HỌC VIỆN CÔNG NGHỆ BƯU CHÍNH VIỄN THÔNG KHOA AN TOÀN THÔNG TIN



MÔN HỌC: AN TOÀN MẠNG BÁO CÁO THỰC HÀNH BÀI 1

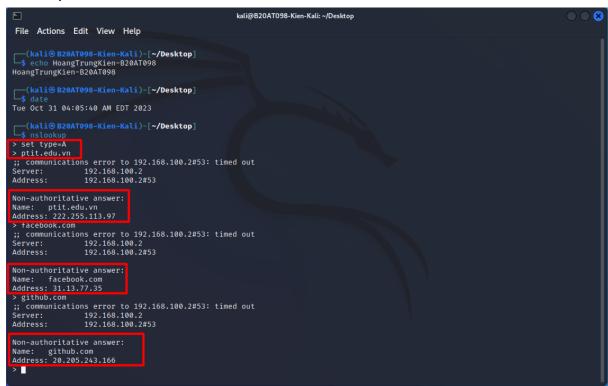
Giảng viên: Hoàng Xuân Dậu

Sinh viên: Hoàng Trung Kiên – B20DCAT098

1. Đổi tên máy kali



- 2. Thực hành
- a, Tìm thông tin về tên miền sử dụng nslookup Khởi động nslookup trong cửa sổ terminal
- Tìm địa chỉ IP của các tên miền



- Tìm máy chủ DNS của các tên miền

```
-(kali⊛B20AT098-Kien-Kali)-[~/Desktop]
Tue Oct 31 04:07:57 AM EDT 2023
___(kali⊗B20AT098-Kien-Kali)-[~/Desktop]
$ echo HoangTrungKien-B20AT098
HoangTrungKien-B20AT098
 [──(kali⊕B20AT098-Kien-Kali)-[~/Desktop]
> set type=NS
> ptit.edu.vn
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2#53
Non-authoritative answer:
                       nameserver = ns1.vdconline.vn.
nameserver = ns2.vdconline.vn.
ptit.edu.vn
ptit.edu.vn
Authoritative answers can be found from:
Authoritative answer:

> facebook.com

;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2#53
Non-authoritative answer:
Non-authoritative answer:
facebook.com nameserver = a.ns.facebook.com.
facebook.com nameserver = d.ns.facebook.com.
facebook.com nameserver = c.ns.facebook.com.
facebook.com nameserver = b.ns.facebook.com.
Authoritative answers can be found from:
> github.com
;; communications error to 192.168.100.2#53: timed out
                            192.168.100.2
192.168.100.2#53
Server:
Non-authoritative answer:
                      nameserver = ns-1283.awsdns-32.org.
nameserver = dns2.p08.nsone.net.
nameserver = ns-1707.awsdns-21.co.uk
nameserver = dns1.p08.nsone.net.
github.com
github.com
github.com
 github.com
```

- Tìm máy chủ email của các tên miền

```
> set type=mx
> ptit.edu.vn
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2#53
Non-authoritative answers can be found from:
> facebook.com
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2
Address: 192.168.100.2
Address: 192.168.100.2#53
Non-authoritative answers can be found from:
> github.com
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2#53
Address: 192.168.100.2#53
Non-authoritative answers can be found from:
> github.com
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2#53
Non-authoritative answer:
github.com mail exchanger = 10 alt4.aspmx.l.google.com.
github.com mail exchanger = 10 alt3.aspmx.l.google.com.
github.com mail exchanger = 10 alt3.aspmx.l.google.com.
github.com mail exchanger = 5 alt1.aspmx.l.google.com.
github.com mail exchanger = 5 alt1.aspmx.l.google.com.
github.com mail exchanger = 5 alt1.aspmx.l.google.com.
Authoritative answers can be found from:
> I
```

- Tìm tên miền tương ứng với địa chỉ IP

```
kali@B20AT098-Kien-Kali: ~/Desktop
File Actions Edit View Help
(kali@B20AT098-Kien-Kali)-[~/Desktop]
Tue Oct 31 04:14:52 AM EDT 2023
(kali® B20AT098-Kien-Kali)-[~/Desktop]
s nslookup
> set type=PTR
> 64.233.187.26
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2#53
Server:
Address:
Non-authoritative answer:
26.187.233.64.in-addr.arpa
                                          name = tj-in-f26.1e100.net.
Authoritative answers can be found from: > 222.255.113.97
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2#53
Non-authoritative answer: 97.113.255.222.in-addr.arpa
                                         name = static.vnpt.vn.
> 31.13.77.35
;; communications error to 192.168.100.2#53: timed out
Server: 192.168.100.2
Address: 192.168.100.2#53
Non-authoritative answer: 35.77.13.31.in-addr.arpa
                                            name = edge-star-mini-shv-01-hkt1.facebook.com.
Authoritative answers can be found from:
```

2. Tìm thông tin về tên miền sử dụng các công cụ dig, dnsenum, dnsrecon và nmap.

Trang ptit.edu.vn

```
s dnsenum ptit.edu.vn
dnsenum VERSION:1.2.6
                                                                                                           IN
                                                                                                                                           222.255.113.97
ptit.edu.vn.
                                                                                                                                           14.225.24.84
ns1.vdconline.vn.
                                                                                                                                           14.225.24.83
ptit-edu-vn.mail.eo.outlook.com.
ptit-edu-vn.mail.eo.outlook.com.
ptit-edu-vn.mail.eo.outlook.com.
ptit-edu-vn.mail.eo.outlook.com.
                                                                                                                                           52.101.132.30
                                                                                                           IN
                                                                                                                                           52.101.137.0
52.101.132.28
                                                                                                           IN
Trying Zone Transfer for ptit.edu.vn on ns2.vdconline.vn ... AXFR record query failed: REFUSED
Trying Zone Transfer for ptit.edu.vn on ns1.vdconline.vn ... AXFR record query failed: REFUSED
                                                                                                CNAME
CNAME
A
A
A
A
A
A
A
A
                                                                                      IN
IN
IN
IN
IN
IN
IN
autodiscover.outlook.com.
atod-g2.tm-4.office.com.
autod.ms-acdc-autod.office.com.
                                                                                                                atod-g2.tm-4.office.com.
autod.ms-acdc-autod.office.com.
52.98.50.24
                                                                                                                52.98.40.40
40.100.55.8
52.98.71.56
222.255.113.97
203.162.88.104
autod.ms-acdc-autod.office.com.
autod.ms-acdc-autod.office.com.
autod.ms-acdc-autod.office.com.
it.ptit.edu.vn.
jobs.ptit.edu.vn.
mail.ptit.edu.vn.
portal.ptit.edu.vn.
www.ptit.edu.vn.
                                                                                      IN
IN
IN
                                                                                                                 123.30.182.167
222.255.113.97
222.255.113.97
 203.162.88.0/24
222.255.113.0/24
```

0 results out of 768 IP addresses.

done.

Trang web kenh14.vn

```
| Rali@B20AT098-Kien-Kali - |
```

```
(kali® B20AT098-Kien-Kali)-[~]
(kali@B20AT098-Kien-Kali)-[~]
$ dnsenum kenh14.vn
dnsenum VERSION:1.2.6
                                                                                                                       169.62.159.227
210.245.87.125
123.30.51.247
ns6.synerfy.vn.
ns8.synerfy.vn.
ns7.synerfy.vn.
                                                                                                                        142.250.152.26
64.233.171.27
142.250.141.27
142.250.115.27
aspmx5.googlemail.com.
                                                                                            IN
IN
IN
IN
IN
aspmx4.googlemail.com.
alt1.aspmx.l.google.com.
aspmx3.googlemail.com.
aspmx.l.google.com.
alt2.aspmx.l.google.com.
aspmx2.googlemail.com.
                                                                                                                         74.125.204.26
142.250.115.26
                                                                                                                         142.250.141.27
Trying Zone Transfer for kenh14.vn on ns6.synerfy.vn \dots AXFR record query failed: NOTIMP
Trying Zone Transfer for kenh14.vn on ns8.synerfy.vn \dots AXFR record query failed: NOTIMP
Trying Zone Transfer for kenh14.vn on ns7.synerfy.vn \dots AXFR record query failed: NOTIMP
mail.kenh14.vn.
ghs.google.com.
                                                                                            IN CNAME
IN A
                                                                                                                        ghs.google.com.
172.217.24.243
search.kenh14.vn.
                                                                                                       A
CNAME
                                                                                                                         123.30.151.104
www.kenh14.vn.
kenh14.vn.
                                                                                                                        kenh14.vn.
14.225.199.133
  14.225.199.0/24
123.30.151.0/24
```

```
kali@B20AT098-Kien-Kali: ~
           File Actions Edit View Help
(**Isti@ B20AT098-Kien-Kali)-[~]

dnsrecon -d kenh14.vn

(*) std: Performing General Enumeration against: kenh14.vn ...

Wildcard resolution is enabled on this domain

If it is resolving to 222.255.27.49

All queries will resolve to this list of addresses!!

DNSSEC is not configured for kenh14.vn

SOA ns6.synerfy.vn 169.62.159.227

NS ns6.synerfy.vn 169.62.159.227

Bind Version for 169.62.159.227 "gdnsd"

NS ns8.synerfy.vn 20.245.87.125

Bind Version for 210.245.87.125 "gdnsd"

NS ns7.synerfy.vn 123.30.51.247 "gdnsd"

MX aspmx3.googlemail.com 142.250.115.27

MX aspmx3.googlemail.com 142.250.151.27

MX aspmx2.googlemail.com 142.250.152.26

MX aspmx2.googlemail.com 142.250.152.26

MX aspmx2.googlemail.com 64.233.171.26

MX aspmx3.googlemail.com 64.233.171.26

MX aspmx3.googlemail.com 64.233.171.26

MX aspmx3.googlemail.com 2607.f8b0.4003.1504:1b

MX aspmx3.googlemail.com 2607.f8b0.4003.1504:1b

MX aspmx3.googlemail.com 2607.f8b0.4003.c55:1b

MX aspmx4.googlemail.com 2607.f8b0.4003.c55:1b

MX aspmx4.googlemail.com 2607.f8b0.4003.c15:1b

MX aspmx4.googlemail.com 2607.f8b0.4003.c05:1a

MX aspmx4.googlemail.com 2607.f8b0.4003.c15:1b

MX aspmx4.googlemail.com 2607.f8b0.4003.c15:1cl

MX aspmx4.googlemail.com 2
      Tue Oct 31 07:39:47 PM +07 2023
      (Ratio B20A1098-Rien-Rati)-[-]

$ nmap -p53 -T4 --script dns-brute www.kenh14.vn

Starting Nmap 7.93 ( https://nmap.org ) at 2023-10-31 19:40 +07

Nmap scan report for www.kenh14.vn (14.225.199.133)

Host is up (0.023s latency).

rDNS record for 14.225.199.133: static.vnpt.vn
        PORT STATE SERVICE
53/tcp filtered domain
                   ost script results:

dns-brute:

DNS Brute-force hostnames:

app.kenh14.vn - 123.30.151.82

app.kenh14.vn - 14.225.10.15

mail.kenh14.vn - 142.251.220.115

mail.kenh14.vn - 142.251.220.115

www.kenh14.vn - 14.225.199.133

*A: 222.255.27.49
         Nmap done: 1 IP address (1 host up) scanned in 28.34 seconds
```

Tue Oct 31 07:44:24 PM +07 2023

Trang web genk

```
kali@B20AT098-Kien-Kali: ~
File Actions Edit View Help
$ date
Tue Oct 31 07:46:55 PM +07 2023
(kali⊕ B20AT098-Kien-Kali)-[~]

$\dig \text{dig genk.vn}$
; <>> DiG 9.18.8-1-Debian <>> genk.vn
;; global options: +cmd
;; Got answer:
;; ->> HEADER<-- opcode: QUERY, status: NOERROR, id: 59064
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; MBZ: 0×0005, udp: 512
;; QUESTION SECTION:
;genk.vn. IN A
;; ANSWER SECTION:
genk.vn. 5 IN A 14.225.199.134
;; Query time: 84 msec
;; SERVER: 192.168.100.2#53(192.168.100.2) (UDP)
;; WHEN: Tue Oct 31 19:46:58 +07 2023
;; MSG SIZE rcvd: 52
[*|
| (kali⊕ B20AT098-Kien-Kali)-[~]
 Tue Oct 31 07:46:59 PM +07 2023
(kali® B20AT098-Kien-Kali)-[~]
$ dnsenum genk.vn
dnsenum VERSION:1.2.6
 IN A 222.255.27.49
uubhyknoqegl.genk.vn.
ns6.synerfy.vn.
ns8.synerfy.vn.
ns7.synerfy.vn.
                                                                                           169.62.159.227
210.245.87.125
123.30.51.247
```

```
aspmx5.googlemail.com.
alt2.aspmx.l.google.com.
aspmx2.googlemail.com.
alt1.aspmx.l.google.com.
aspmx3.googlemail.com.
aspmx4.googlemail.com.
aspmx1.google.com.
                                                                                                                                            142.250.152.26
142.250.115.27
142.250.141.27
142.250.141.26
142.250.115.27
64.233.171.27
108.177.97.27
                                                                                                            IN
IN
IN
IN
IN
                                                                                                                         A A A A A A
Trying Zone Transfer for genk.vn on ns6.synerfy.vn \dots AXFR record query failed: NOTIMP
Trying Zone Transfer for genk.vn on ns8.synerfy.vn \dots AXFR record query failed: NOTIMP
Trying Zone Transfer for genk.vn on ns7.synerfy.vn \dots AXFR record query failed: NOTIMP
mail.genk.vn.
ghs.google.com.
www.genk.vn.
genk.vn.
                                                                                                                                           ghs.google.com.
142.251.220.51
genk.vn.
14.225.199.134
                                                                                                             IN
IN
IN
IN
                                                                                                                         CNAME
                                                                                                                         A
CNAME
  14.225.199.0/24
123.30.151.0/24
0 results out of 512 IP addresses.
done.
[(kali⊕ B20AT098-Kien-Kali)-[~]
date
Tue Oct 31 07:59:29 PM +07 2023
```

```
Tue Oct 31 07:59:29 PM +07 2023
PORT STATE SERVICE
53/tcp filtered domain
  ost script results:

dns-brute:

DNS Brute-force hostnames:

mail.genk.vn - 216.58.200.243

mail.genk.vn - 2404:6800:4005:80d::2013

app.genk.vn - 123.30.151.74

www.genk.vn - 14.225.199.134

_ *A: 222.255.27.49
Tue Oct 31 08:01:17 PM +07 2023
[∼] (kali⊕ B20AT098-Kien-Kali)-[~]
```