

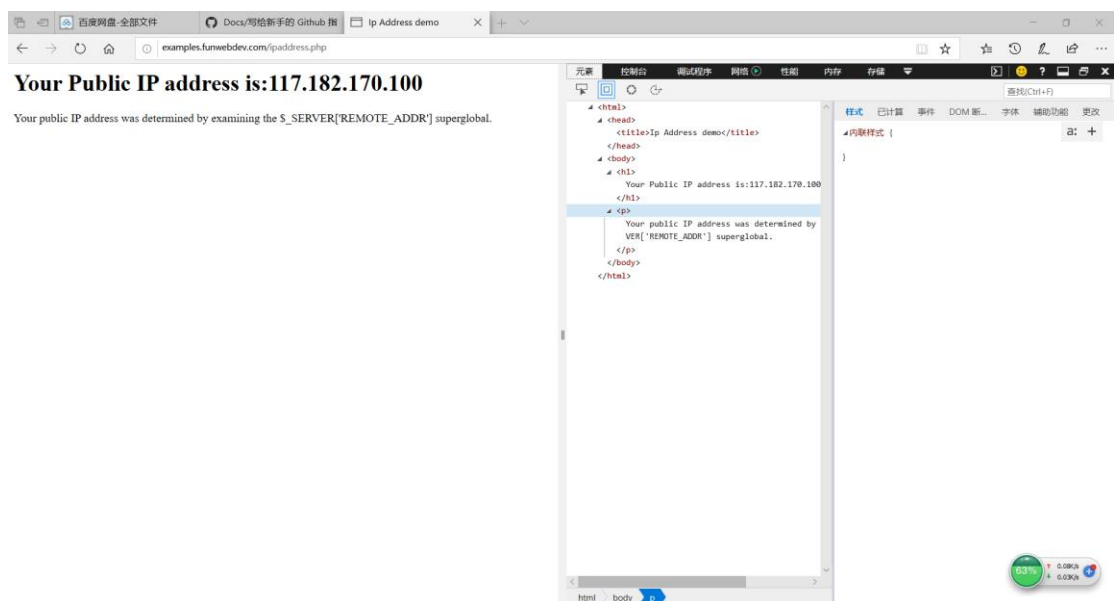
Lab0

1. 我的 IP 地址

无线局域网适配器 WLAN:

```
连接特定的 DNS 后缀 . . . . . : bbrouter
IPv6 地址 . . . . . : 2409:8a5c:1018:9b10:f9f1:125f:acc3:695d
临时 IPv6 地址. . . . . : 2409:8a5c:1018:9b10:ad1a:ef7a:3c0c:234d
本地链接 IPv6 地址. . . . . : fe80::f9f1:125f:acc3:695d%3
IPv4 地址 . . . . . : 192.168.1.6
子网掩码 . . . . . : 255.255.255.0
默认网关. . . . . : fe80::1%3
                  192.168.1.1
```

2. 分析 Microsoft Edge 的网页组成部分



3.1) 查询 baidu.com 的 A 地址记录

```
PS C:\Users\86159> nslookup baidu.com
服务器:  YHTC_GW.bbrouter
Address:  192.168.1.1

非权威应答:
名称:     baidu.com.bbrouter
Address:  218.204.57.254
```

3.2) 查询 **baidu.com** 的域名服务器

```
PS C:\Users\86159> nslookup -qt=ns baidu.com
服务器:  YHTC_GW.bbrouter
Address:  192.168.1.1

非权威应答:
baidu.com      nameserver = ns4.baidu.com
baidu.com      nameserver = ns7.baidu.com
baidu.com      nameserver = ns2.baidu.com
baidu.com      nameserver = ns3.baidu.com
baidu.com      nameserver = dns.baidu.com
```

3.3) 使用授权服务器查询 **baidu.com** 的 IP 地址

```
PS C:\Users\86159> nslookup baidu.com ns4.baidu.com
服务器:  UnKnown
Address:  14.215.178.80
```

```
名称:     baidu.com
Addresses: 39.156.69.79
          220.181.38.148
```

```
PS C:\Users\86159> nslookup baidu.com ns7.baidu.com
服务器:  UnKnown
Address:  180.76.76.92
```

```
DNS request timed out.
        timeout was 2 seconds.
```

```
名称:     baidu.com
Addresses: 220.181.38.148
          39.156.69.79
```

```
PS C:\Users\86159> nslookup baidu.com ns3.baidu.com
服务器:  UnKnown
Address:  112.80.248.64
```

```
名称:     baidu.com
Addresses: 39.156.69.79
          220.181.38.148
```

```
PS C:\Users\86159> nslookup baidu.com dns.baidu.com
服务器:  UnKnown
Address:  202.108.22.220
```

```
名称:     baidu.com
Addresses: 39.156.69.79
          220.181.38.148
```

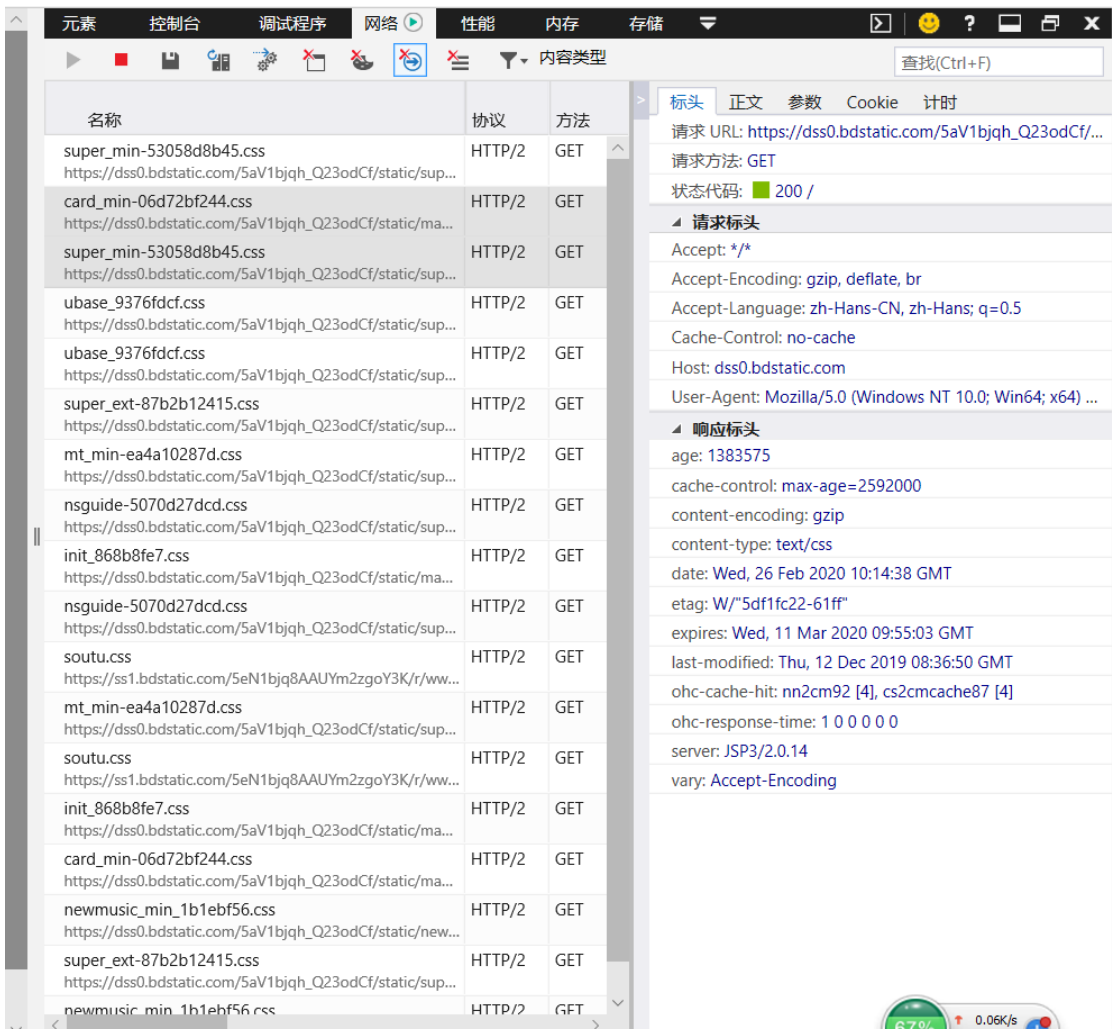
3.4) 查询 114.114.114.114 匹配的主机名

```
PS C:\Users\86159> nslookup 114.114.114.114
服务器: nsc0.gxnnptt.net.cn
Address: 202.103.224.68

名称: public1.114dns.com
Address: 114.114.114.114

PS C:\Users\86159>
```

4.观察 HTTP 标头



5.1) 追踪发往 microsoft.com 的数据包

(抱歉，总是会存在超时情况，以下是超时最少的情况)

```
PS C:\Users\86159> tracert microsoft.com
```

通过最多 30 个跃点跟踪

到 microsoft.com [40.76.4.15] 的路由:

```
 1  1116 ms    1 ms    1 ms  YHTC_GW.bbrouter [192.168.1.1]
 2    3 ms    3 ms   10 ms  10.88.0.1
 3   14 ms    9 ms    7 ms  221.180.70.121
 4   11 ms    9 ms    7 ms  218.204.2.57
 5    8 ms    7 ms    7 ms  218.204.2.10
 6    9 ms    7 ms    8 ms  221.183.19.89
 7   17 ms   20 ms   17 ms  221.183.11.33
 8   24 ms   18 ms   17 ms  221.176.24.158
 9   50 ms     *    53 ms  221.176.24.58
10   75 ms     *    58 ms  221.183.30.146
11   56 ms   62 ms   57 ms  223.118.2.202
12   87 ms   83 ms   89 ms  223.119.0.174
13  144 ms  212 ms  321 ms  ae26-0.ibr01.hkg31.ntwk.msn.net [104.44.237.197]
14  513 ms  609 ms  406 ms  be-120-0.ibr02.hkg31.ntwk.msn.net [104.44.11.141]
15  324 ms  404 ms    *    be-10-0.ibr02.tyo79.ntwk.msn.net [104.44.17.192]
16  363 ms    *    *    be-6-0.ibr02.tyo30.ntwk.msn.net [104.44.17.183]
17  391 ms    *   324 ms  be-9-0.ibr02.lax30.ntwk.msn.net [104.44.18.43]
18  350 ms  303 ms  302 ms  be-8-0.ibr02.sn1.ntwk.msn.net [104.44.17.74]
19  368 ms  303 ms    *    be-3-0.ibr02.atl30.ntwk.msn.net [104.44.19.114]
20  333 ms  404 ms  405 ms  be-6-0.ibr02.bn6.ntwk.msn.net [104.44.17.232]
21  341 ms  303 ms  301 ms  be-2-0.ibr04.bl20.ntwk.msn.net [104.44.19.153]
22    *    381 ms  303 ms  ae160-0.ibr01.bl20.ntwk.msn.net [104.44.22.210]
23    *    *    *    请求超时。
24    *    *    *    请求超时。
25    *    *    *    请求超时。
26    *    *    *    请求超时。
27    *    *    *    请求超时。
28    *    *    *    请求超时。
29    *    *    *    请求超时。
30    *    *    *    请求超时。
```

跟踪完成。

5.2) 利用 whois 查询 tencent.com 的信息

The screenshot shows the Whois website interface. The top navigation bar includes links for DOMAINS, WEBSITE, CLOUD, HOSTING, SERVERS, EMAIL, SECURITY, WHOIS, SUPPORT, LOGIN, and a shopping cart icon. The main content area displays the domain information for tencent.com, which was updated 17 hours ago. The domain information is organized into sections: Domain Information, Registrant Contact, and a sidebar with promotional offers for .space and .me domains, and a WordPress introduction. The Domain Information section includes details such as Domain (tencent.com), Registrar (MarkMonitor Inc.), Registered On (1998-01-14), Expires On (2021-01-12), Updated On (2019-01-12), Status (clientDeleteProhibited, clientTransferProhibited, clientUpdateProhibited, serverDeleteProhibited, serverTransferProhibited, serverUpdateProhibited), and Name Servers (ns1.qq.com, ns2.qq.com, ns3.qq.com, ns4.qq.com). The Registrant Contact section is currently empty.

Domain Information	
Domain:	tencent.com
Registrar:	MarkMonitor Inc.
Registered On:	1998-01-14
Expires On:	2021-01-12
Updated On:	2019-01-12
Status:	clientDeleteProhibited clientTransferProhibited clientUpdateProhibited serverDeleteProhibited serverTransferProhibited serverUpdateProhibited
Name Servers:	ns1.qq.com ns2.qq.com ns3.qq.com ns4.qq.com

Registrant Contact

1074464411

Registrant Contact

Organization:	Tencent Technology (shenzhen) Co.Ltd.
State:	Guang Dong
Country:	CN
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com

Administrative Contact

Organization:	Tencent Technology (shenzhen) Co.Ltd.
State:	Guang Dong
Country:	CN
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com

Technical Contact

Organization:	Tencent Technology (shenzhen) Co.Ltd.
State:	Guang Dong
Country:	CN
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com



Raw Whois Data

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#clientUpdateProhib>)
 Domain Status: clientTransferProhibited (<https://www.icann.org/epp#clientTransferPr>)
 Domain Status: clientDeleteProhibited (<https://www.icann.org/epp#clientDeleteProhib>)
 Domain Status: serverUpdateProhibited (<https://www.icann.org/epp#serverUpdateProhib>)
 Domain Status: serverTransferProhibited (<https://www.icann.org/epp#serverTransferPr>)
 Domain Status: serverDeleteProhibited (<https://www.icann.org/epp#serverDeleteProhib>)
 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: ns3.qq.com
 Name Server: ns4.qq.com
 Name Server: ns1.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: 2020-02-26T05:04:52-0800 <<<

For more information on WHOIS status codes, please visit:
<https://www.icann.org/resources/pages/epp-status-codes>

If you wish to contact this domain's Registrant, Administrative, or Technical contact, and such email address is not visible above, you may do so via our web

If you wish to contact this domain's Registrant, Administrative, or Technical contact, and such email address is not visible above, you may do so via our web form, pursuant to ICANN's Temporary Specification. To verify that you are not a robot, please enter your email address to receive a link to a page that facilitates email communication with the relevant contact(s).

Web-based WHOIS:

<https://domains.markmonitor.com/whois>

If you have a legitimate interest in viewing the non-public WHOIS details, send your request and the reasons for your request to whoisrequest@markmonitor.com and specify the domain name in the subject line. We will review that request and may ask for supporting documentation and explanation.

The data in MarkMonitor's WHOIS database is provided for information purposes, and to assist persons in obtaining information about or related to a domain name's registration record. While MarkMonitor believes the data to be accurate, the data is provided "as is" with no guarantee or warranties regarding its accuracy.

By submitting a WHOIS query, you agree that you will use this data only for lawful purposes and that, under no circumstances will you use this data to:

- (1) allow, enable, or otherwise support the transmission by email, telephone, or facsimile of mass, unsolicited, commercial advertising, or spam; or
- (2) enable high volume, automated, or electronic processes that send queries, data, or email to MarkMonitor (or its systems) or the domain name contacts (or its systems).

MarkMonitor.com reserves the right to modify these terms at any time.

By submitting this query, you agree to abide by this policy.

MarkMonitor is the Global Leader in Online Brand Protection.

MarkMonitor Domain Management(TM)
MarkMonitor Brand Protection(TM)
MarkMonitor AntiCounterfeiting(TM)
MarkMonitor AntiPiracy(TM)
MarkMonitor AntiFraud(TM)
Professional and Managed Services

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