

Jesenji semestar, 2022/23

PREDMET: IT381 - Zaštita i bezbednost informacija

Domaći Zadatak br. 5

Student: Aleksa Cekić 4173

Profesor: dr Milena Bogdanović

Asistent: mr Goran Stamenović

Datum izrade: 14.03.2023

Tekst Zadataka

1. Nmap

2. Wireshark Zadatak: Uraditi kompletno skeniranje vaše mreže koristeći komandu nmap –sP 192.168.1.1/24 I uporediti sa skeniranjem mreže preko porta 80 (nmap -sP -PT80 192.168.1.1/24). Skenirajte jedan računar a predstavite se kao neko drugi – spoofing (nmap -sS "victim" -D "spoof"). Skenirajte svoj računar, koji portovi su mu otvoreni koristeći komandu nmap localhost.

Zadatak: Uraditi kompletno skeniranje vaše mreže koristeći komandu nmap –sP 192.168.1.1/24 I uporediti sa skeniranjem mreže preko porta 80 (nmap -sP -PT80 192.168.1.1/24). Skenirajte jedan računar a predstavite se kao neko drugi – spoofing (nmap -sS "victim" -D "spoof").

Rešenje zadataka

Za prikaz ovog domaćeg zadatka koristio sam O.S. Manjaro Linux.

Instaliranje nmap paketa preko packet manager-a.

```
The post-ct master mooks...

The post-ct map is a comman is provided in the provided in the post-ct map is a comman in the post-ct map. The post-ct map is a comman is a comman is a comman in the post-ct map. The post-ct map is a comman is a comm
```

. . .

```
Host is up (0.0011s latency).

Nmap scan report for 192.168.1.248 (192.168.1.248)

Host is up (0.0011s latency).

Nmap scan report for 192.168.1.249 (192.168.1.249)

Host is up (0.0011s latency).

Nmap scan report for 192.168.1.250 (192.168.1.250)

Host is up (0.0020s latency).

Nmap scan report for 192.168.1.251 (192.168.1.251)

Host is up (0.0019s latency).

Nmap scan report for 192.168.1.252 (192.168.1.252)

Host is up (0.0011s latency).

Nmap scan report for 192.168.1.253 (192.168.1.253)

Host is up (0.0011s latency).

Nmap scan report for 192.168.1.254 (192.168.1.254)

Host is up (0.0023s latency).

Nmap scan report for 192.168.1.255 (192.168.1.255)

Host is up (0.0023s latency).

Nmap scan report for 192.168.1.255 (192.168.1.255)

Host is up (0.0023s latency).

Nmap done: 256 IP addresses (255 hosts up) scanned in 3.59 seconds
```

```
nmap -sP -PT80 192.168.1.1/24

Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-14 18:54 EDT

Nmap scan report for csp3.zte.com.cn (192.168.1.1)

Host is up (0.0077s latency).

Nmap done: 256 IP addresses (1 host up) scanned in 1.94 seconds
```

Traženje operativnih sistema na mreži

```
sudo nmap -0 192.168.1.1 192.168.1.255
[sudo] password for alx:
starting Nmap 7.93 ( https://nmap.org ) at 2023-03-14 18:56 EDT

Mmap scan report for csp1.zte.com.cn (192.168.1.1)

Host is up (0.0011s latency).

Host shown: 994 filtered tcp ports (no-response)

STATE SERVICE

22/tcp open ssh

23/tcp open telnet

33/tcp open domain

30/tcp open http

43/tcp open https

52869/tcp open unknown

Marning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port

Device type: bridge|general purpose

Running (JUST GUESSING): Oracle Virtualbox (97%), QEMU (92%)

DS CPE: cpe:/o:oracle:virtualbox cpe:/a:qemu:qemu

Riggressive OS guesses: Oracle Virtualbox (97%), QEMU user mode network gateway (92%)

No exact OS matches for host (test conditions non-ideal).

Mmap scan report for 192.168.1.255 (192.168.1.255)

Host is up (0.0011s latency).

All 1000 scanned ports on 192.168.1.255 (192.168.1.255) are in ignored states.

Not shown: 1000 filtered tcp ports (no-response)

Foo many fingerprints match this host to give specific OS details

DS detection performed. Please report any incorrect results at https://nmap.org/submit/.

Mmap done: 2 IP addresses (2 hosts up) scanned in 11.21 seconds
```

```
Sudo nmap -sS 192.168.1.1

[sudo] password for alx:

Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-14 18:33 EDT

Nmap scan report for csp3.zte.com.cn (192.168.1.1)

Host is up (0.0032s latency).

Not shown: 994 filtered tcp ports (no-response)

PORT STATE SERVICE

22/tcp open ssh

23/tcp open telnet

53/tcp open domain

80/tcp open http

443/tcp open https

52869/tcp open unknown

Nmap done: 1 IP address (1 host up) scanned in 5.42 seconds
```

```
nmap localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-14 18:34 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000096s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 999 closed tcp ports (conn-refused)
PORT STATE SERVICE
631/tcp open ipp
```

Prikazani paketi u program Wireshark.

```
74 69246 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 47588 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 41484 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 55226 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 38816 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 55262 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 55464 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 55782 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 ...
74 44572 - 80 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
74 54674 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
74 54674 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
74 54674 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
74 54894 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
74 34894 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
74 39886 - 80 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
74 39886 - 80 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK_PERM=1 T...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCP
TCP
TCP
TCP
TCP
TCP
TCP
    1010 2.853346932
1011 2.853642425
1012 2.853996167
1013 2.854292411
                                                                                                                                                                                                                                                                                                                                                                                                                192.168.1.221
192.168.1.224
192.168.1.179
192.168.1.190
                                                                                                                                                                                                                                                                                                                                                                                                              192.168.1.229
192.168.1.232
192.168.1.61
192.168.1.61
1018 2.858769710 10.8.2.15
1019 2.859119194 10.8.2.15
1020 2.859446637 10.8.2.15
                                                                                                                                                                                                                                                                                                                                                                                                           192.168.1.66
192.168.1.66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCP
                                                                                                                                                                                                                                                                                                                                                                                                           192.168.1.69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74 34894 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 39886 - 80 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 44864 - 443 [SYN] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 53330 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 48222 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 38386 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 69258 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 41488 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 55472 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 55332 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 55332 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 53532 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 48228 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4872 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4872 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4872 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4872 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4872 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4872 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4872 - 443 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4871 - 488 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4871 - 488 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4871 - 488 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4871 - 488 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4871 - 488 [SYM] Seq=0 Min=64240 Len=0 MSS=1460 SACK PERM=1 74 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4871 - 4
                                                                                                                                                                                                                                                                                                                                                                                                              192.168.1.240
192.168.1.216
192.168.1.218
192.168.1.218
192.168.1.288
192.168.1.213
192.168.1.221
192.168.1.224
    1022 2.861089441
1023 2.862221280
1024 2.862986973
1025 2.952279019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCP
TCP
TCP
TCP
TCP
TCP
TCP
                                                                                                                                                                                                                                                                                                                                                                                                              192.168.1.224
192.168.1.232
192.168.1.216
192.168.1.218
192.168.1.248
       1029 2.964343748
    1029 2.964343746
1030 2.966011676
1031 2.967270363
1032 2.968021761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCP
TCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         84 Standard query 0x6239 PTR 1.1.168.192.in-addr.arpa
171 Standard query response 0x6239 PTR 1.1.168.192.in-addr.arpa P.
```