Lab0

一、IP 地址

二、分析一个网页的组成部分

1.展开所有标签的截图
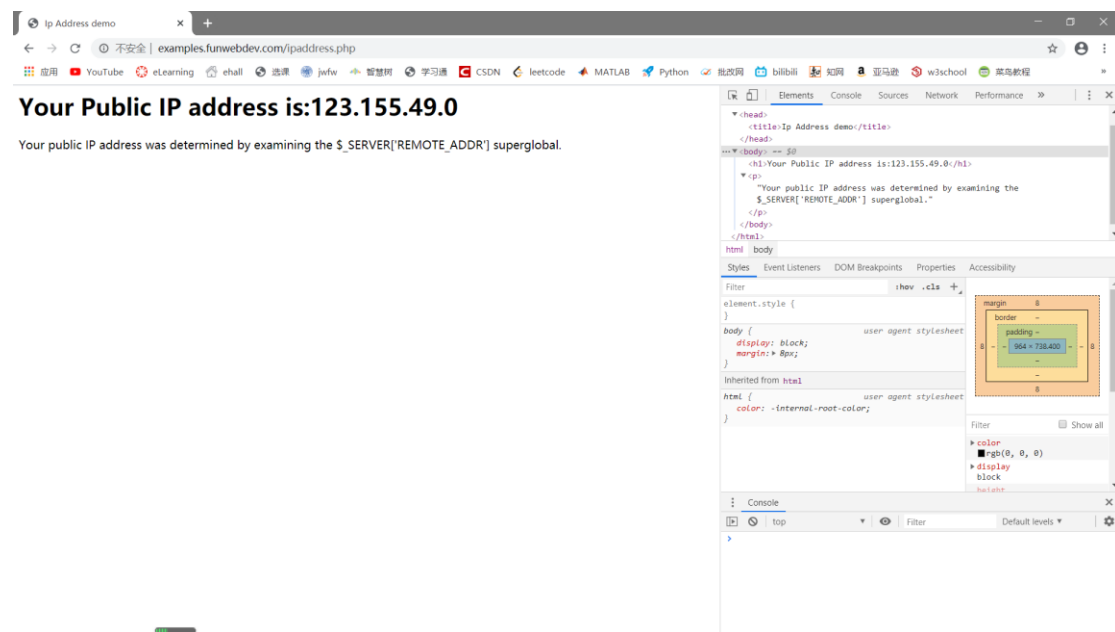
2.刷新页面的截图
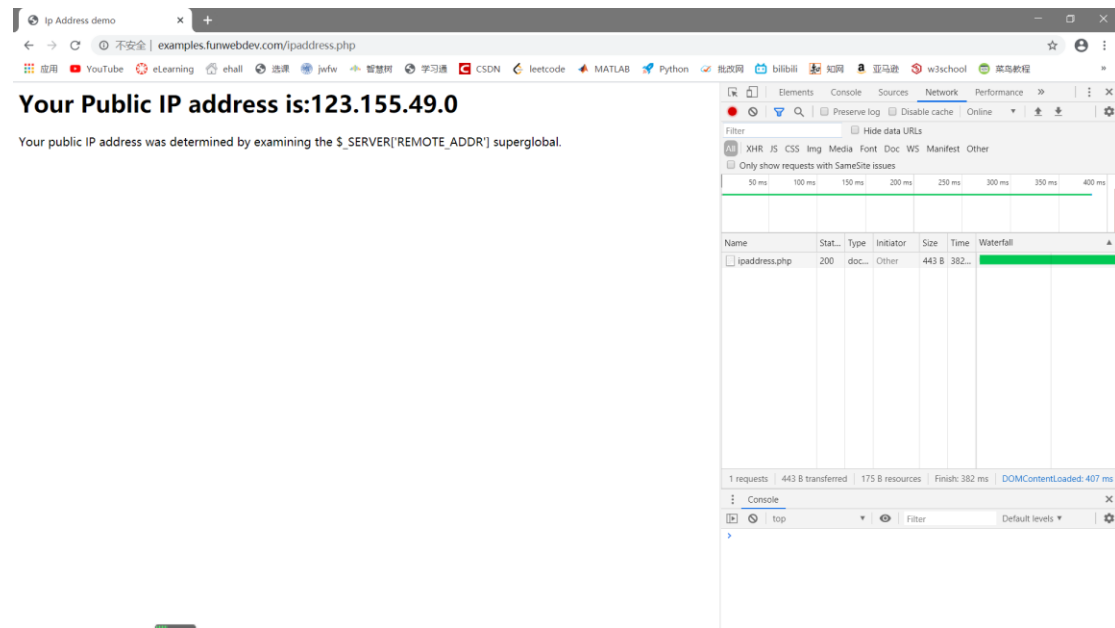
3.打开百度页面的截图

三、域名服务器

1.查询 baidu.com 的 A 地址记录截图

```
PS C:\Users\lenovo> nslookup baidu.com
服务器:   UnKnown
Address:  192.168.43.1

非权威应答:
名称:      baidu.com
Addresses:  220.181.38.148
           39.156.69.79
```
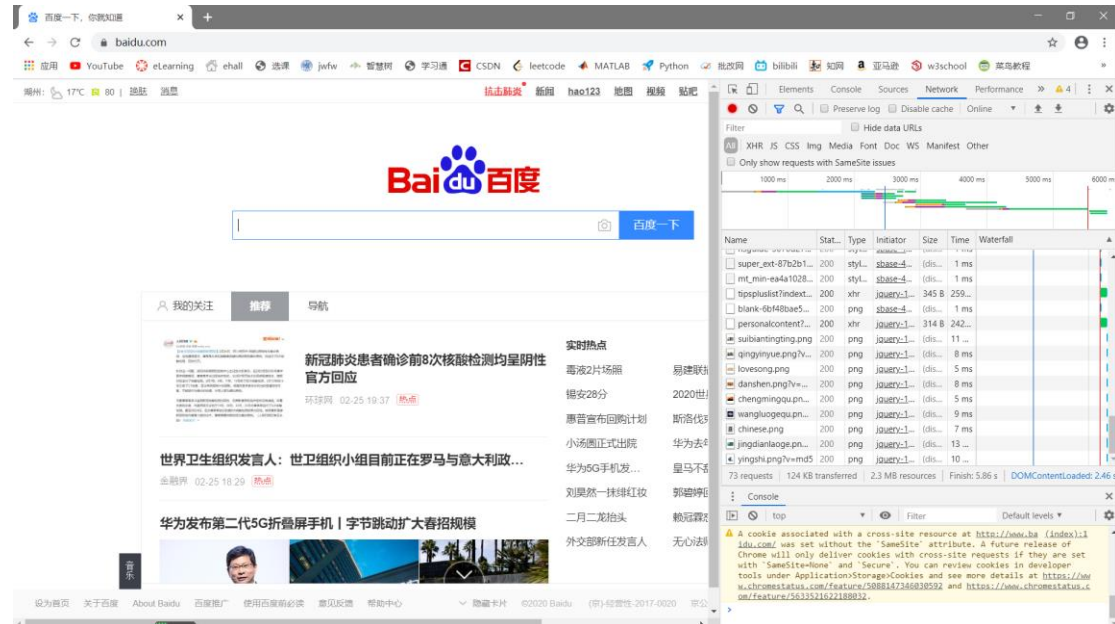
2.查询 baidu.com 的域名服务器截图

```
PS C:\Users\lenovo> nslookup -qt=ns baidu.com
服务器:   UnKnown
Address:  192.168.43.1

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

dns.baidu.com      internet address = 202.108.22.220
ns2.baidu.com      internet address = 220.181.33.31
ns3.baidu.com      internet address = 112.80.248.64
ns4.baidu.com      internet address = 14.215.178.80
ns7.baidu.com      internet address = 180.76.76.92
```

3.使用授权服务器查询 baidu.com 的 IP 地址截图

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

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

4.查询 114.114.114.114.匹配的主机名的截图

```
PS C:\Users\lenovo> nslookup 114.114.114.114
服务器:   UnKnown
Address:  192.168.43.1

名称:      public1.114dns.com
Address:  114.114.114.114
```

四、观察 HTTP 标头

user-agent 的截图

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.122 Safari/537.36

五、追踪数据包

1.跟踪发往 microsoft.com 的截图

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

通过最多 30 个跃点跟踪
到 microsoft.com [13.77.161.179] 的路由:

  1     4 ms     1 ms     1 ms  DESKTOP-8I4BTD1 [192.168.1.1]
  2     6 ms     4 ms     4 ms  123.155.48.1
  3     7 ms     4 ms     3 ms  60.12.112.113
  4     *        *        *     请求超时。
  5    26 ms    27 ms    27 ms  219.158.105.5
  6    41 ms    36 ms    37 ms  219.158.103.42
  7    39 ms    45 ms    40 ms  219.158.107.94
  8    46 ms    45 ms    46 ms  219.158.10.54
  9    52 ms    55 ms    59 ms  219.158.39.26
 10    53 ms    60 ms    46 ms  ae26-0.icr01.hkg31.ntwk.msn.net [104.44.237.197]
 11   225 ms   204 ms   203 ms  be-120-0.ibr02.hkg31.ntwk.msn.net [104.44.11.141]
 12   201 ms   205 ms   207 ms  be-10-0.ibr02.tyo79.ntwk.msn.net [104.44.17.192]
 13   202 ms   197 ms   201 ms  be-5-0.ibr02.pdx30.ntwk.msn.net [104.44.19.85]
 14   195 ms   195 ms   194 ms  be-4-0.ibr04.mwh01.ntwk.msn.net [104.44.16.68]
 15   181 ms   182 ms   181 ms  ae161-0.icr01.mwh01.ntwk.msn.net [104.44.21.164]
 16     *        *        *     请求超时。
 17     *        *        *     请求超时。
 18     *        *        *     请求超时。
 19     *        *        *     请求超时。
 20     *        *        *     请求超时。
 21     *        *        *     请求超时。
 22     *        *        *     请求超时。
 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。
```

2.利用 whois 查询 tencent.com 的截图

tencent.com

Domain Information

Domain:	tencent.com
Registrar:	MarkMonitor Inc.
Registered On:	1998-09-14
Expires On:	2021-09-12
Updated On:	2019-08-12
Status:	clientDeleteProhibited clientTransferProhibited clientUpdateProhibited serverDeleteProhibited serverTransferProhibited serverUpdateProhibited
Name Servers:	ns1.qq.com ns2.qq.com ns3.qq.com ns4.qq.com

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#clientUpdateProhibited)
Domain Status: clientTransferProhibited (https://www.icann.org/epp#clientTransferProhibit
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#serverTransferProhibit
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/tenc
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.c
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.co
Name Server: ns4.qq.com
Name Server: ns1.qq.com
Name Server: ns3.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: 2020-02-19T02:25:08-0800 <<<

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
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

Visit MarkMonitor at https://www.markmonitor.com
Contact us at +1.8007459229
In Europe, at +44.02032062220
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