Lab₀

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一、我的IP地址

图1 "status"为"active"

en0: flags=8863<UP, BROADCAST, SMART, RUNNING, SIMPLEX, MULTICAST> mtu 1500

ether f0:18:98:1c:7e:17

inet6 fe80::c5e:15e8:eb5d:97bb%en0 prefixlen 64 secured scopeid 0xa

inet 192.168.3.30 netmask 0xffffff00 broadcast 192.168.3.255

nd6 options=201<PERFORMNUD,DAD>

media: autoselect status: active

awdl0: flags=8943<UP,BROADCAST,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1484

ether 12:ea:98:b6:74:62

inet6 fe80::10ea:98ff:feb6:7462%awdl0 prefixlen 64 scopeid 0xc

nd6 options=201<PERFORMNUD,DAD>

media: autoselect status: active

en5: flags=8863<UP, BROADCAST, SMART, RUNNING, SIMPLEX, MULTICAST> mtu 1500

ether ac:de:48:00:11:22

inet6 fe80::aede:48ff:fe00:1122%en5 prefixlen 64 scopeid 0x8

nd6 options=201<PERFORMNUD, DAD>

media: autoselect (100baseTX <full-duplex>)

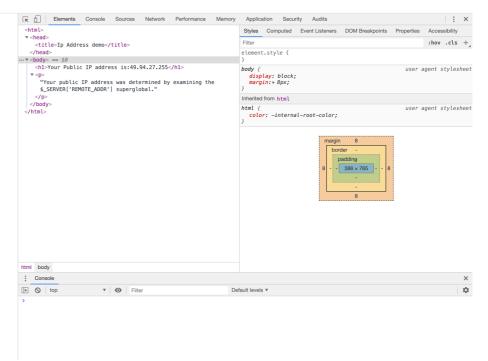
status: active

二、分析一个网页的组成部分

图2 展开左边所有的 HTML 标签,将整个网页内容连同开发者工具页面一同截图

Your Public IP address is:49.94.27.255

Your public IP address was determined by examining the \$_SERVER['REMOTE_ADDR'] superglobal



三、域名服务器

图3 查询 baidu.com 的 A 地址记录截图

[bianyuzhedeMacBook-Pro:~ fortunebian\$ nslookup -type=A baidu.com

Server: 8.8.8.8 Address: 8.8.8.8#53

Non-authoritative answer:

Name: baidu.com Address: 39.156.69.79 Name: baidu.com

Address: 220.181.38.148

图4 查询 baidu.com 的 域名服务器截图

bianyuzhedeMacBook-Pro:~ fortunebian\$ nslookup -type=ns baidu.com

Server: 8.8.8.8 Address: 8.8.8.8#53

Non-authoritative answer:

baidu.com nameserver = ns2.baidu.com.
baidu.com nameserver = ns4.baidu.com.
baidu.com nameserver = dns.baidu.com.
baidu.com nameserver = ns7.baidu.com.
baidu.com nameserver = ns3.baidu.com.

Authoritative answers can be found from:

图5 使用授权服务器查询 baidu.com 的 IP 地址的截图

[bianyuzhedeMacBook-Pro:~ fortunebian\$ nslookup baidu.com ns2.baidu.com

Server: ns2.baidu.com Address: 220.181.33.31#53

Name: baidu.com

Address: 220.181.38.148

Name: baidu.com Address: 39.156.69.79

图6 查询 114.114.114 匹配的主机名的截图

[bianyuzhedeMacBook-Pro:~ fortunebian\$ nslookup 114.114.114.114

Server: 8.8.8.8 Address: 8.8.8.8#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

图7 观察完Headers之后截下User-Agent的完整信息

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

五、追踪数据包

图8 跟踪一个从你的计算机发往 microsoft.com 的数据包,并截图

```
1 172.20.10.1 (172.20.10.1) 4.426 ms 4.378 ms 9.130 ms
 2 * * *
 3 * * *
 4 172.19.2.18 (172.19.2.18)
                              25.601 ms
   172.19.2.10 (172.19.2.10) 38.291 ms
   172.19.2.18 (172.19.2.18) 34.022 ms
 5 * * *
 6 192.168.0.254 (192.168.0.254) 25.735 ms * 44.950 ms
 7 * * *
 8 118.84.194.45 (118.84.194.45) 35.705 ms
    221.228.49.5 (221.228.49.5) 26.277 ms
    118.84.194.41 (118.84.194.41) 39.285 ms
  202.97.92.25 (202.97.92.25) 57.161 ms
    202.97.92.5 (202.97.92.5) 41.033 ms 45.711 ms
10 202.97.48.14 (202.97.48.14) 87.745 ms 95.448 ms 83.687 ms
   202.97.33.154 (202.97.33.154) 45.205 ms 31.209 ms
    202.97.12.210 (202.97.12.210) 36.937 ms
12 * 202.97.25.230 (202.97.25.230) 62.225 ms
    202.97.63.118 (202.97.63.118) 76.402 ms
   203.215.232.174 (203.215.232.174) 132.417 ms 105.391 ms 111.785 ms
   ae24-0.icr02.hkg31.ntwk.msn.net (104.44.237.198) 80.082 ms 64.894 ms *
   be-102-0.ibr01.hkg31.ntwk.msn.net (104.44.11.121) 233.150 ms
    be-122-0.ibr02.hkg31.ntwk.msn.net (104.44.11.137)
                                                     254.987 ms
    be-102-0.ibr01.hkg31.ntwk.msn.net (104.44.11.121) 233.692 ms
    be-11-0.ibr01.tyo79.ntwk.msn.net (104.44.17.134) 233.967 ms * 253.519 ms
   be-7-0.ibr01.pdx30.ntwk.msn.net (104.44.18.167) 259.384 ms
    be-5-0.ibr02.pdx30.ntwk.msn.net (104.44.19.85) 262.443 ms
                                                              273.216 ms
   be-4-0.ibr03.mwh01.ntwk.msn.net (104.44.16.66) 241.205 ms
                                                              221.671 ms
    be-4-0.ibr04.mwh01.ntwk.msn.net (104.44.16.68) 283.902 ms
   be-2-0.ibr01.mwh01.ntwk.msn.net (104.44.16.84) 248.259 ms
    be-2-0.ibr02.mwh01.ntwk.msn.net (104.44.16.81) 249.402 ms 248.648 ms
20 be-7-0.ibr02.cys04.ntwk.msn.net (104.44.18.224) 229.940 ms
    be-8-0.ibr01.cys04.ntwk.msn.net (104.44.18.222) 257.777 ms *
21
   * * *
22 ae142-0.icr02.dsm05.ntwk.msn.net (104.44.22.180) 216.095 ms 229.979 ms
    ae163-0.icr04.dsm05.ntwk.msn.net (104.44.22.192) 275.823 ms
23
   * * *
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```

图9 利用 whois 查询 tencent.com 的相关信息,并截图

refer: whois.verisign-grs.com

domain: COM

organisation: VeriSign Global Registry Services

address: 12061 Bluemont Way address: Reston Virginia 20190

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

phone:

name: Registry Customer Service

+1 703 925-6999

organisation: VeriSign Global Registry Services

address: 12061 Bluemont Way address: Reston Virginia 20190 address: United States

fax-no: +1 703 948 3978 e-mail: info@verisign-grs.com

A.GTLD-SERVERS.NET 192.5.6.30 2001:503:a83e:0:0:0:2:30 nserver: B.GTLD-SERVERS.NET 192.33.14.30 2001:503:231d:0:0:0:2:30 nserver: C.GTLD-SERVERS.NET 192.26.92.30 2001:503:83eb:0:0:0:0:30 nserver: D.GTLD-SERVERS.NET 192.31.80.30 2001:500:856e:0:0:0:30 nserver: nserver: E.GTLD-SERVERS.NET 192.12.94.30 2001:502:1ca1:0:0:0:0:30 F.GTLD-SERVERS.NET 192.35.51.30 2001:503:d414:0:0:0:0:30 nserver: G.GTLD-SERVERS.NET 192.42.93.30 2001:503:eea3:0:0:0:0:30 nserver: H.GTLD-SERVERS.NET 192.54.112.30 2001:502:8cc:0:0:0:30 nserver: nserver:

nserver: H.GILD-SERVERS.NET 192.54.112.30 2001:502:8cc:0:0:0:0:0:30 nserver: I.GTLD-SERVERS.NET 192.43.172.30 2001:503:39c1:0:0:0:0:30 nserver: J.GTLD-SERVERS.NET 192.48.79.30 2001:502:7094:0:0:0:0:30 nserver: K.GTLD-SERVERS.NET 192.52.178.30 2001:503:d2d:0:0:0:0:30 nserver: L.GTLD-SERVERS.NET 192.41.162.30 2001:500:d937:0:0:0:0:30 nserver: M.GTLD-SERVERS.NET 192.55.83.30 2001:501:b1f9:0:0:0:0:30

ds-rdata: 30909 8 2 E2D3C916F6DEEAC73294E8268FB5885044A833FC5459588F4A9184CFC41A5766

whois: whois.verisign-grs.com

status: ACTIVE

remarks: Registration information: http://www.verisigninc.com

created: 1985-01-01 changed: 2017-10-05 source: IANA

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: 2019-08-12T09:11:43Z Creation Date: 1998-09-14T04:00:00Z Registry Expiry Date: 2021-09-13T04:00:00Z

Registrar: MarkMonitor Inc.

Registrar IANA ID: 292

Registrar Abuse Contact Email: abusecomplaints@markmonitor.com

Registrar Abuse Contact Phone: +1.2083895740

Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited

Name Server: NS1.QQ.COM Name Server: NS2.QQ.COM Name Server: NS3.QQ.COM Name Server: NS4.QQ.COM DNSSEC: unsigned