.588925	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2380 132.620802	219.224.103.38	10.223.154.143	ICMP	70 Time-to-
2381 132.621982	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2382 132.651598		10.223.154.143		
	219.224.103.38		ICMP	70 Time-to-
2510 142.660707	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2511 142.702138	101.4.130.34	10.223.154.143	ICMP	70 Time-to-
2512 142.703771	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2513 142.737385	101.4.130.34	10.223.154.143	ICMP	70 Time-to-
2514 142.738577	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2517 142.775880	101.4.130.34	10.223.154.143	ICMP	70 Time-to-
2607 153.038539	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi

2608 153.076196	182.61.255.38	10.223.154.143	ICMP	70 Time-to-
2609 153.077761	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2612 153.108092	182.61.255.38	10.223.154.143	ICMP	70 Time-to-
2012 133,100032	1021011233130	101223113111	10111	70 111110 00 .
2614 153.138021	182.61.255.38	10.223.154.143	ICMP	70 Time-to-
2686 163.204817	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2686 163.204817 2687 163.237175	10.223.154.143 182.61.255.55	182.61.200.6 10.223.154.143	ICMP ICMP	106 Echo (pi 70 Time-to-
2686 163.204817	10.223.154.143	182.61.200.6	ICMP	106 Echo (pi
2686 163.204817 2687 163.237175	10.223.154.143 182.61.255.55	182.61.200.6 10.223.154.143	ICMP ICMP	106 Echo (pi 70 Time-to- 106 Echo (pi
2686 163.204817 2687 163.237175 2688 163.238502 2689 163.274424	10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55	182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143	ICMP ICMP ICMP	106 Echo (pi 70 Time-to- 106 Echo (pi 70 Time-to-
2686 163.204817 2687 163.237175 2688 163.238502 2689 163.274424 2690 163.275507	10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143	182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6	ICMP ICMP ICMP ICMP	106 Echo (pi 70 Time-to- 106 Echo (pi 70 Time-to- 106 Echo (pi
2686 163.204817 2687 163.237175 2688 163.238502 2689 163.274424 2690 163.275507 2691 163.308309	10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55	182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143	ICMP ICMP ICMP ICMP ICMP ICMP	106 Echo (pi 70 Time-to- 106 Echo (pi 70 Time-to- 106 Echo (pi 70 Time-to-
2686 163.204817 2687 163.237175 2688 163.238502 2689 163.274424 2690 163.275507	10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143	182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6	ICMP ICMP ICMP ICMP	106 Echo (pi 70 Time-to- 106 Echo (pi 70 Time-to- 106 Echo (pi
2686 163.204817 2687 163.237175 2688 163.238502 2689 163.274424 2690 163.275507 2691 163.308309	10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55	182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143	ICMP ICMP ICMP ICMP ICMP ICMP	106 Echo (pi 70 Time-to- 106 Echo (pi 70 Time-to- 106 Echo (pi 70 Time-to-
2686 163.204817 2687 163.237175 2688 163.238502 2689 163.274424 2690 163.275507 2691 163.308309 2831 173.354179 2881 177.277287	10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143 10.223.154.143	182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6 182.61.200.6	ICMP ICMP ICMP ICMP ICMP ICMP ICMP ICMP	106 Echo (pin 70 Time-to- 106 Echo (pin 70 Time-to- 106 Echo (pin 70 Time-to- 106 Echo (pin 106 Echo (pin 106 Echo (pin
2686 163.204817 2687 163.237175 2688 163.238502 2689 163.274424 2690 163.275507 2691 163.308309 2831 173.354179 2881 177.277287 2934 181.278445	10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143 182.61.255.55 10.223.154.143 10.223.154.143 10.223.154.143	182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6 10.223.154.143 182.61.200.6 182.61.200.6	ICMP ICMP ICMP ICMP ICMP ICMP ICMP ICMP	106 Echo (pin 70 Time-to- 106 Echo (pin 70 Time-to- 106 Echo (pin 70 Time-to- 106 Echo (pin 106 Echo (pin 106 Echo (pin 106 Echo (pin
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Traceroute 的工作原理:基本的原理是 IP 路由过程中对 UDP 数据包 TTL (Time to Live,存活时间)的处理。当路由器收到一个 IP 包时,会减小 IP 包的 TTL。每收到一个包,检查这个 的 TTL 是否是 0 或 1。假设是,表明这个包还没有到达目的地,并且剩余时间不多了,肯定是到不了目的地了。这样路由器就简单地丢弃这个包,并给源主机发送 ICMP 通知,说这个包已经超时了。ICMP 的通知信息

里包括当前路由器发送时所用的 IP。那么主机一开始发送一个 TTL=1 的包,这样第一个包就会发现超时,由此得到第一个包的 IP,再发送一个 TTL=2 的包以此类推得知道数据包可以传送到目标主机。这样所有从源主机到目标主机所经过的路由都会被检测到。