Lab₀

1.我的 IP 地址

```
      无线局域网适配器 WLAN:

      连接特定的 DNS 后缀
      : bbrouter

      IPv6 地址
      : 2409:8a5c:1018:9b10:f9f1:125f:acc3:695d

      临时 IPv6 地址
      : 2409:8a5c:1018:9b10:ad1a:ef7a:3c0c:234d

      本地链接 IPv6 地址
      : fe80::f9f1:125f:acc3:695d%3

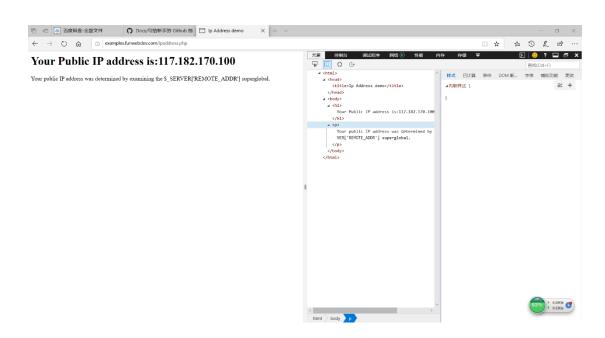
      IPv4 地址
      : 192.168.1.6

      子网掩码
      : 255, 255, 255, 255.0

      默认网关
      : fe80::1%3

      192.168.1.1
```

2.分析一个网页的组成部分(Microsoft Edge)



3. 1) baidu.com 的 A 地址记录

```
PS C:\Users\86159> nslookup baidu.com
服务器: YHTC_GW.bbrouter
Address: 192.168.1.1
非权威应答:
名称: baidu.com.bbrouter
Address: 218.204.57.254
```

2) baidu.com 的域名服务器

```
PS C:\Users\86159> nslookup -qt=ns baidu.com
服务器: YHTC_GW.bbrouter
Address: 192.168.1.1

非权威应答:
baidu.com nameserver = ns4.baidu.com
baidu.com nameserver = ns7.baidu.com
baidu.com nameserver = ns2.baidu.com
baidu.com nameserver = ns3.baidu.com
baidu.com nameserver = ns3.baidu.com
```

3) 使用授权服务器查询 baidu.com 的 IP 地址

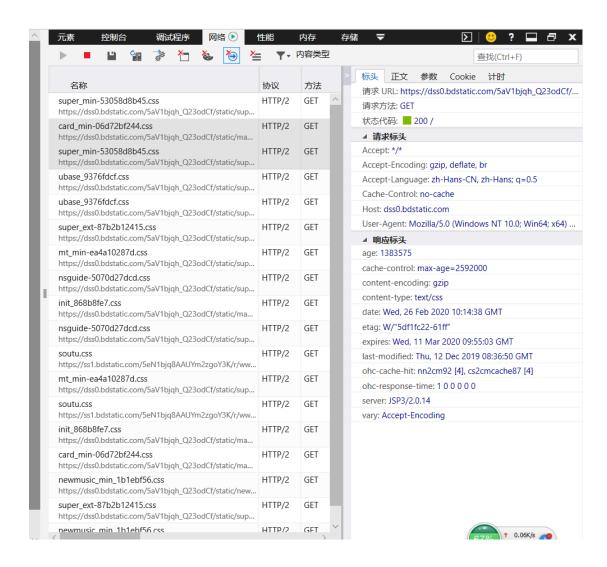
4) 查询 114.114.114 匹配的主机名

服务器: nsc0.gxnnptt.net.cn Address: 202.103.224.68

名称: public1.114dns.com Address: 114.114.114.114

PS C.\IIcarc\86150\

4.观察 HTTP 的标头



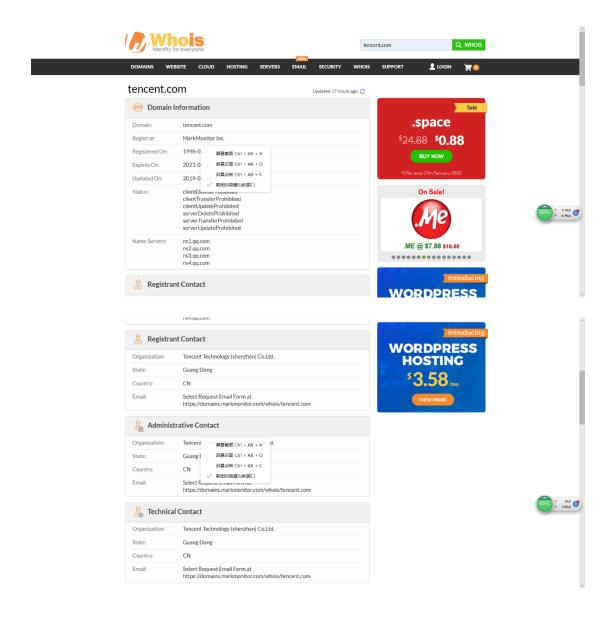
5.追踪数据包

1) 跟踪一个从我的计算机发往 microsoft.com 的数据包

(抱歉,多次尝试但是还是存在超时现象,以下是超时最少的情况)

```
PS C:\Users\86159> tracert microsoft.com
通过最多 30 个跃点跟踪
到 microsoft.com [40.76.4.15] 的路由:
                                                                                                        1 ms YHTC_GW.bbrouter [192.168.1.1]
10 ms 10.88.0.1
7 ms 221.180.70.121
7 ms 218.204.2.57
7 ms 218.204.2.10
8 ms 221.183.19.89
17 ms 221.183.11.33
17 ms 221.176.24.158
53 ms 221.176.24.58
58 ms 221.183.20.146
57 ms 223.118.2.202
89 ms 223.119.0.174
21 ms ae26-0.icr01.hkg31.ntwk.msn.nere
                                                                     1 ms
                                                                    3 ms
9 ms
9 ms
7 ms
7 ms
                                                                                                  10 ms
7 ms
7 ms
7 ms
8 ms
17 ms
17 ms
53 ms
57 ms
89 ms
321 ms
                           3 ms
14 ms
11 ms
   2
3
4
5
6
7
8
9
                                8 ms
                                9 ms
                           17 ms
24 ms
                                                                 20 ms
18 ms
                            50 ms
                           75 ms
56 ms
87 ms
                                                             62 ms
83 ms
212 ms
609 ms
   11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
                                                                                                                                223. 119. 0. 174
ae26-0. icr01. hkg31. ntwk. msn. net [104. 44. 237. 197]
be-120-0. ibr02. hkg31. ntwk. msn. net [104. 44. 11. 141]
be-10-0. ibr02. tyo79. ntwk. msn. net [104. 44. 17. 192]
be-6-0. ibr02. tyo30. ntwk. msn. net [104. 44. 17. 183]
be-9-0. ibr02. lax30. ntwk. msn. net [104. 44. 18. 43]
be-8-0. ibr02. snl. ntwk. msn. net [104. 44. 17. 74]
be-3-0. ibr02. snl. ntwk. msn. net [104. 44. 17. 232]
be-2-0. ibr04. bl20. ntwk. msn. net [104. 44. 19. 114]
be-6-0. icr01. bl20. ntwk. msn. net [104. 44. 19. 153]
ae160-0. icr01. bl20. ntwk. msn. net [104. 44. 22. 210]
请求超时。
请求超时。
请求超时。
请求超时。
请求超时。
请求超时。
请求超时。
                       144 ms
513 ms
324 ms
363 ms
                                                                                                   406 ms
                                                              404 ms
                                                                                                  324 ms
302 ms
                        391 ms
                        350 ms
                                                             303 ms
                        368 ms
                                                             303 ms
                        333 ms
341 ms
                                                             404 ms
303 ms
                                                                                                  405 ms
                                                                                                  301 ms
                                                                                                   303 ms
                                                             381 ms
跟踪完成。
```

2) 利用 whois 查询 tencent.com 的相关信息



Raw Whois Data

```
Domain Name: tencent.com
Registry Domain ID: 3216596 DOMAIN COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2019-08-12T02:11:43-0700
Creation Date: 1998-09-13T21:00:00-0700
Registrar Registration Expiration Date: 2021-09-12T00:00:00-0700
Registrar: MarkMonitor, Inc.
Registrar IANA ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2083895770
Domain Status: clientUpdateProhibited (https://www.icann.org/epp#clientUpdateProhib
Domain Status: clientTransferProhibited (https://www.icann.org/epp#clientTransferPr
Domain Status: clientDeleteProhibited (https://www.icann.org/epp#clientDeleteProhib Domain Status: serverUpdateProhibited (https://www.icann.org/epp#serverUpdateProhib
Domain Status: serverTransferProhibited (https://www.icann.org/epp#serverTransferPr
Domain Status: serverDeleteProhibited (https://www.icann.org/epp#serverDeleteProhib
Registrant Organization: Tencent Technology (shenzhen) Co.Ltd.
Registrant State/Province: Guang Dong
Registrant Country: CN
Registrant Email: Select Request Email Form at https://domains.markmonitor.com/whoi
Admin Organization: Tencent Technology (shenzhen) Co.Ltd.
Admin State/Province: Guang Dong
Admin Country: CN
Admin Email: Select Request Email Form at https://domains.markmonitor.com/whois/ten
Tech Organization: Tencent Technology (shenzhen) Co.Ltd.
Tech State/Province: Guang Dong
Tech Country: CN
Tech Email: Select Request Email Form at https://domains.markmonitor.com/whois/tenc
Name Server: ns3.qq.com
Name Server: ns4.qq.com
Name Server: ns1.qq.com
Name Server: ns2.qq.com
DNSSEC: unsigned
URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/
>>> Last update of WHOIS database: 2020-02-26T05:04:52-0800 <<<
For more information on WHOIS status codes, please visit:
  https://www.icann.org/resources/pages/epp-status-codes
If you wish to contact this domain's Registrant, Administrative, or Technical
contact, and such email address is not visible above, you may do so via our web
```

If you wish to contact this domain's Registrant, Administrative, or Technical contact, and such email address is not visible above, you may do so via our web form, pursuant to ICANN's Temporary Specification. To verify that you are not a robot, please enter your email address to receive a link to a page that facilitates email communication with the relevant contact(s).

Web-based WHOIS:

https://domains.markmonitor.com/whois

If you have a legitimate interest in viewing the non-public WHOIS details, send your request and the reasons for your request to **whoisrequest**@markmonitor.com and specify the domain name in the subject line. We will review that request and may ask for supporting documentation and explanation.

The data in MarkMonitor's WHOIS database is provided for information purposes, and to assist persons in obtaining information about or related to a domain name's registration record. While MarkMonitor believes the data to be accurate, the data is provided "as is" with no guarantee or warranties regarding its accuracy.

By submitting a WHOIS query, you agree that you will use this data only for lawful purposes and that, under no circumstances will you use this data to:

- (1) allow, enable, or otherwise support the transmission by email, telephone, or facsimile of mass, unsolicited, commercial advertising, or spam; or
- (2) enable high volume, automated, or electronic processes that send queries, data, or email to MarkMonitor (or its systems) or the domain name contacts (or its systems).

MarkMonitor.com reserves the right to modify these terms at any time.

By submitting this query, you agree to abide by this policy.

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