

Lab 0

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Part1 IP address

```
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    ether d0:81:7a:b3:cd:5e
    inet6 fe80::66:316:31ae:ff1d%en0 prefixlen 64 secured scopeid 0x6
    inet 192.168.0.104 netmask 0xfffff00 broadcast 192.168.0.255
    nd6 options=201<PERFORMNUD,DAD>
    media: autoselect
    1 status: active
p2p0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 2304
    ether 02:81:7a:b3:cd:5e
    media: autoselect
    status: inactive
awdl0: flags=8943<UP,BROADCAST,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1484
    ether de:6b:45:00:e1:14
    inet6 fe80::dc6b:45ff:fe00:e114%awdl0 prefixlen 64 scopeid 0x8
    nd6 options=201<PERFORMNUD,DAD>
    2 media: autoselect
    status: active
```

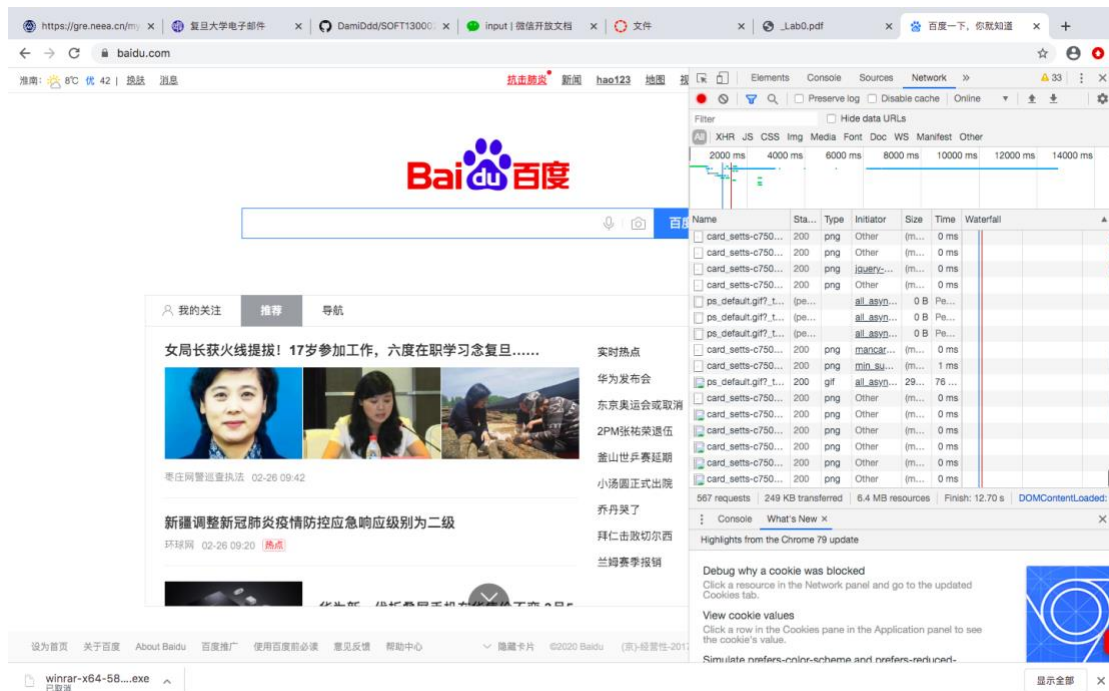
Part2 page

The screenshot shows a web browser window with the address bar displaying `https://gre.need.cn/my`. The page content displays the public IP address `120.243.147.219` and a message stating: "Your public IP address was determined by examining the `$_SERVER['REMOTE_ADDR']` superglobal."

The Chrome DevTools interface is open, showing the **Elements** panel on the right. The **body** element is selected, and the **Styles** panel shows the following CSS rules:

```
body {
  display: block;
  margin: 8px;
}
html {
  color: -internal-root-color;
}
```

The **Console** panel shows a message: "Debug why a cookie was blocked" with a link to "View cookie values".



Part3 Name server

```
[qujunjiedeMacBook-Air:~ qujunjie$ nslookup baidu.com
```

```
Server:      192.168.1.1
Address:     192.168.1.1#53
```

```
Non-authoritative answer:
```

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

```
[qujunjiedeMacBook-Air:~ qujunjie$ nslookup -type=ns baidu.com
```

```
Server:      192.168.1.1
Address:     192.168.1.1#53
```

```
Non-authoritative answer:
```

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

```
Authoritative answers can be found from:
```

```
[qujunjiedeMacBook-Air:~ qujunjie$ nslookup baidu.com ns2.baidu.com
```





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

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

```
[qujunjiedeMacBook-Air:~ qujunjie$ nslookup 114.114.114.114
Server:          192.168.1.1
Address:         192.168.1.1#53
```

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

Part4 HTTP headers

Name	×	Headers	Preview	Response	Timing	Initiator
 data:image/png;base64...		cqaq31NfZ2t3e3+Dl60n5+/z9BL131wAAAHdJREFUCB0FwYcCgQAUAMBTfGWPacGb9///5w5s+3e/BdgNy8lq2AH6AsUZ8EuQ/AABAhAgAAECECAgUjGCKH49c9cZZlfTh2ZvcymT8rKxb8xvmXX36day25xjm4GsPSGt7od8nB/uVQoW9Ste9QKAAAABAAL4AzokCI8/h6hiAAAAAE\FTkSuQmCC Request Method: GET Status Code: ● 200 OK (from memory cache) Referrer Policy: unsafe-url				
 v.gif?pid=201&pj=www&fm=b...						
 v.gif?pid=201&pj=www&fm=t...						
 v.gif?mod=superman%3Aps...						
		▼ Response Headers Content-Type: image/png				
		▼ Request Headers ⚠ Provisional headers are shown Referer: https://www.baidu.com/ User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.117 Safari/537.36				
4 requests		867 B transferred				

Part5 Tracing a packet

```
[qujunjieMacBook-Air:~ qujunjie$ 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) 1.699 ms 1.227 ms 1.884 ms
 2 192.168.1.1 (192.168.1.1) 2.003 ms 1.555 ms 1.134 ms
 3 100.115.240.1 (100.115.240.1) 3.339 ms 3.877 ms 29.651 ms
 4 111.39.161.157 (111.39.161.157) 11.431 ms 4.736 ms 3.719 ms
 5 120.210.231.249 (120.210.231.249) 9.401 ms
   120.210.231.181 (120.210.231.181) 10.488 ms
   221.183.19.133 (221.183.19.133) 7.472 ms
 6 221.183.19.133 (221.183.19.133) 7.411 ms 6.826 ms 6.999 ms
 7 221.176.18.46 (221.176.18.46) 27.701 ms 27.893 ms 27.080 ms
 8 221.176.22.234 (221.176.22.234) 56.049 ms 52.597 ms 56.257 ms
 9 * 221.176.24.58 (221.176.24.58) 84.324 ms 93.618 ms
10 221.183.30.142 (221.183.30.142) 91.123 ms *
   221.183.30.134 (221.183.30.134) 103.016 ms
11 223.118.2.214 (223.118.2.214) 102.608 ms 92.954 ms 73.320 ms
12 223.119.0.174 (223.119.0.174) 73.980 ms 87.420 ms 95.663 ms
13 ae24-0.icr01.hkg20.ntwk.msn.net (104.44.237.201) 94.912 ms 87.064 ms 84.389 ms
14 be-100-0.ibr01.hkg20.ntwk.msn.net (104.44.11.135) 125.399 ms
   be-120-0.ibr02.hkg20.ntwk.msn.net (104.44.11.151) 122.794 ms
   be-100-0.ibr01.hkg20.ntwk.msn.net (104.44.11.135) 118.626 ms
15 be-6-0.ibr02.sg3.ntwk.msn.net (104.44.16.238) 123.218 ms *
   be-4-0.ibr01.sg3.ntwk.msn.net (104.44.16.236) 127.270 ms
16 ae120-0.icr01.sg3.ntwk.msn.net (104.44.20.22) 126.025 ms 123.724 ms 123.343 ms
17 * * *
18 * * *
19 * * *
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24 * * *
25 * * *
26 * * *
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51 * * *
52 * * *
53 * * *
```

[qujunjiedeMacBook-Air:~ qujunjie\$ whois tencent.com
% IANA WHOIS server
% for more information on IANA, visit <http://www.iana.org>
% This query returned 1 object

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
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

nserver: 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:0:0:0:0:30
nserver: E.GTLD-SERVERS.NET 192.12.94.30 2001:502:1ca1:0:0:0:0:30
nserver: 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:0:0:0:0:30
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

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
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2020-02-26T02:18:57Z <<<

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: ns2.qq.com
Name Server: ns1.qq.com
Name Server: ns4.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: 2020-02-25T18:19:55-0800 <<<