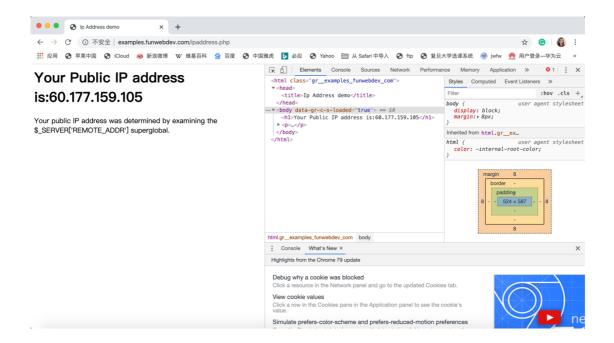
### 一、IP 地址:

en0: flags=8863<UP, BROADCAST, SMART, RUNNING, SIMPLEX, MULTICAST> mtu 1500 options=400<CHANNEL IO> ether dc:a9:04:97:54:86 inet6 fe80::86b:cb41:67e5:e3de%en0 prefixlen 64 secured scopeid 0x4 inet 192.168.0.105 netmask 0xffffff00 broadcast 192.168.0.255 nd6 options=201<PERFORMNUD,DAD> media: autoselect status: active awdl0: flags=8943<UP,BROADCAST,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1484 options=400<CHANNEL\_IO> ether e6:e6:2a:5a:61:ca inet6 fe80::e4e6:2aff:fe5a:61ca%awdl0 prefixlen 64 scopeid 0x6 nd6 options=201<PERFORMNUD, DAD> media: autoselect status: active 11w0: flags=8863<UP, BROADCAST, SMART, RUNNING, SIMPLEX, MULTICAST> mtu 1500 options=400<CHANNEL\_IO> ether e6:e6:2a:5a:61:ca inet6 fe80::e4e6:2aff:fe5a:61ca%llw0 prefixlen 64 scopeid 0x7 nd6 options=201<PERFORMNUD, DAD> media: autoselect status: active

## 二、网页的组成部分:



## 三、域名服务器:

Address: 39.156.69.79

#### 1、查询 baidu. com 的 A 地址记录

```
[wuyanqi0822@wuyanqideMacBook ~ % nslookup -type=A baidu.com
Server: 192.168.0.1
Address: 192.168.0.1#53

Non-authoritative answer:
Name: baidu.com
Address: 220.181.38.148
Name: baidu.com
```

### 2、 查询 baidu. com 的域名服务器

```
[wuyanqi0822@wuyanqideMacBook ~ % nslookup -type=ns baidu.com
Server:
                192.168.0.1
                192.168.0.1#53
Address:
Non-authoritative answer:
baidu.com
                nameserver = ns3.baidu.com.
baidu.com
                nameserver = ns2.baidu.com.
baidu.com
                nameserver = ns4.baidu.com.
baidu.com
                nameserver = dns.baidu.com.
                nameserver = ns7.baidu.com.
baidu.com
Authoritative answers can be found from:
dns.baidu.com internet address = 202.108.22.220
ns2.baidu.com
                internet address = 220.181.33.31
ns3.baidu.com
                internet address = 112.80.248.64
                internet address = 14.215.178.80
ns4.baidu.com
ns7.baidu.com
                internet address = 180.76.76.92
```

### 3、使用授权服务器查询 baidu. com 的 IP 地址

Address: 39.156.69.79 Name: baidu.com Address: 220.181.38.148

#### 4、查询 114. 114. 114. 114 匹配的主机名

[wuyanqi0822@wuyanqideMacBook ~ % nslookup 114.114.114.114

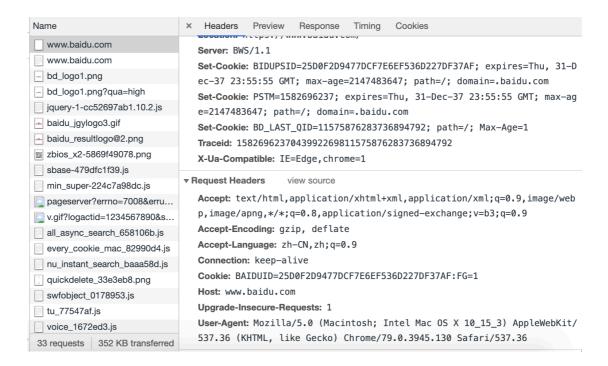
Server: 192.168.0.1 Address: 192.168.0.1#53

Non-authoritative answer:

114.114.114.114.in-addr.arpa name = public1.114dns.com.

Authoritative answers can be found from:

### 四、观察 HTTP 标头:



User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_15\_3) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/79.0.3945.130 Safari/537.36

# 五、追踪数据包:

#### 1、跟踪计算机发往 microsoft. com 的数据包

wuyanqi0822@wuyanqideMacBook ~ % 🗌

```
[wuyanqi0822@wuyanqideMacBook ~ % traceroute microsoft.com
traceroute: Warning: microsoft.com has multiple addresses; using 104.215.148.63
traceroute to microsoft.com (104.215.148.63), 64 hops max, 52 byte packets 1 192.168.0.1 (192.168.0.1) 3.048 ms 3.360 ms 1.246 ms
 2 1.152.177.60.broad.hz.zj.dynamic.163data.com.cn (60.177.152.1) 4.360 ms 4
411 ms 6.128 ms
     61.164.4.220 (61.164.4.220) 6.477 ms 4.278 ms 3.909 ms
     61.164.22.109 (61.164.22.109) 6.656 ms
61.164.22.101 (61.164.22.101) 5.247 ms
     61.164.22.105 (61.164.22.105) 5.439 ms
     202.97.26.9 (202.97.26.9) 9.860 ms 15.467 ms
     202.97.68.137 (202.97.68.137) 14.650 ms
202.97.57.149 (202.97.57.149) 11.191 ms 7.422 ms 7.616 ms
     202.97.90.29 (202.97.90.29) 13.451 ms
     202.97.74.5 (202.97.74.5) 30.446 ms
202.97.90.29 (202.97.90.29) 17.211 ms
     202.97.6.50 (202.97.6.50) 40.883 ms * 48.326 ms
     183.91.34.126 (183.91.34.126) 52.036 ms 139.456 ms 52.948 ms
     * ae24-0.icr01.hkg20.ntwk.msn.net (104.44.237.201) 51.680 ms 46.285 ms be-120-0.ibr02.hkg20.ntwk.msn.net (104.44.11.151) 72.697 ms 73.754 ms *
     be-6-0.ibr02.sg3.ntwk.msn.net (104.44.16.238) 84.145 ms 82.118 ms
be-4-0.ibr01.sg3.ntwk.msn.net (104.44.16.236) 75.533 ms
     ae122-0.icr02.sg3.ntwk.msn.net (104.44.20.18) 80.503 ms
ae120-0.icr01.sg3.ntwk.msn.net (104.44.20.22) 81.315 ms 88.032 ms
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```

#### 2、利用 whois 查询 tencent. com 的相关信息

```
wuyanqi0822@wuyanqideMacBook ~ % whois tencent.com
% IANA WHOIS server
% for more information on IANA, visit http://www.iana.org
% This query returned 1 object
                                                                                            whois.verisign-grs.com
                                                                                                      СОМ
     organisation: VeriSign Global Registry Services
address: 12061 Bluemont Way
address: Reston Virginia 20190
address: United States
      address: United States

contact: administrative
name: Registry Customer Service
organisation: VeriSign Global Registry Services
address: 12061 Bluemont Way
address: Reston Virginia 20190
address: United States
phone: +1 703 925-6999
fax-no: +1 703 948 3978
e-mail: info@verisign-grs.com
        contact:
                                                                                                               technical
      contact: technical
name: Registry Customer Service
organisation: VeriSign Global Registry Services
address: 120d1 Bluemont Way
address: Reston Virginia 20190
address: United States
phone: +1 703 925-6999
fax-no: +1 703 948 3978
e-mail: info@verisign-grs.com
                                                                                                           A.GTLD-SERVERS, NET 192. 5.6.39 2001:503:a83e:0:0:0:2:30

8.GTLD-SERVERS, NET 192. 33.14.30 2001:503:231d:9:0:0:2:30

8.GTLD-SERVERS, NET 192. 26.92.30 2001:503:231d:9:0:0:2:30

0.GTLD-SERVERS, NET 192.26.92.30 2001:503:33e0:0:0:0:0:30

0.GTLD-SERVERS, NET 192.31.80.30 2001:500:8560:0:0:0:0:0:30

F.GTLD-SERVERS, NET 192.12.94.30 2001:502:1ca1:0:0:0:0:30

F.GTLD-SERVERS, NET 192.135.51.30 2001:502:1ca1:0:0:0:0:30

G.GTLD-SERVERS, NET 192.42.93.30 2001:503:261:0:0:0:0:30

H.GTLD-SERVERS, NET 192.44.112.30 2001:503:961:0:0:0:0:30

H.GTLD-SERVERS, NET 192.45.112.30 2001:503:961:0:0:0:0:30

J.GTLD-SERVERS, NET 192.48.79.30 2001:503:961:0:0:0:0:30

J.GTLD-SERVERS, NET 192.48.79.30 2001:503:961:0:0:0:0:30

J.GTLD-SERVERS, NET 192.48.79.30 2001:503:094:0:0:0:0:30

J.GTLD-SERVERS, NET 192.52.178.30 2001:503:094:0:0:0:0:30

L.GTLD-SERVERS, NET 192.54.1162.30 2001:503:0937:0:0:0:0:30

M.GTLD-SERVERS, NET 192.54.1162.30 2001:503:0937:0:0:0:0:30

M.GTLD-SERVERS, NET 192.54.1162.30 2001:503:0937:0:0:0:0:30

M.GTLD-SERVERS, NET 192.55.33 20201:503:0937:0:0:0:0:30

M.GTLD-SERVERS, NET 192.55.33 20201:503:1051:1050:0:0:0:30
      whois:
                                                                                                             whois.verisign-grs.com
                                                                                                             ACTIVE Registration information: http://www.verisigninc.com
      # whois.verisign-grs.com
                       whois.verisign-grs.com

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: 1298-09-14164:00:00Z
Registry Expiry Date: 2021-09-13704:00:00Z
Registry: Expiry Date: 2021-09-13704:00:00Z
Registry: MarkMonitor Inc.
Registrar IMAIN ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2083895740
Domain Status: clientDelateProhibited https://icann.org/epp#clientDelateProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientDelateProhibited
Domain Status: serverDelateProhibited https://icann.org/epp#serverDelateProhibited
Domain Status: serverDelateProhibited https://icann.org/epp#serverPolateProhibited
Domain Status: serverDelateProhibited https://icann.org/epp#serverPolateProhibited
Domain Status: serverDelateProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: serverDelateProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: serverDelateProhibited https://icann.org/epp#serverTransferProhibited
Name Server: NS1.QQ.COM
                             Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhi
Name Server: NS1.QQ.COM
Name Server: NS2.QQ.COM
Name Server: NS3.QQ.COM
Name Server: NS4.QQ.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
Last update of whois database: 2020-02-26T06:15:50Z <<<
Domain Name: tencent.com
Registry Domain ID: 3216596_DOMAIN_COM-VRSN
Registry The Server: whois.markmonitor.com
Registry WHOIS Server: whois.markmonitor.com
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Registrar URL: http://www.markmonitor.com
Registrar URL: http://www.markmonitor.com
Registrar URL: http://www.markmonitor.com
Registrar Registration Expiration Date: 2021—09-12700:00-0700
Registrar Registration Expiration Date: 2021—09-12700:00-0700
Registrar Answer Contact Phone: +1.2083895770
Registrar Abuse Contact Phone: +1.2083895770
Domain Status: clientPlate of the state of 
      # whois.markmonitor.com
      wuyangi0822@wuyangideMacBook ~ %
```