Web Lab0

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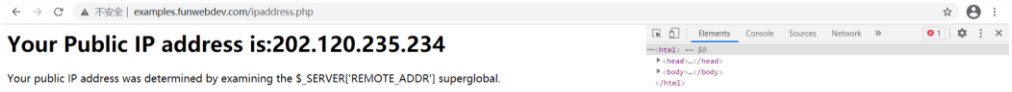
一、IP Address

```
以太网适配器 VMware Network Adapter VMnet1:

   连接特定的 DNS 后缀 . . . . . . . :
   本地链接 IPv6 地址. . . . . . . . : fe80::e035:8c59:c150:c0fa%21
   IPv4 地址 . . . . . . . . . . . . : 192.168.75.1
   子网掩码 . . . . . . . . . . . . : 255.255.255.0
   默认网关. . . . . . . . . . . . . :

以太网适配器 VMware Network Adapter VMnet8:

   连接特定的 DNS 后缀 . . . . . . . :
   本地链接 IPv6 地址. . . . . . . . : fe80::119:7f6d:d9e1:788f%20
   IPv4 地址 . . . . . . . . . . . . : 192.168.219.1
   子网掩码 . . . . . . . . . . . . : 255.255.255.0
   默认网关. . . . . . . . . . . . . :

无线局域网适配器 WLAN:

   连接特定的 DNS 后缀 . . . . . . . : fudan.edu.cn
   本地链接 IPv6 地址. . . . . . . . : fe80::813a:75d0:1677:6291%15
   IPv4 地址 . . . . . . . . . . . . : 10.222.199.250
   子网掩码 . . . . . . . . . . . . : 255.255.128.0
   默认网关. . . . . . . . . . . . . : 10.222.128.1
```

二、分析网页的组成部分



三、域名服务器

1、 使用 nslookup 查询 baidu.com 的 A 地址记录截图

```
PS C:\Users\liaoy> nslookup baidu.com
服务器:  ns.fudan.edu.cn
Address:  202.120.224.26

非权威应答:
名称:    baidu.com
Addresses:  39.156.69.79
          220.181.38.148

PS C:\Users\liaoy> nslookup -qt=A baidu.com
服务器:  ns.fudan.edu.cn
Address:  202.120.224.26

非权威应答:
名称:    baidu.com
Addresses:  39.156.69.79
          220.181.38.148
```

2、 使用 nslookup 查询 baidu.com 的域名服务器截图

```
PS C:\Users\liaoy> nslookup -qt=ns baidu.com
服务器:  ns-cx1.online.sh.cn
Address:  116.228.111.18

DNS request timed out.
    timeout was 2 seconds.
非权威应答:
baidu.com       nameserver = ns2.baidu.com
baidu.com       nameserver = ns7.baidu.com
baidu.com       nameserver = ns4.baidu.com
baidu.com       nameserver = ns3.baidu.com
baidu.com       nameserver = dns.baidu.com
```

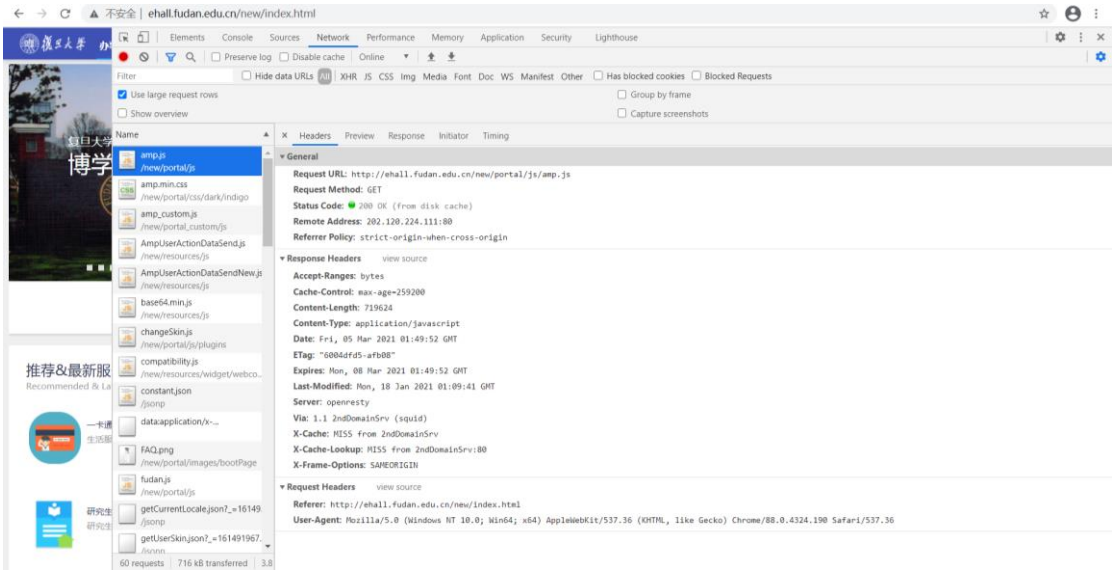
3、 使用授权服务器查询 baidu.com 的 IP 地址截图

```
PS C:\Users\liaoy> nslookup baidu.com ns2.baidu.com
服务器:  UnKnown
Address:  220.181.33.31

名称:    baidu.com
Addresses:  220.181.38.148
          39.156.69.79

PS C:\Users\liaoy> nslookup baidu.com ns7.baidu.com
服务器:  UnKnown
Address:  180.76.76.92

名称:    baidu.com
Addresses:  220.181.38.148
          39.156.69.79

PS C:\Users\liaoy> nslookup baidu.com ns4.baidu.com
服务器:  UnKnown
Address:  14.215.178.80

名称:    baidu.com
Addresses:  220.181.38.148
          39.156.69.79

PS C:\Users\liaoy> nslookup baidu.com ns3.baidu.com
服务器:  UnKnown
Address:  112.80.248.64

名称:    baidu.com
Addresses:  39.156.69.79
          220.181.38.148

PS C:\Users\liaoy> nslookup baidu.com dns.baidu.com
服务器:  UnKnown
Address:  110.242.68.134

名称:    baidu.com
Addresses:  220.181.38.148
          39.156.69.79
```

4、 查询 114.114.114.114 匹配的主机名的截图

```
PS C:\Users\liaoy> nslookup 114.114.114.114
服务器:  ns-cx1.online.sh.cn
Address:  116.228.111.18

名称:    public1.114dns.com
Address:  114.114.114.114
```

四、观察 HTTP 标头



五、追踪数据包

1、跟踪一个从计算机发往 microsoft.com 的数据包

```
PS C:\Users\liaoy> tracert microsoft.com

通过最多 30 个跃点跟踪
到 microsoft.com [40.113.200.201] 的路由:

  1    26 ms    15 ms    14 ms  10.223.128.1
  2    11 ms    10 ms     9 ms  10.250.1.210
  3     *        *        *     请求超时。
  4    11 ms    21 ms    10 ms  10.255.19.1
  5    13 ms    13 ms    11 ms  10.255.249.45
  6    15 ms    15 ms    16 ms  10.255.38.250
  7     *        *        *     请求超时。
  8    14 ms    11 ms    12 ms  101.4.115.105
  9    35 ms    31 ms    30 ms  101.4.117.30
 10    39 ms    38 ms    36 ms  101.4.116.118
 11    41 ms    45 ms    46 ms  101.4.112.69
 12    54 ms    38 ms    51 ms  101.4.113.110
 13    40 ms    40 ms    41 ms  101.4.116.78
 14    42 ms    41 ms    40 ms  101.4.117.102
 15   217 ms   199 ms   203 ms  101.4.117.214
 16   351 ms   220 ms   287 ms  ix-xe-9-1-5-0.tcore1.lvw-losangeles.as6453.net [66.110.59.181]
 17   247 ms   304 ms   201 ms  if-ae-8-3.tcore1.svl-santaclara.as6453.net [63.243.250.58]
 18     *      273 ms     *     if-ae-0-2.tcore2.svl-santaclara.as6453.net [63.243.251.2]
 19   303 ms   191 ms   206 ms  if-ae-7-2.tcore1.pdi-paloalto.as6453.net [209.58.86.74]
 20   196 ms   304 ms   299 ms  66.198.127.161
 21   214 ms   309 ms   299 ms  ae26-0.icr02.by21.ntwk.msn.net [104.44.239.0]
 22   306 ms   406 ms   294 ms  be-122-0.ibr03.by21.ntwk.msn.net [104.44.22.169]
 23   295 ms   256 ms   352 ms  be-6-0.ibr03.cys04.ntwk.msn.net [104.44.28.210]
 24   346 ms   247 ms   266 ms  be-3-0.ibr03.dsm05.ntwk.msn.net [104.44.17.165]
 25   260 ms   276 ms   254 ms  ae140-0.icr03.dsm05.ntwk.msn.net [104.44.22.198]
 26     *        *        *     请求超时。
 27     *        *        *     请求超时。
 28     *        *        *     请求超时。
 29     *        *        *     请求超时。
 30     *        *        *     请求超时。

跟踪完成。
```

2、利用 whois 查询 tencent.com 的相关信息

tencent.com

Updated 2 days ago

Domain Information

Domain:	tencent.com
Registrar:	MarkMonitor Inc.
Registered On:	1998-09-14
Expires On:	2030-09-12
Updated On:	2021-03-03
Status:	clientDeleteProhibited clientTransferProhibited clientUpdateProhibited serverDeleteProhibited serverTransferProhibited serverUpdateProhibited
Name Servers:	ns1.qq.com ns2.qq.com ns3.qq.com ns4.qq.com

Registrant Contact

Organization:	Tencent Technology (shenzhen) Co.Ltd.
State:	Guang Dong
Country:	CN
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com

Administrative Contact

Organization:	Tencent Technology (shenzhen) Co.Ltd.
State:	Guang Dong
Country:	CN
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com

Technical Contact

Organization:	Tencent Technology (shenzhen) Co.Ltd.
State:	Guang Dong
Country:	CN
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com

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: 2021-03-02T19:06:11-0800
Creation Date: 1998-09-13T21:00:00-0700
Registrar Registration Expiration Date: 2030-09-12T21:00:00-0700
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#clientUpdateProhibited)
Domain Status: clientTransferProhibited (https://www.icann.org/epp#clientTransferProhibit
Domain Status: clientDeleteProhibited (https://www.icann.org/epp#clientDeleteProhibited)
Domain Status: serverUpdateProhibited (https://www.icann.org/epp#serverUpdateProhibited)
Domain Status: serverTransferProhibited (https://www.icann.org/epp#serverTransferProhibit
Domain Status: serverDeleteProhibited (https://www.icann.org/epp#serverDeleteProhibited)
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/whois/tenc
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/tencent.c
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/tencent.co
Name Server: ns2.qq.com
Name Server: ns4.qq.com
Name Server: ns1.qq.com
Name Server: ns3.qq.com
DNSSEC: unsigned
URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/
>>> Last update of WHOIS database: 2021-03-02T19:27:15-0800 <<<

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 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 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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In Europe, at +44.02032062220