B·使用HTP/1/协议进行通信,服务器端响应移200,成功响及
回应时间2005.12.10,周六.18:27:46
服务器使用Apache/2.0.52版本
提供服务。

最后-次修改时间为2005.12.10.周点, 18:27:46

报文是否传输完整的ETag为 526C3-f22-a8804C80 文本K度3874个字节。

连接动物的连接( Feep- Allve) 文楼型可接受 text/ "tml 语言 字符集为 150-8859-1.

PT 图为一升始没有获得平地址,所以找到IP地址的各种的。 Ti= SIRET RTTi.

因被从本地形始入断向上选代·

找到根主机,就到缓存了目标,地址的主机.

找到目标主机后,经过RTTO时间,建立TCP连接,再过RTTO传文件。

故 T= TH RTTo+RTTo

T= 呈RTTi+2RTTo

# PIB SMTP中的From是

在SMTP协议回确定邮件差额是哪个SMTP服务器的发的 是哪个SMTP服务器的发的 但邮件报文自身的from是发件人的自和

4. P18. a. 是一个用来查询城名是否已被注册,以及注册城名的详细信息的数据库.

b. 搜mihayou.com

Mth www.mihayou.com

ws 服务器: f191ns1.dns.pod.net-.

112.80.181.45

NS服务器 2: f191nsz.dnspod.net-

58-254, 121-11

用65是 whois ellamo.?

## 3-p18

C

```
elysia@Nanxi:/etc/apt$ dig www.bjfuacm.com A
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfuacm.com A
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17061
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfuacm.com.
                                 IN
                                         Α
;; ANSWER SECTION:
www.bjfuacm.com.
                   600
                                IN A
                                              121.36.88.156
;; Query time: 171 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 21:01:55 CST 2022
;; MSG SIZE rcvd: 60
elysia@Nanxi:/etc/apt$ dig www.bjfuacm.com MX
```

```
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfuacm.com MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 54385
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfuacm.com.
                              IN
;; AUTHORITY SECTION:
                      600 IN
                                     SOA
bjfuacm.com.
                                              dns15.hichina.com. hostmaster.hichina.com. 2022052002 3600 1200 86400 600
;; Query time: 207 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 21:02:29 CST 2022
;; MSG SIZE rcvd: 105
```

```
elysia@Nanxi:/etc/apt$ dig www.bjfuacm.com NS
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfuacm.com NS
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 36680
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfuacm.com.
                            IN
;; AUTHORITY SECTION:
               600 IN SOA
bjfuacm.com.
                                           dns15.hichina.com. hostmaster.hichina.com. 2022052002 3600 1200 86400 600
;; Query time: 431 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 21:02:51 CST 2022
;; MSG SIZE rcvd: 105
```

```
elysia@Nanxi:/etc/apt$ dig www.bjdu.com MX
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjdu.com MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19720
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
                        IN
;www.bjdu.com.
                             MX
;; ANSWER SECTION:
                60 IN
www.bjdu.com.
                             CNAME b.17986.net.
;; AUTHORITY SECTION:
                  180 IN SOA ns3.dnsv2.com. level3dnsadmin.dnspod.com. 1663333225 3600 180 1209600 180
17986.net.
;; Query time: 319 msec
;; SERVER: 8.8.4.4#53(8.8.4.4)
;; WHEN: 五 9月 16 21:04:05 CST 2022
;; MSG SIZE rcvd: 134
elysia@Nanxi:/etc/apt$ dig www.bjfu.com A
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfu.com A
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19315</p>
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfu.com.
                                          IN
                                                    Α
;; ANSWER SECTION:
www.bjfu.com.
                               600
                                         IN
                                                    CNAME
                                                              overdue.aliyun.com.
overdue.aliyun.com. 300
                                          IN
                                                               170.33.9.230
                                                    Α
;; Query time: 363 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 21:03:33 CST 2022
;; MSG SIZE rcvd: 86
elysia@Nanxi:/etc/apt$ dig www.bjfuacm.com NS
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfuacm.com NS
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 36680
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfuacm.com.
```

;; AUTHORITY SECTION:

bjfuacm.com. 600 IN SOA dns15.hichina.com. hostmaster.hichina.com. 2022052002 3600 1200 86400 600

;; Query time: 431 msec

;; SERVER: 8.8.8.8#53(8.8.8.8)

;; WHEN: 五 9月 16 21:02:51 CST 2022

;; MSG SIZE rcvd: 105

```
elysia@Nanxi:/etc/apt$ dig www.sohu.com MX
; <<>> DiG 9.16.15-Ubuntu <<>> www.sohu.com MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64953
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.sohu.com.
                            IN
                                   MX
;; ANSWER SECTION:
                                   CNAME
                                        www.sohu.com.dsa.dnsv1.com.
www.sohu.com.dsa.dnsv1.com. 325 IN
                                  CNAME qt0t6l4k.e0.sched.ovscdns.com.
;; AUTHORITY SECTION:
                   25 IN SOA
ovscdns.com.
                                          ns1.ovscdns.com. webmaster.ovscdns.com. 1341562830 300 600 86400 300
;; Query time: 79 msec
;; SERVER: 8.8.4.4#53(8.8.4.4)
;; WHEN: 五 9月 16 21:04:55 CST 2022
;; MSG SIZE rcvd: 168
elysia@Nanxi:/etc/apt$ dig www.bjdu.com MX
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjdu.com MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19720
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjdu.com.
;; ANSWER SECTION:
             60 IN CNAME b.17986.net.
www.bjdu.com.
;; AUTHORITY SECTION:
                   180 IN SOA ns3.dnsv2.com. level3dnsadmin.dnspod.com. 1663333225 3600 180 1209600 180
17986.net.
;; Query time: 319 msec
:: SERVER: 8.8.4.4#53(8.8.4.4)
;; WHEN: 五 9月 16 21:04:05 CST 2022
;; MSG SIZE rcvd: 134
elysia@Nanxi:/etc/apt$ dig www.bjfu.com A
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfu.com A
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19315
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfu.com.
                                             IN
                                                        Α
```

ANSWED SECTION.

```
www.bjfu.com. 600 IN CNAME overdue.aliyun.com.
overdue.aliyun.com. 300 IN A 170.33.9.230

;; Query time: 363 msec

;; SERVER: 8.8.8.8#53(8.8.8.8)
```

;; WHEN: 五 9月 16 21:03:33 CST 2022

;; MSG SIZE rcvd: 86

## f

用whois数据库查询域名是否已被注册,以及注册域名的详细信息,用nslookup确定域名的IP地址、 DNS服务器地址等信息。

## g

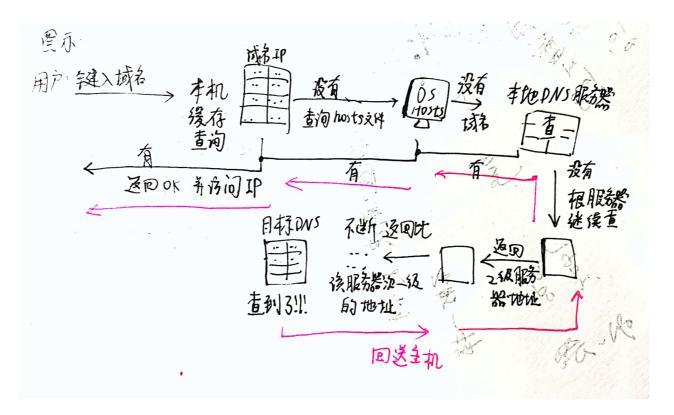
大家都会了的话,就能通过nslookup查看自己服务器的部署情况,IP地址情况,从而围绕他们做出恰当的安全防备;而且既然攻击者可以用nslookup查到本地服务器的信息,我们可以反过来利用它分析攻击者的源地址,然后进行报警或增加防火墙。

# 5-p21

能,在本地DNS服务器中用dig命令查询欲查询的外部站点,如果它刚被访问过,则其站点信息将被 DNS缓存,这样的话查询耗时会很短;否则查询时间很长。

## 6

query报文会在首部写明自己是query报文,会有一句Response:Message is a query,而reply报文也会有一句注明自己是reply报文的语句:Response:Message is a response。



7

a

i

答案: 202.204.112.10

```
elysia@Nanxi:/etc/apt$ dig www.bjfu.edu.cn
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfu.edu.cn
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 46080
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
:: OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfu.edu.cn.
                               IN
                                       Α
;; ANSWER SECTION:
www.bjfu.edu.cn.
                 21516 IN A
                                               202.204.112.10
;; Query time: 48 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 16:21:22 CST 2022
;; MSG SIZE rcvd: 60
```

### ii

北林域名服务器名: beilin.bjfu.edu.cn.

邮件服务器名: wlzhx.bjfu.edu.cn.

```
elysia@Nanxi:/etc/apt$ dig www.bjfu.edu.cn MX
; <<>> DiG 9.16.15-Ubuntu <<>> www.bjfu.edu.cn MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 46116
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.bjfu.edu.cn.
                             IN MX
;; AUTHORITY SECTION:
                     1800 IN SOA
bjfu.edu.cn.
                                            beilin.bjfu.edu.cn. wlzhx.bjfu.edu.cn. 2022091401 10800 3600 604800 86400
;; Query time: 103 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 16:23:11 CST 2022
;; MSG SIZE rcvd: 93
```

中农域名服务器名: ns.cau.edu.cn.

邮件服务器名: root.ns.cau.edu.cn.

```
elysia@Nanxi:/etc/apt$ dig www.cau.edu.cn MX
; <<>> DiG 9.16.15-Ubuntu <<>> www.cau.edu.cn MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56671
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;www.cau.edu.cn.
;; AUTHORITY SECTION:
                     1800 IN SOA ns.cau.edu.cn. root.ns.cau.edu.cn. 2100000314 10800 300 604800 86400
cau.edu.cn.
;; Query time: 83 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 16:28:02 CST 2022
;; MSG SIZE rcvd: 87
```

## iii

NS: ns.cau.edu.cn, nsb.cau.edu.cn

## 邮件服务器记录:

- 20 mx3.cau.edu.cn.
- 10 mx2.cau.edu.cn.
- 10 mx1.cau.edu.cn.
- 20 mx4.cau.edu.cn.

```
elysia@Nanxi:/etc/apt$ dig cau.edu.cn MX cau.edu.cn NS
; <<>> DiG 9.16.15-Ubuntu <<>> cau.edu.cn MX cau.edu.cn NS
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51786
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;cau.edu.cn.
                             IN MX
;; ANSWER SECTION:
cau.edu.cn.
                     3600
                                     MX
                                             20 mx3.cau.edu.cn.
                             IN
cau.edu.cn.
                     3600
                             IN
                                     MX
                                             10 mx2.cau.edu.cn.
cau.edu.cn.
                                     MX
                                            10 mx1.cau.edu.cn.
                     3600
                             IN
cau.edu.cn.
                                             20 mx4.cau.edu.cn.
                     3600
                             IN
                                     MX
;; Query time: 111 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 16:35:24 CST 2022
;; MSG SIZE rcvd: 119
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 5894
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;cau.edu.cn.
                              IN
                                     NS
;; ANSWER SECTION:
cau.edu.cn.
                       3600
                              IN NS
                                               ns.cau.edu.cn.
cau.edu.cn.
               3600 IN
                                   NS
                                               nsb.cau.edu.cn.
;; Query time: 75 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: 五 9月 16 16:35:25 CST 2022
:: MSG SIZE rcvd: 74
```

```
</body></html>elysia@Nanxi:/etc/apt$ curl -I www.bjfu.edu.cn
```

HTTP/1.1 200 OK

Date: Fri, 16 Sep 2022 08:43:51 GMT

Server: Server

X-Frame-Options: SAMEORIGIN, SAMEORIGIN

Last-Modified: Thu, 15 Sep 2022 10:32:22 GMT

ETag: "5e64-5e8b4c2b5b980"

Accept-Ranges: bytes

Content-Length: 24164

Content-Type: text/html

#### C