Lab 0

1.IP 地址

```
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        options=400<CHANNEL_IO>
        ether f8:ff:c2:00:d4:c2
        inet6 fe80::5:3e9d:c83c:5a77%en0 prefixlen 64 secured scopeid 0x6
        inet 192.168.101.10 netmask 0xffffff00 broadcast 192.168.101.255
        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 0x4
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect (100baseTX <full-duplex>)
        status: active

awdl0: flags=8943<UP,BROADCAST,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1484
        options=400<CHANNEL_IO>
        ether a6:1c:54:f9:7c:ec
        inet6 fe80::a41c:54ff:fef9:7cec%awdl0 prefixlen 64 scopeid 0x8
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active

llw0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        options=400<CHANNEL_IO>
        ether a6:1c:54:f9:7c:ec
        inet6 fe80::a41c:54ff:fef9:7cec%llw0 prefixlen 64 scopeid 0x9
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
```
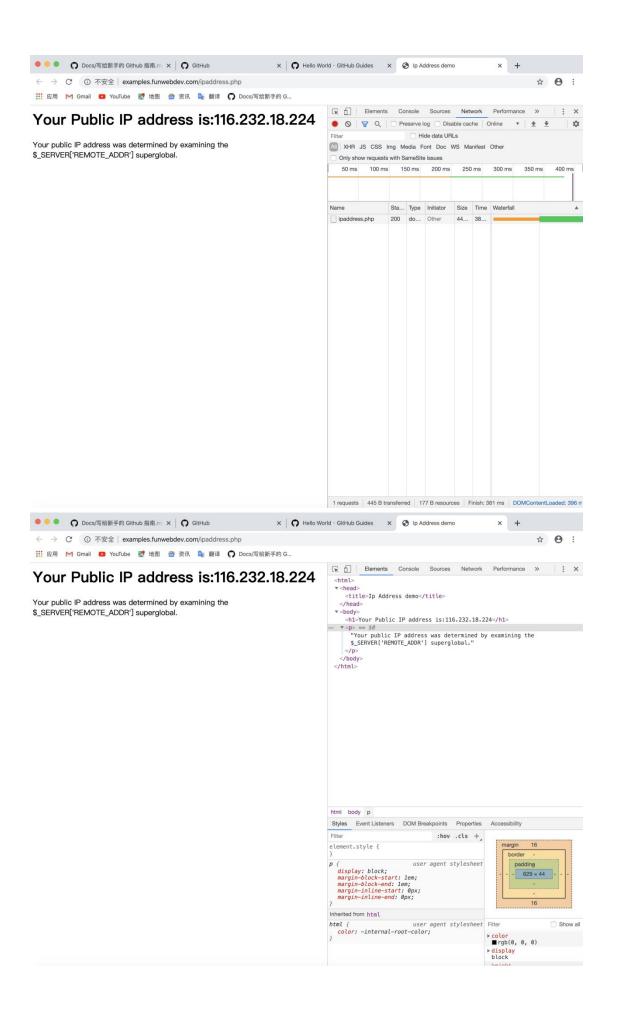
2.分析一个网页的组成部分

Your Public IP address is:116.232.18.224

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

Your Public IP address is:116.232.18.224

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

```
<html>
▼<head>
    <title>Ip Address demo</title>
  </head>
▼<body>
    <h1>Your Public IP address is:116.232.18.224</h1>
··· ▼<p> == $0
      "Your public IP address was determined by examining the
       $_SERVER['REMOTE_ADDR'] superglobal."
    </p>
  </body>
</html>
```

html body p

Styles   Event Listeners   DOM Breakpoints   Properties   Accessibility

Filter   :hov .cls +

```
element.style {
}

p {                        user agent stylesheet
  display: block;
  margin-block-start: 1em;
  margin-block-end: 1em;
  margin-inline-start: 0px;
  margin-inline-end: 0px;
}
```

Inherited from html

```
html {                     user agent stylesheet
  color: -internal-root-color;
}
```

Filter   Show all

▶ color
  ■ rgb(0, 0, 0)
▶ display
  block

3.域名服务器

(1)

```
 Last login: Wed Feb 26 09:18:48 on ttys000
[jingjing@jingjingdeMacBook-Pro ~ % nslookup baidu.com
 Server:          192.168.101.1
 Address:         192.168.101.1#53

 Non-authoritative answer:
 Name:   baidu.com
 Address: 220.181.38.148
 Name:   baidu.com
 Address: 39.156.69.79
```

(2)

```
[jingjing@jingjingdeMacBook-Pro ~ % nslookup -type=ns google.com
 Server:          192.168.101.1
 Address:         192.168.101.1#53

 Non-authoritative answer:
 google.com       nameserver = ns2.google.com.
 google.com       nameserver = ns3.google.com.
 google.com       nameserver = ns4.google.com.
 google.com       nameserver = ns1.google.com.
```

(3)
```
jingjing@jingjingdeMacBook-Pro ~ % 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
```

(4)
```
jingjing@jingjingdeMacBook-Pro ~ % nslookup 114.114.114.114
 Server:          192.168.101.1
 Address:         192.168.101.1#53

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

 Authoritative answers can be found from:
```
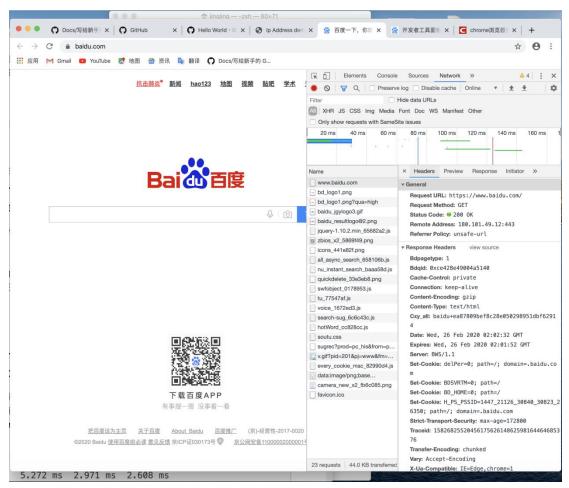
4.观察 HTTP 标头

5.追踪数据包

(1)

```
● ● ●                 🏠 jingjing — traceroute microsoft.com — 80×71

Last login: Wed Feb 26 09:21:17 on ttys000
[jingjing@jingjingdeMacBook-Pro ~ % traceroute microsoft.com                  ]
traceroute: Warning: microsoft.com has multiple addresses; using 40.76.4.15
traceroute to microsoft.com (40.76.4.15), 64 hops max, 52 byte packets
 1  192.168.101.1 (192.168.101.1)  3.528 ms  4.320 ms  4.016 ms
 2  192.168.1.1 (192.168.1.1)  8.034 ms  5.249 ms  4.421 ms
 3  61.152.2.106 (61.152.2.106)  7.567 ms
    61.152.51.206 (61.152.51.206)  35.781 ms
    61.152.2.106 (61.152.2.106)  9.585 ms
 4  61.152.3.21 (61.152.3.21)  8.330 ms
    61.152.2.105 (61.152.2.105)  11.706 ms
    61.152.2.109 (61.152.2.109)  8.039 ms
 5  101.95.120.150 (101.95.120.150)  10.302 ms
    101.95.120.206 (101.95.120.206)  8.189 ms
    101.95.88.14 (101.95.88.14)  8.891 ms
 6  202.97.94.237 (202.97.94.237)  25.356 ms
    202.97.57.229 (202.97.57.229)  6.854 ms
    202.97.24.190 (202.97.24.190)  25.056 ms
 7  202.97.33.134 (202.97.33.134)  7.387 ms  14.526 ms  9.365 ms
 8  202.97.91.110 (202.97.91.110)  37.996 ms
    202.97.63.114 (202.97.63.114)  36.838 ms
    202.97.6.6 (202.97.6.6)  53.681 ms
 9  203.215.232.174 (203.215.232.174)  48.754 ms  46.674 ms  45.940 ms
10  ae20-0.icr02.hkg20.ntwk.msn.net (104.44.237.203)  47.722 ms  46.767 ms  50.5
76 ms
11  be-122-0.ibr02.hkg20.ntwk.msn.net (104.44.11.147)  263.474 ms
    be-122-0.ibr02.hkg31.ntwk.msn.net (104.44.11.137)  297.347 ms
    be-102-0.ibr01.hkg31.ntwk.msn.net (104.44.11.121)  262.453 ms
12  be-10-0.ibr02.tyo79.ntwk.msn.net (104.44.17.192)  259.915 ms
    be-11-0.ibr01.tyo79.ntwk.msn.net (104.44.17.134)  302.592 ms  297.613 ms
13  be-10-0.ibr02.tyo79.ntwk.msn.net (104.44.17.192)  420.411 ms
    be-6-0.ibr02.tyo30.ntwk.msn.net (104.44.17.183)  293.116 ms
    be-10-0.ibr02.tyo79.ntwk.msn.net (104.44.17.192)  299.700 ms
14  be-6-0.ibr02.tyo30.ntwk.msn.net (104.44.17.183)  225.740 ms
    be-5-0.ibr01.tyo30.ntwk.msn.net (104.44.17.191)  282.347 ms  296.943 ms
15  be-4-0.ibr01.sn1.ntwk.msn.net (104.44.17.72)  306.734 ms
    be-8-0.ibr02.sn1.ntwk.msn.net (104.44.17.74)  225.425 ms *
16  be-3-0.ibr02.atl30.ntwk.msn.net (104.44.19.114)  216.163 ms
    be-10-0.ibr01.atl30.ntwk.msn.net (104.44.18.220)  230.636 ms
    be-3-0.ibr02.atl30.ntwk.msn.net (104.44.19.114)  215.388 ms
17  * be-6-0.ibr01.bn6.ntwk.msn.net (104.44.17.230)  245.146 ms
    be-6-0.ibr02.bn6.ntwk.msn.net (104.44.17.232)  271.480 ms
18  be-6-0.ibr01.bn6.ntwk.msn.net (104.44.17.230)  297.484 ms
    be-6-0.ibr02.bn6.ntwk.msn.net (104.44.17.232)  307.058 ms
    be-2-0.ibr03.bl20.ntwk.msn.net (104.44.19.5)  221.512 ms
19  be-2-0.ibr04.bl20.ntwk.msn.net (104.44.19.153)  277.177 ms
    ae160-0.icr01.bl20.ntwk.msn.net (104.44.22.210)  299.582 ms  215.131 ms
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
31  * * *
32  * * *
33  * * *
34  * * *
35  * * *
36  * * *
37  * * *
38  * * *
39  * * *
40  * * *
41  * * *
42  * * *
43  * * *
```

(2)

```
Last login: Wed Feb 26 09:50:09 on ttys000
[jingjing@jingjingdeMacBook-Pro ~ % 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 E2D3C916F6DEEAC73294E8268FB5885044A833FC5459588F4A9184CF
  C41A5766

  whois:        whois.verisign-grs.com

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

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

# 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: 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#clientDeleteProhi
bited
    Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferP
rohibited
    Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhi
bited
    Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhi
bited
    Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferP
rohibited
    Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhi
bited
    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: 2020-02-26T01:58:23Z <<<

# whois.markmonitor.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#clientUpdatePro
hibited)
Domain Status: clientTransferProhibited (https://www.icann.org/epp#clientTransfe
rProhibited)
Domain Status: clientDeleteProhibited (https://www.icann.org/epp#clientDeletePro
hibited)
Domain Status: serverUpdateProhibited (https://www.icann.org/epp#serverUpdatePro
hibited)
Domain Status: serverTransferProhibited (https://www.icann.org/epp#serverTransfe
rProhibited)
Domain Status: serverDeleteProhibited (https://www.icann.org/epp#serverDeletePro
hibited)
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/w
hois/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/t
encent.com
Name Server: ns1.qq.com
Name Server: ns3.qq.com
Name Server: ns4.qq.com
Name Server: ns2.qq.com
DNSSEC: unsigned
URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/
>>> Last update of WHOIS database: 2020-02-25T17:59:11-0800 <<<

jingjing@jingjingdeMacBook-Pro ~ %
```