

Lab0

1. ip 地址

Your Public IP address is:101.94.138.96

2.分析网页

Your Public IP address is:101.94.138.96

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

The screenshot shows the browser's developer tools. The 'Elements' panel displays the HTML structure: a head with a title 'Ip Address demo' and a body with a paragraph containing the public IP address '101.94.138.96'. The 'Styles' panel shows the default user-agent style for the 'html' element, which is 'display: block;'. A box model diagram is also visible, showing margin, border, padding, and the content area with dimensions 725.333 x 587.333.

不同页面 Network，其中左为所给链接网页，右为百度。

The image shows two side-by-side screenshots of the 'Network' panel in a browser's developer tools. The left panel shows the network activity for a specific page, with a single request 'ipaddress.php' of size 526 B and time 451 ms. The right panel shows the network activity for Baidu.com, displaying a large number of requests (49) including various scripts, stylesheets, and images, with a total size of 81.5 kB and a total time of 714 ms.

3.输入 nslookup baidu.com 查询 A 地址得：

```
PS C:\Users\zmk> nslookup baidu.com
服务器:  public-dns-b.dnspai.com
Address:  101.198.199.200

非权威应答:
名称:     baidu.com
Addresses: 39.156.69.79
          220.181.38.148
```

输入 `nslookup -qt=ns baidu.com`，以进一步确定 `baidu.com` 的域名服务器：

```
PS C:\Users\zmk> nslookup -qt=ns baidu.com
服务器: public-dns-b.dnspai.com
Address: 101.198.199.200
```

非权威应答:

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

输入 nslookup baidu.com ns2.baidu.com 查询得:

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

查询 114.114.114.114 所匹配的主机名得:

```
PS C:\Users\zmk> nslookup 114.114.114.114
服务器: public-dns-b.dnspai.com
Address: 101.198.199.200

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

4. 观察 http 标头, 并截下 baidu.com 中的 user-agent 得:

```
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Safari/537.36
```

5. 跟踪一个从计算机发往 microsoft.com 的数据包:

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

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

  1      1 ms    <1 毫秒    <1 毫秒  192.168.1.1
  2     16 ms    3 ms      4 ms     101.95.123.6
  3      6 ms    5 ms      5 ms     101.95.39.9
  4      3 ms    3 ms      3 ms     124.74.209.137
  5      4 ms    2 ms      2 ms     101.95.120.162
  6     17 ms   18 ms     18 ms     202.97.24.166
  7     21 ms    *         19 ms     202.97.74.1
  8     30 ms   28 ms     28 ms     202.97.6.50
  9     32 ms   33 ms     34 ms     183.91.34.150
 10     44 ms    *         45 ms     ae26-0.icr01.hkg31.ntwk.msn.net [104.44.237.197]
 11    170 ms   170 ms    170 ms     be-120-0.ibr02.hkg31.ntwk.msn.net [104.44.11.141]
 12      *     180 ms    *         104.44.29.60
 13    172 ms   172 ms    *         be-5-0.ibr02.pdx30.ntwk.msn.net [104.44.19.85]
 14    170 ms   170 ms    170 ms     104.44.16.5
 15    173 ms   171 ms    169 ms     ae162-0.icr04.mwh01.ntwk.msn.net [104.44.21.170]
 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。

查询 **tencent.com** 的相关信息得：

所有者联系邮箱 Registrant E-mail	请联系当前域名注册商获取 委托阿里云购买
注册商 Sponsoring Registrar	MarkMonitor, Inc.
注册日期 Registration Date(UTC)	1998年09月14日
到期日期 Expiration Date(UTC)	2030年09月13日 <div>2030年09月13日前，域名可正常使用。请在2030年09月13日15:00前完成续费，否则域名将转入赎回期。</div>
域名状态 Domain Status	注册商设置禁止更新 (clientUpdateProhibited) ? (https://www.icann.org/epp#clientUpdateProhibited) 注册商设置禁止转移 (clientTransferProhibited) ? (https://www.icann.org/epp#clientTransferProhibited) 注册商设置禁止删除 (clientDeleteProhibited) ? (https://www.icann.org/epp#clientDeleteProhibited) 注册局设置禁止更新 (serverUpdateProhibited) ? (https://www.icann.org/epp#serverUpdateProhibited) 注册局设置禁止转移 (serverTransferProhibited) ? (https://www.icann.org/epp#serverTransferProhibited) 注册局设置禁止删除 (serverDeleteProhibited) ? (https://www.icann.org/epp#serverDeleteProhibited)
DNS服务器 Name Server	DNS1: ns1.qq.com DNS2: ns2.qq.com DNS3: ns3.qq.com DNS4: ns4.qq.com