# Laboratorul 10

#### Link-uri:

• https://cybermap.kaspersky.com/ -> arata atacurile cibernetice in timp real.

## Task 1 | Aflare adresa IP publica

```
root@host:~# curl ifconfig.me ; echo ""
141.85.150.33
root@host:~# curl api64.ipify.org ; echo ""
141.85.150.37
root@host:~# curl ipinfo.io/ip ; echo ""
141.85.150.30
```

#### Pentru a vedea adresa IP publica:

```
• curl ifconfig.me
```

- curl api64.ipify.org
- curl ipinfo.io/ip

Adresa VM-ului este **10.9.5.29**, o adresa IP privata din **clasa A** (10.0.0.0 – 10.255.255.255).

Adresa publica este **141.85.150.30**, avand clasa **B** (128.0.0.0 – 191.255.255.255).

## Task 2 | Aflare informatii despre adresa IP publica

```
root@host:~# whois 141.85.150.30
```

```
root@host:~# whois 141.85.150.30
% This is the RIPE Database query service.
% The objects are in RPSL format.
%
% The RIPE Database is subject to Terms and Conditions.
% See https://docs.db.ripe.net/terms-conditions.html

% Note: this output has been filtered.
% To receive output for a database update, use the "-B" flag.
% Information related to '141.85.0.0 - 141.85.255.255'
% No abuse contact registered for 141.85.0.0 - 141.85.255.255
inetnum: 141.85.0.0 - 141.85.255.255
netname: PUB-NET
```

org: ORG-PUB1-RIPE

country: R0

admin-c: MB6037-RIPE tech-c: GB6367-RIPE

status: LEGACY

mnt-by: RIPE-NCC-LEGACY-MNT

mnt-by: PUB-MNT
mnt-routes: PUB-MNT
mnt-lower: PUB-MNT

created: 2001-10-28T21:09:38Z
last-modified: 2016-04-14T09:59:36Z
source: RIPE # Filtered

sponsoring-org: ORG-RA17-RIPE

organisation: ORG-PUB1-RIPE

org-name: Politehnica University of Bucharest

country: RO org-type: OTHER

address: Splaiul Independentei 313

address: 060042 Bucharest

address: Romania
phone: +40214029465
mnt-ref: ROEDUNET-MNT
mnt-by: ROEDUNET-MNT

created: 2015-04-24T13:05:49Z last-modified: 2022-12-01T17:31:35Z

source: RIPE # Filtered

person: George BOULESCU

address: RoEduNet, Bucharest NOC address: 313 Splaiul Independentei, address: "Rectorat" Building, R506-507,

address: sector 6, Bucharest

address: ROMANIA

phone: +40-21-3171175 fax-no: +40-21-3171175 nic-hdl: GB6367-RIPE mnt-by: PUB-MNT

created: 1970-01-01T00:00:00Z last-modified: 2008-05-23T16:37:39Z

source: RIPE # Filtered

person: Mihai Barbulescu

address: RoEduNet, Bucharest NOC address: 313 Splaiul Independentei, address: "Rectorat" Building, R506-507,

address: sector 6, Bucharest

address: ROMANIA

phone: +40-21-3171175 fax-no: +40-21-3171175 nic-hdl: MB6037-RIPE

mnt-by: PUB-MNT

created: 2003-12-03T17:51:34Z last-modified: 2008-05-23T16:40:05Z

source: RIPE # Filtered

% Information related to '141.85.0.0/16AS2614'

route: 141.85.0.0/16

descr: RoEduNet

descr: "Politehnica" University of Bucharest

origin: AS2614 mnt-by: PUB-MNT mnt-lower: PUB-MNT

created: 2002-05-16T13:10:52Z
last-modified: 2003-12-07T18:32:49Z
source: RIPE # Filtered

% This query was served by the RIPE Database Query Service version 1.114

(BUSA)

#### Observ subnetul (reteaua):

route: 141.85.0.0/16

#### lar asta pare sa fie autonomous system:

origin: AS2614

## Task 3 | DNS Resolution

root@host:~# apt install dnsutils

root@host:~# which nslookup

/usr/bin/nslookup

root@host:~# nslookup -querytype=CNAME erp.codacloud.net

Server: 127.0.0.53 Address: 127.0.0.53#53

Non-authoritative answer:

erp.codacloud.net canonical name = hermes.codacloud.net.

Authoritative answers can be found from:

codacloud.net nameserver = kiki.ns.cloudflare.com.
codacloud.net nameserver = nitin.ns.cloudflare.com.

```
nitin.ns.cloudflare.com internet address = 108.162.193.215
nitin.ns.cloudflare.com internet address = 172.64.33.215
nitin.ns.cloudflare.com internet address = 173.245.59.215
nitin.ns.cloudflare.com has AAAA address 2a06:98c1:50::ac40:21d7
nitin.ns.cloudflare.com has AAAA address 2606:4700:58::adf5:3bd7
nitin.ns.cloudflare.com has AAAA address 2803:f800:50::6ca2:c1d7
kiki.ns.cloudflare.com internet address = 173.245.58.180
kiki.ns.cloudflare.com internet address = 108.162.192.180
kiki.ns.cloudflare.com internet address = 172.64.32.180
kiki.ns.cloudflare.com has AAAA address 2a06:98c1:50::ac40:20b4
kiki.ns.cloudflare.com has AAAA address 2606:4700:50::adf5:3ab4
kiki.ns.cloudflare.com has AAAA address 2803:f800:50::6ca2:c0b4
```

root@host:~# nslookup -querytype=NS cs.pub.ro

```
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer:
cs.pub.ro nameserver = ns1.grid.pub.ro.
cs.pub.ro nameserver = ns1.cs.pub.ro.
cs.pub.ro nameserver = ns2.cs.pub.ro.

Authoritative answers can be found from:
ns1.cs.pub.ro internet address = 141.85.226.5
ns1.grid.pub.ro internet address = 141.85.241.15
ns1.grid.pub.ro has AAAA address 2001:b30:800:f011:141:85:241:15
ns2.cs.pub.ro internet address = 141.85.241.113
```

root@host:~# nslookup -querytype=MX cs.pub.ro

```
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer:
cs.pub.ro mail exchanger = 10 ironport.upb.ro.

Authoritative answers can be found from:
cs.pub.ro nameserver = ns1.grid.pub.ro.
cs.pub.ro nameserver = ns2.cs.pub.ro.
cs.pub.ro nameserver = ns1.cs.pub.ro.
ironport.upb.ro internet address = 141.85.13.12
ns1.cs.pub.ro internet address = 141.85.226.5
ns1.grid.pub.ro internet address = 141.85.241.15
```

```
ns1.grid.pub.ro has AAAA address 2001:b30:800:f011:141:85:241:15
ns2.cs.pub.ro internet address = 141.85.241.113
```

```
root@host:~# nslookup -querytype=A erp.codacloud.net
```

```
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer: erp.codacloud.net canonical name = hermes.codacloud.net.
Name: hermes.codacloud.net
Address: 35.231.129.40
```

# Task 4 | Descoperirea porturiloe TCP deschise

```
root@host:~# nmap -sT -p 21,22,23,25,53,80,138,443,8000,8080
hermes.codacloud.net hefaistos.codacloud.net
```

```
Starting Nmap 7.80 ( https://nmap.org ) at 2024-12-11 23:03 EET
Nmap scan report for hermes.codacloud.net (35.231.129.40)
Host is up (0.061s latency).
rDNS record for 35.231.129.40: 40.129.231.35.bc.googleusercontent.com
PORT STATE
                SERVICE
21/tcp open ftp
22/tcp filtered ssh
23/tcp filtered telnet
25/tcp filtered smtp
53/tcp filtered domain
80/tcp open http
138/tcp filtered netbios-dgm
443/tcp closed https
8000/tcp filtered http-alt
8080/tcp open http-proxy
Nmap scan report for hefaistos.codacloud.net (34.148.182.155)
Host is up (0.029s latency).
rDNS record for 34.148.182.155: 155.182.148.34.bc.googleusercontent.com
PORT
      STATE
                SERVICE
21/tcp filtered ftp
22/tcp filtered ssh
23/tcp filtered telnet
25/tcp filtered smtp
```

```
53/tcp filtered domain
80/tcp open http
138/tcp filtered netbios-dgm
443/tcp filtered https
8000/tcp filtered http-alt
8080/tcp filtered http-proxy

Nmap done: 2 IP addresses (2 hosts up) scanned in 1.96 seconds
```

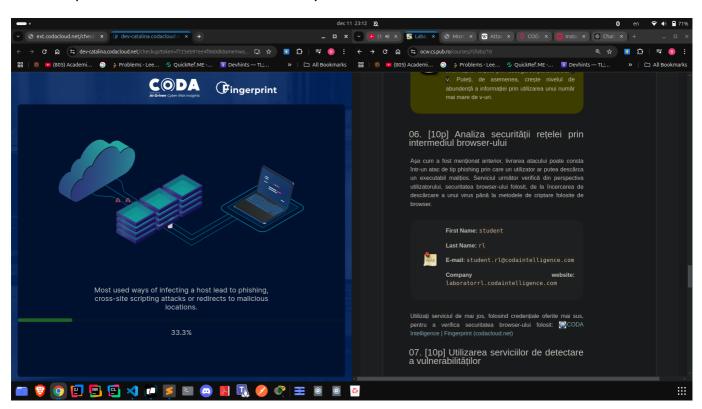
## Task 5 | Determinarea versiunilor aplicatiilor descoperite

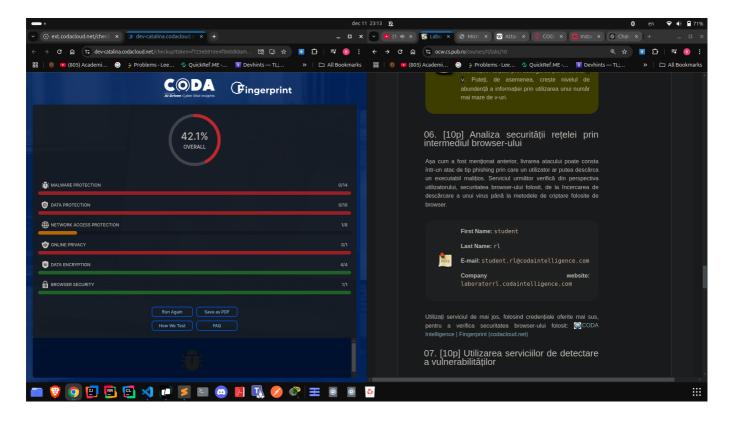
```
# Nu va scana versiuni
root@host:~# nmap -sT -T5 -Pn -v -v -p 21,22,23,25,53,80,138,443,8000,8080
hermes.codacloud.net hefaistos.codacloud.net
```

### Flag-ul **-sV** detecteaza versiuni de aplicatie.

```
# Va scana versiunile aplicatiilor ce ruleaza pe aceste porturi root@host:~# nmap -sT -sV -T5 -Pn -v -v -p 21,22,23,25,53,80,138,443,8000,8080 hermes.codacloud.net hefaistos.codacloud.net
```

## Task 6 | Analiza securiatii retelei prin intermediului browser-ului





Task 7 | Utilizarea serviciilor de detectare a vulnerabilitatilor

#### Platforme:

- https://dnsdumpster.com/
- https://www.shodan.io/

Scriind hermes.codacloud.net in prompt-ul de input al lui https://dnsdumpster.com/, am obtinut adresa IP **35.231.129.40**, despre care pot afla mai multe la URL-ul https://www.shodan.io/host/35.231.129.40.

Task 8 | Rulare **Dos** (Denial of Service) pe un server web

TODO: