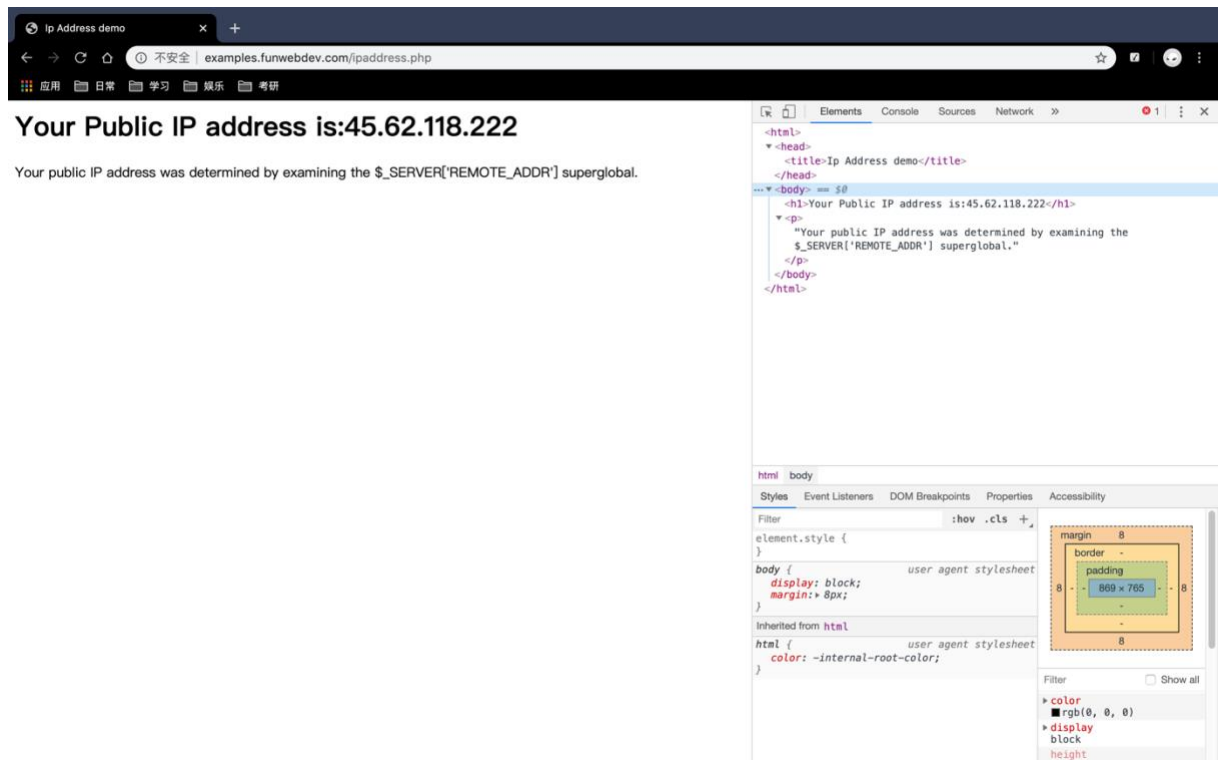


1.ip 地址

```
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    ether f4:5c:89:a4:1d:a3
    inet6 fe80::1c9a:6b21:fb96:1f95%en0 prefixlen 64 secured scopeid 0x5
    inet 192.168.1.101 netmask 0xffffffff broadcast 192.168.1.255
    nd6 options=201<PERFORMNUD,DAD>
    media: autoselect
    status: active
```

2.分析网页的组成部分



3.域名服务器

查询 baidu.com 的 A 地址：

```
[taoyuedeMacBook-Pro:~ taoyue$ nslookup baidu.com
Server:          223.5.5.5
Address:         223.5.5.5#53
```

Non-authoritative answer:

```
Name:   baidu.com
Address: 220.181.38.148
Name:   baidu.com
Address: 39.156.69.79
```

查询 baidu.com 的域名服务器：

```
[taoyuedeMacBook-Pro:~ taoyue$ nslookup -type=ns baidu.com
Server:          223.5.5.5
Address:         223.5.5.5#53

Non-authoritative answer:
baidu.com        nameserver = ns4.baidu.com.
baidu.com        nameserver = dns.baidu.com.
baidu.com        nameserver = ns3.baidu.com.
baidu.com        nameserver = ns7.baidu.com.
baidu.com        nameserver = ns2.baidu.com.
```

使用授权服务器查询 baidu.com 的 IP 地址：

```
[taoyuedeMacBook-Pro:~ taoyue$ nslookup baidu.com ns4.baidu.com
Server:          ns4.baidu.com
Address:         14.215.178.80#53

Name:   baidu.com
Address: 220.181.38.148
Name:   baidu.com
Address: 39.156.69.79
```

查询 114.114.114.114 匹配的主机名：

```
[taoyuedeMacBook-Pro:~ taoyue$ nslookup 114.114.114.114
Server:          223.5.5.5
Address:         223.5.5.5#53

Non-authoritative answer:
114.114.114.114.in-addr.arpa    name = public1.114dns.com.
```

4.观察 HTTP 标头

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.130 Safari/537.36

5.追踪数据包

tracert microsoft.com :

```
taoyuedeMacBook-Pro:~ taoyue$ tracert microsoft.com
tracert: Warning: microsoft.com has multiple addresses; using 40.113.200.201
tracert to microsoft.com (40.113.200.201), 64 hops max, 52 byte packets
 1  192.168.1.1 (192.168.1.1)  1.532 ms  0.845 ms  1.481 ms
 2  10.236.128.1 (10.236.128.1)  4.428 ms  2.008 ms  2.139 ms
 3  10.236.4.25 (10.236.4.25)  2.352 ms  1.963 ms  2.162 ms
 4  10.236.4.34 (10.236.4.34)  3.886 ms  3.317 ms  3.768 ms
 5  10.15.90.109 (10.15.90.109)  4.945 ms  3.841 ms  4.328 ms
 6  10.15.90.105 (10.15.90.105)  228.907 ms  58.551 ms  59.202 ms
 7  10.15.90.106 (10.15.90.106)  44.552 ms  44.838 ms  44.452 ms
 8  * * *
 9  * * *
10  192.168.58.1 (192.168.58.1)  55.085 ms * *
11  122.225.69.22 (122.225.69.22)  51.986 ms
    122.225.69.20 (122.225.69.20)  62.848 ms
    115.233.128.134 (115.233.128.134)  67.413 ms
12  220.191.200.73 (220.191.200.73)  49.205 ms
    220.191.200.105 (220.191.200.105)  60.594 ms
    220.191.200.81 (220.191.200.81)  52.351 ms
13  202.97.55.5 (202.97.55.5)  51.383 ms
    202.97.26.17 (202.97.26.17)  53.043 ms
    202.97.82.25 (202.97.82.25)  53.914 ms
14  202.97.57.149 (202.97.57.149)  62.304 ms
    202.97.94.237 (202.97.94.237)  67.770 ms  63.783 ms
15  202.97.12.182 (202.97.12.182)  52.306 ms
    202.97.12.197 (202.97.12.197)  68.372 ms
    202.97.12.206 (202.97.12.206)  62.027 ms
16  202.97.25.230 (202.97.25.230)  126.846 ms
    202.97.6.6 (202.97.6.6)  106.342 ms *
17  203.215.232.174 (203.215.232.174)  92.454 ms  82.284 ms  84.055 ms
18  * ae24-0.ibr02.hkg31.ntwk.msn.net (104.44.237.198)  82.643 ms  80.825 ms
19  be-102-0.ibr01.hkg31.ntwk.msn.net (104.44.11.121)  351.882 ms
    be-122-0.ibr02.hkg31.ntwk.msn.net (104.44.11.137)  260.917 ms
    be-102-0.ibr01.hkg31.ntwk.msn.net (104.44.11.121)  308.545 ms
20  be-10-0.ibr02.tyo79.ntwk.msn.net (104.44.17.192)  245.020 ms
    be-11-0.ibr01.tyo79.ntwk.msn.net (104.44.17.134)  306.907 ms *
21  * be-5-0.ibr02.pdx30.ntwk.msn.net (104.44.19.85)  271.432 ms
    be-7-0.ibr01.pdx30.ntwk.msn.net (104.44.18.167)  262.969 ms
22  * be-4-0.ibr04.mwh01.ntwk.msn.net (104.44.16.68)  351.932 ms
    be-4-0.ibr03.mwh01.ntwk.msn.net (104.44.16.66)  286.226 ms
23  be-2-0.ibr02.mwh01.ntwk.msn.net (104.44.16.81)  306.221 ms * 240.161 ms
24  be-7-0.ibr02.cys04.ntwk.msn.net (104.44.18.224)  246.426 ms  299.875 ms
    be-8-0.ibr01.cys04.ntwk.msn.net (104.44.18.222)  393.737 ms
25  be-8-0.ibr02.dsm05.ntwk.msn.net (104.44.18.151)  271.737 ms * *
26  ae161-0.ibr03.dsm05.ntwk.msn.net (104.44.22.190)  255.384 ms
    ae160-0.ibr01.dsm05.ntwk.msn.net (104.44.22.186)  261.350 ms
    ae161-0.ibr03.dsm05.ntwk.msn.net (104.44.22.190)  306.967 ms
27  * * *
28  * * *
29  * * *
30  * * *
31  * * *
32  * * *
33  * * *
34  * * *
35  * * *
36  * * *
```

利用 whois 查询 tencent.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: 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#clientUpdateProhibited)
Domain Status: clientTransferProhibited (https://www.icann.org/epp#clientTransferProhibited)
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#serverTransferProhibited)
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/tencent.com
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.com
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.com
Name Server: ns4.qq.com
Name Server: ns3.qq.com
Name Server: ns2.qq.com
Name Server: ns1.qq.com
DNSSEC: unsigned
URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/
>>> Last update of WHOIS database: 2020-02-25T22:53:24-0800 <<<
```