Politechnika Wrocławska, Informatyka Stosowana

Rekonesans sieciowy

Cyberbezpieczeństwo, Laboratorium nr.11 - raport

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4. Pytania

Pytanie 1;

Te wyniki uzyskane przez nmap mogą być wiarygodne (w granicach możliwości narzędzia), ale zależy to od wielu czynników, między innymi od konfiguracji skanowania lub od tego czy system jest odpowiednio skonfigurowany, a także od poziomu zabezpieczeń badanego hosta lub sieci w której się znajduje. Dodatkowo jeżeli host posiada zabezpieczenia firewalla, to ochrona sieci może blokować dostęp do niektórych portów i pokazywać je fałszywie jako zamknięte. Ponadto usługi przypisane do określonych portów mogą różnic się od tych domyślnie rozpoznawanych przez bazę danych nmap.

Pytanie 2;

Uzyskane informacje o hoście docelowym mogą zależeć od opcji skanowania. Opcje które wymagają dostępu administratora umożliwiają bardziej szczegółowe analizy, ponieważ dostarczają więcej różnych danych o portach i usługach tam uruchomionych. Opcja skanowania SYN wykrywa otwarte porty bez pełnego ustanawiania połączenia. Z kolei opcje z wyborem konkretnych flag TCP nawiązują pełne połączenie, ale przez to takie które jest bardziej widoczne. Opcja skanowania wersji próbuje zidentyfikować usługę i jej wersję na danym porcie. Opcja skanowania systemu operacyjnego podejmuje próbę wykrycia systemu operacyjnego. Im bardziej szczegółowe skanowanie tym więcej informacji można uzyskać.

Pytanie 3;

Nie, skanowanie hostów bez pozwolenia może być nielegalne (zależnie od prawa w danym kraju) i traktowane jako próba włamania lub działanie nieautoryzowane. Jednak samo narzędzie nmap jest legalne i można go normalnie używać bez zewnętrznego pozwolenia, o ile nie zakłóca to w żaden sposób działania skanowanego systemu. Zależy to od prawa w danym kraju, ale w wielu miejscach takie działania mogą prowadzić do konsekwencji prawnych.

5. Zadania

Zadanie 0;

Adresy IP maszyn:

Metasploitable: 192.168.188.36
Kali linux: 192.168.188.35
Adres sieci: 192.168.188.0/24

Zadanie 1;

```
┌──(stud㉿kali-vm)-[~]
└─$ nmap 192.168.188.0/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 15:25 CET
Nmap scan report for fritz.box (192.168.188.1)
Host is up (0.00082s latency).
Not shown: 992 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
53/tcp   open  domain
80/tcp   open  http
139/tcp  open  netbios-ssn
443/tcp  open  https
445/tcp  open  microsoft-ds
5060/tcp open  sip
8181/tcp open  intermapper
MAC Address: 34:81:C4:B4:3B:B4 (AVM GmbH)
```

```
Nmap scan report for 192.168.188.36
Host is up (0.0059s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
111/tcp  open  rpcbind
139/tcp  open  netbios-ssn
445/tcp  open  microsoft-ds
512/tcp  open  exec
513/tcp  open  login
514/tcp  open  shell
1099/tcp open  rmiregistry
1524/tcp open  ingreslock
2049/tcp open  nfs
2121/tcp open  ccproxy-ftp
3306/tcp open  mysql
5432/tcp open  postgresql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
```

```
Nmap scan report for kali-vm.fritz.box (192.168.188.35)
Host is up (0.0000080s latency).
Not shown: 998 closed tcp ports (reset)
PORT   STATE SERVICE
22/tcp open  ssh
80/tcp open  http
```

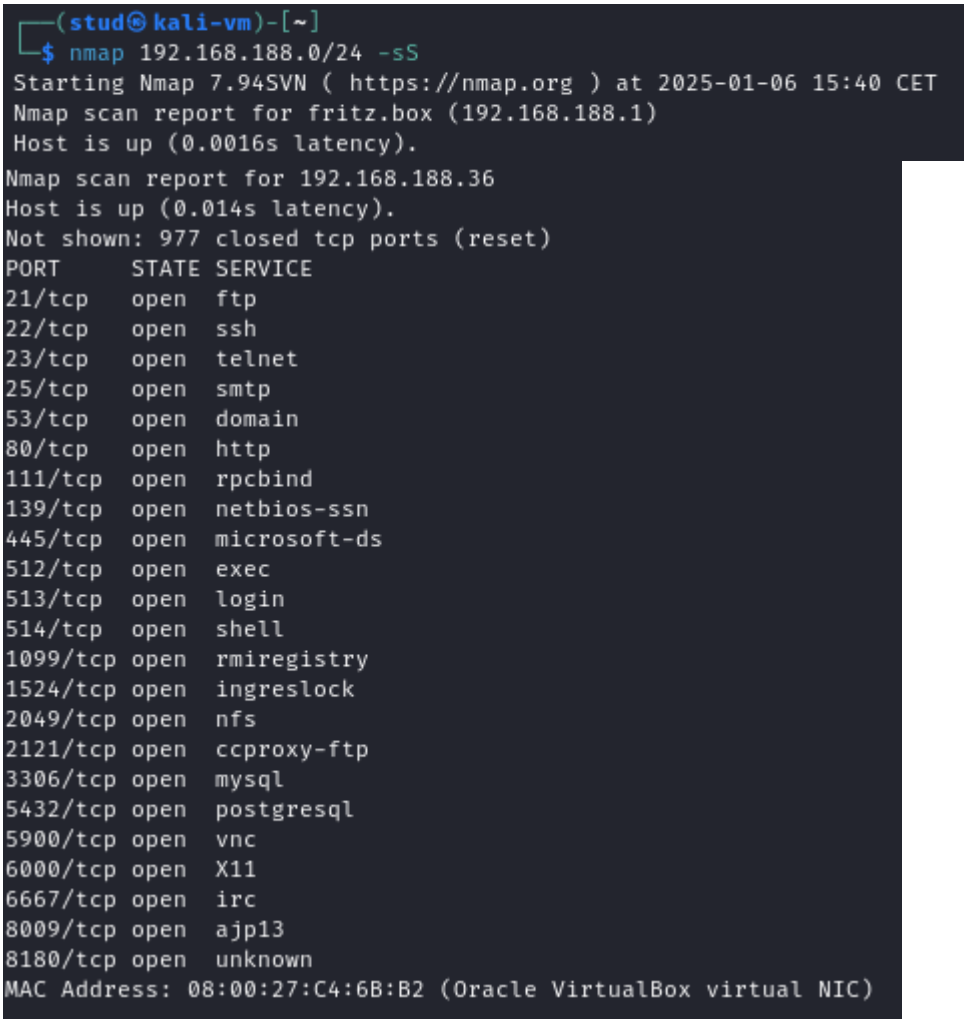
Zadanie 2;

- –sT:

```
Nmap scan report for kali-vm.fritz.box (192.168.188.35)
Host is up (0.00022s latency).
Not shown: 998 closed tcp ports (conn-refused)
PORT   STATE SERVICE
22/tcp open  ssh
80/tcp open  http
```

```
Nmap scan report for 192.168.188.36
Host is up (0.014s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
111/tcp  open  rpcbind
139/tcp  open  netbios-ssn
445/tcp  open  microsoft-ds
512/tcp  open  exec
513/tcp  open  login
514/tcp  open  shell
1099/tcp open  rmiregistry
1524/tcp open  ingreslock
2049/tcp open  nfs
2121/tcp open  ccproxy-ftp
3306/tcp open  mysql
5432/tcp open  postgresql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)
```

- –sS:


┌──(stud㉿kali-vm)-[~]
└─$ nmap 192.168.188.0/24 -sS
Starting Nmap 7.94SVN (https://nmap.org) at 2025-01-06 15:40 CET
Nmap scan report for fritz.box (192.168.188.1)
Host is up (0.0016s latency).
Nmap scan report for 192.168.188.36
Host is up (0.014s latency).
Not shown: 977 closed tcp ports (reset)
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
23/tcp open telnet
25/tcp open smtp
53/tcp open domain
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

- –sN:

```
Nmap scan report for 192.168.188.36
Host is up (0.0049s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE         SERVICE
21/tcp   open|filtered ftp
22/tcp   open|filtered ssh
23/tcp   open|filtered telnet
25/tcp   open|filtered smtp
53/tcp   open|filtered domain
80/tcp   open|filtered http
111/tcp  open|filtered rpcbind
139/tcp  open|filtered netbios-ssn
445/tcp  open|filtered microsoft-ds
512/tcp  open|filtered exec
513/tcp  open|filtered login
514/tcp  open|filtered shell
1099/tcp open|filtered rmiregistry
1524/tcp open|filtered ingreslock
2049/tcp open|filtered nfs
2121/tcp open|filtered ccproxy-ftp
3306/tcp open|filtered mysql
5432/tcp open|filtered postgresql
5900/tcp open|filtered vnc
6000/tcp open|filtered X11
6667/tcp open|filtered irc
8009/tcp open|filtered ajp13
8180/tcp open|filtered unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)
```

- –sM:

```
Nmap scan report for 192.168.188.36
Host is up (0.0014s latency).
All 1000 scanned ports on 192.168.188.36 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)
```

- –sA:

```
Nmap scan report for 192.168.188.36
Host is up (0.0096s latency).
All 1000 scanned ports on 192.168.188.36 are in ignored states.
Not shown: 1000 unfiltered tcp ports (reset)
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)
```

- –sW:

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap -sW 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 15:54 CET
Nmap scan report for 192.168.188.36
Host is up (0.0011s latency).
All 1000 scanned ports on 192.168.188.36 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.40 seconds
```

- –sI:

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap -sI 192.168.188.41 192.168.188.36
WARNING: Many people use -Pn w/Idlescan to prevent pings from their true IP.  On the oth
er hand, timing info Nmap gains from pings can allow for faster, more reliable scans.
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 15:58 CET
Idle scan using zombie 192.168.188.41 (192.168.188.41:443); Class: Incremental
Nmap scan report for 192.168.188.36
Host is up (0.16s latency).
Not shown: 978 closed|filtered tcp ports (no-ipid-change)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
111/tcp  open  rpcbind
139/tcp  open  netbios-ssn
445/tcp  open  microsoft-ds
512/tcp  open  exec
513/tcp  open  login
514/tcp  open  shell
1099/tcp open  rmiregistry
1524/tcp open  ingreslock
2049/tcp open  nfs
2121/tcp open  ccproxy-ftp
3306/tcp open  mysql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 139.50 seconds

┌──(stud㉿kali-vm)-[~]
└─
```

Zadanie 3;

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap -sU 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:03 CET
```

16:09
06.01.2025

6 min ciszy.

Zadanie 4;

- -T 5:

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap -T 5 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:11 CET
Nmap scan report for 192.168.188.36
Host is up (0.00068s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
1524/tcp open  ingreslock
2049/tcp open  nfs
2121/tcp open  ccproxy-ftp
3306/tcp open  mysql
5432/tcp open  postgresql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.47 seconds
```

- -T 4:

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap -T 4 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:13 CET
Nmap scan report for 192.168.188.36
Host is up (0.0022s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
111/tcp  open  rpcbind
139/tcp  open  netbios-ssn
445/tcp  open  microsoft-ds
1099/tcp open  rmiregistry
1524/tcp open  ingreslock
2049/tcp open  nfs
2121/tcp open  ccproxy-ftp
3306/tcp open  mysql
5432/tcp open  postgresql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.28 seconds
```

- -T 3:

```
1099/tcp open  rmiregistry
1524/tcp open  ingreslock
2049/tcp open  nfs
2121/tcp open  ccproxy-ftp
3306/tcp open  mysql
5432/tcp open  postgresql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.50 seconds
```

- -T 2, 1, 0: czas oczekiwania dłuższy niż 15min

Zadanie 5;
Port 21: (sSH)

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap -sV 192.168.188.36 -p 21
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:22 CET
Nmap scan report for 192.168.188.36
Host is up (0.0015s latency).

PORT   STATE SERVICE VERSION
21/tcp open  ftp     vsftpd 2.3.4
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)
Service Info: OS: Unix

Service detection performed. Please report any incorrect results at https://nmap.org/sub
mit/ .
Nmap done: 1 IP address (1 host up) scanned in 0.49 seconds
```

Port 22: FTP

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap -sV 192.168.188.36 -p 22
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:22 CET
Nmap scan report for 192.168.188.36
Host is up (0.0012s latency).

PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/sub
mit/ .
Nmap done: 1 IP address (1 host up) scanned in 0.35 seconds
```

Zadanie 6;

```
┌──(stud㉿kali-vm)-[~]
└─$ sudo nmap 192.168.188.0/24 -O
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:23 CET
```

```
Nmap scan report for 192.168.188.36
Host is up (0.0047s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
```

```
5432/tcp open  postgresql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)
Aggressive OS guesses: Linux 2.6.9 - 2.6.24 (97%), Linux 2.6.9 - 2.6.30 (97%), Linux 2.6
.9 - 2.6.33 (97%), Linux 2.6.13 - 2.6.32 (97%), Linux 2.6.9 (97%), Linux 2.6.24 - 2.6.28
 (96%), Linux 2.6.18 - 2.6.32 (96%), Linux 2.6.22 - 2.6.23 (96%), Linux 2.6.18 (Debian 4
, VMware) (96%), Linux 2.6.23 (96%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
```

Zadanie 7;

```
┌──(stud㉿kali-vm)-[/usr/share/nmap/scripts]
└─$ ls
acarsd-info.nse                 ip-geolocation-ipinfodb.nse
address-info.nse                ip-geolocation-map-bing.nse
afp-brute.nse                   ip-geolocation-map-google.nse
afp-ls.nse                      ip-geolocation-map-kml.nse
afp-path-vuln.nse               ip-geolocation-maxmind.nse
afp-serverinfo.nse              ip-https-discover.nse
afp-showmount.nse               ipidseq.nse
ajp-auth.nse                    ipmi-brute.nse
ajp-brute.nse                   ipmi-cipher-zero.nse
ajp-headers.nse                 ipmi-version.nse
ajp-methods.nse                 ipv6-multicast-mld-list.nse
ajp-request.nse                 ipv6-node-info.nse
allseeingeye-info.nse           ipv6-ra-flood.nse
amqp-info.nse                   irc-botnet-channels.nse
asn-query.nse                   irc-brute.nse
auth-owners.nse                 irc-info.nse
auth-spoof.nse                  irc-sasl-brute.nse
backorifice-brute.nse           irc-unrealircd-backdoor.nse
backorifice-info.nse            iscsi-brute.nse
bacnet-info.nse                 iscsi-info.nse
banner.nse                      isns-info.nse
bitcoin-getaddr.nse             jdwp-exec.nse
bitcoin-info.nse                jdwp-info.nse
bitcoinrpc-info.nse             jdwp-inject.nse
```

Wybrane skrypty z folderu /usr/share/nmap/scripts/

- **http-traceroute.nse**: Wykonuje traceroute przez serwer HTTP, śledząc ścieżkę pakietów do hosta docelowego.
- **ssh-hostkey.nse**: Pobiera i wyświetla klucze hosta SSH z serwera, umożliwiając weryfikację tożsamości serwera.
- **dns-brute.nse**: Przeprowadza atak brute force na serwer DNS w celu odkrycia subdomen dla określonej domeny.
- **mysql-audit.nse**: Audytuje konfigurację bezpieczeństwa serwera MySQL zgodnie z wytycznymi CIS MySQL v1.0.2.

a)

```
└─$ sudo nmap -sC 192.168.188.36
[sudo] password for stud:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:39 CET
Nmap scan report for 192.168.188.36
Host is up (0.0061s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
| ftp-syst:
|   STAT:
| FTP server status:
|      Connected to 192.168.188.35
|      Logged in as ftp
|      TYPE: ASCII
|      No session bandwidth limit
|      Session timeout in seconds is 300
|      Control connection is plain text
|      Data connections will be plain text
|      vsFTPd 2.3.4 - secure, fast, stable
|_End of status
22/tcp   open  ssh
| ssh-hostkey:
|   1024 60:0f:cf:e1:c0:5f:6a:74:d6:90:24:fa:c4:d5:6c:cd (DSA)
|_  2048 56:56:24:0f:21:1d:de:a7:2b:ae:61:b1:24:3d:e8:f3 (RSA)
23/tcp   open  telnet
25/tcp   open  smtp
|_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, ETRN, STAR
TTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN
```

```
|_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, ETRN, STAR
TTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN
| ssl-cert: Subject: commonName=ubuntu804-base.localdomain/organizationName=OCOSA/stateO
rProvinceName=There is no such thing outside US/countryName=XX
| Not valid before: 2010-03-17T14:07:45
|_Not valid after:  2010-04-16T14:07:45
|_ssl-date: 2025-01-06T14:48:50+00:00; -51m53s from scanner time.
| sslv2:
|   SSLv2 supported
|   ciphers:
|     SSL2_RC2_128_CBC_WITH_MD5
|     SSL2_RC2_128_CBC_EXPORT40_WITH_MD5
|     SSL2_DES_192_EDE3_CBC_WITH_MD5
|     SSL2_DES_64_CBC_WITH_MD5
|     SSL2_RC4_128_WITH_MD5
|_    SSL2_RC4_128_EXPORT40_WITH_MD5
53/tcp   open  domain
| dns-nsid:
|_  bind.version: 9.4.2
80/tcp   open  http
|_http-title: Metasploitable2 - Linux
```

```
Host script results:
|_smb2-time: Protocol negotiation failed (SMB2)
|_clock-skew: mean: 23m34s, deviation: 2h30m11s, median: -51m29s
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb-os-discovery:
|   OS: Unix (Samba 3.0.20-Debian)
|   Computer name: metasploitable
|   NetBIOS computer name:
|   Domain name: localdomain
|   FQDN: metasploitable.localdomain
|_  System time: 2025-01-06T09:48:20-05:00
|_nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: <unknown>
(unknown)

Nmap done: 1 IP address (1 host up) scanned in 75.10 seconds
```

b)

```
┌──(stud㉿kali-vm)-[/usr/share/nmap/scripts]
└─$ sudo nmap --script http-enum 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:44 CET
Nmap scan report for 192.168.188.36
Host is up (0.0097s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
| http-enum:
|   /tikiwiki/: Tikiwiki
|   /test/: Test page
|   /phpinfo.php: Possible information file
|   /phpMyAdmin/: phpMyAdmin
|   /doc/: Potentially interesting directory w/ listing on 'apache/2.2.8 (ubuntu) dav/2'
|   /icons/: Potentially interesting folder w/ directory listing
|_  /index/: Potentially interesting folder
111/tcp  open  rpcbind
139/tcp  open  netbios-ssn
445/tcp  open  microsoft-ds
512/tcp  open  exec
513/tcp  open  login
8180/tcp open  unknown
| http-enum:
|   /admin/: Possible admin folder
|   /admin/index.html: Possible admin folder
|   /admin/login.html: Possible admin folder
|   /admin/admin.html: Possible admin folder
|   /admin/account.html: Possible admin folder
|   /admin/admin_login.html: Possible admin folder
|   /admin/home.html: Possible admin folder
|   /admin/admin-login.html: Possible admin folder
|   /admin/adminLogin.html: Possible admin folder
|   /admin/controlpanel.html: Possible admin folder
|   /admin/cp.html: Possible admin folder
|   /admin/index.jsp: Possible admin folder
|   /admin/login.jsp: Possible admin folder
|   /admin/admin.jsp: Possible admin folder
```

```
┌──(stud㉿kali-vm)-[/usr/share/nmap/scripts]
└─$ sudo nmap --script http-headers 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:46 CET
Nmap scan report for 192.168.188.36
Host is up (0.016s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
| http-headers:
|   Date: Mon, 06 Jan 2025 14:51:04 GMT
|   Server: Apache/2.2.8 (Ubuntu) DAV/2
|   X-Powered-By: PHP/5.2.4-2ubuntu5.10
|   Connection: close
|   Content-Type: text/html
|
|_  (Request type: HEAD)
8180/tcp open  unknown
| http-headers:
|   Server: Apache-Coyote/1.1
|   Content-Type: text/html;charset=ISO-8859-1
|   Date: Mon, 06 Jan 2025 14:51:04 GMT
|   Connection: close
|
|_  (Request type: HEAD)
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.57 seconds
```

```
┌──(stud㉿kali-vm)-[/usr/share/nmap/scripts]
└─$ sudo nmap --script http-methods 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:47 CET
Nmap scan report for 192.168.188.36
Host is up (0.0084s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
| http-methods:
|_  Supported Methods: GET HEAD POST OPTIONS
111/tcp  open  rpcbind
```

```
80/tcp   open  http
| http-methods:
|_  Supported Methods: GET HEAD POST OPTIONS
111/tcp  open  rpcbind
139/tcp  open  netbios-ssn
445/tcp  open  microsoft-ds
512/tcp  open  exec
513/tcp  open  login
514/tcp  open  shell
1099/tcp open  rmiregistry
1524/tcp open  ingreslock
2049/tcp open  nfs
2121/tcp open  ccproxy-ftp
3306/tcp open  mysql
5432/tcp open  postgresql
5900/tcp open  vnc
6000/tcp open  X11
6667/tcp open  irc
8009/tcp open  ajp13
8180/tcp open  unknown
| http-methods:
|_  Supported Methods: GET HEAD POST OPTIONS
MAC Address: 08:00:27:C4:6B:B2 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.66 seconds
```

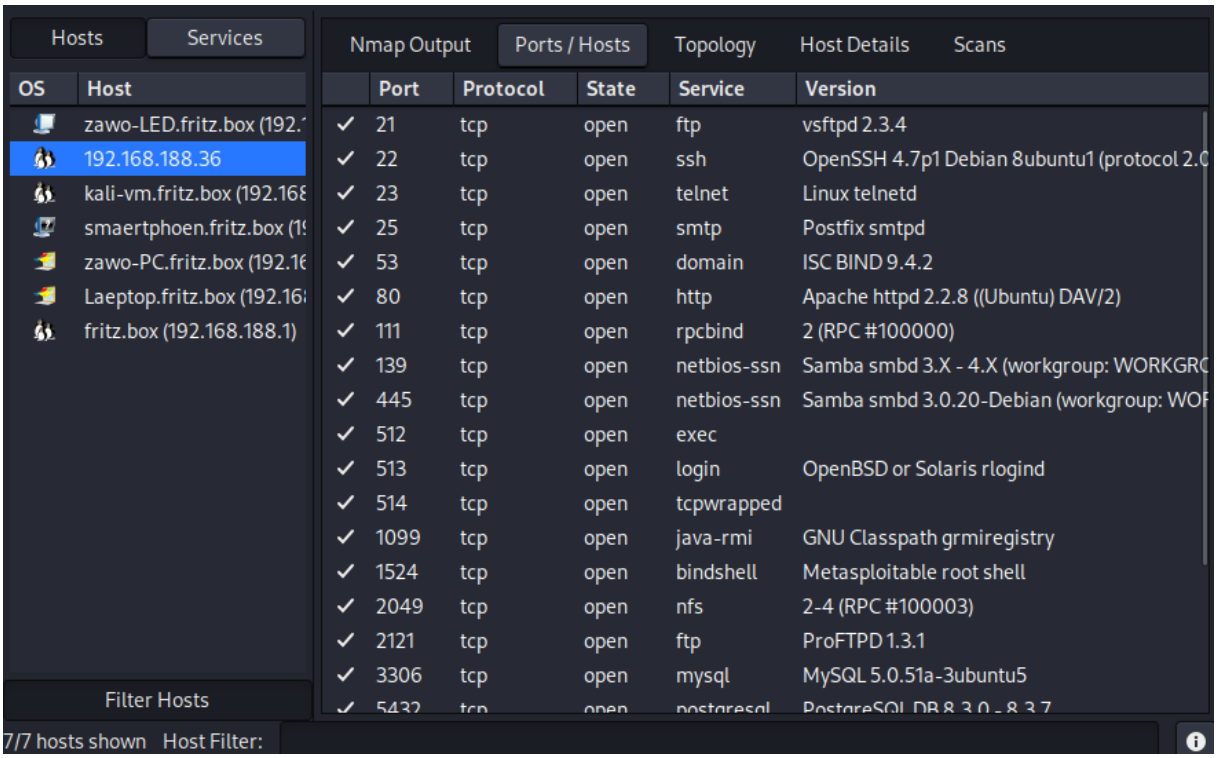
```
┌──(stud㉿kali-vm)-[/usr/share/nmap/scripts]
└─$ sudo nmap --script http-phpversion 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:47 CET
NSE: failed to initialize the script engine:
/usr/share/nmap/nse_main.lua:829: 'http-phpversion' did not match a category, filename,
or directory
stack traceback:
        [C]: in function 'error'
        /usr/share/nmap/nse_main.lua:829: in local 'get_chosen_scripts'
        /usr/share/nmap/nse_main.lua:1364: in main chunk
        [C]: in ?

QUITTING!

┌──(stud㉿kali-vm)-[/usr/share/nmap/scripts]
└─$ sudo nmap --script http-php-version 192.168.188.36
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-06 16:48 CET
Nmap scan report for 192.168.188.36
Host is up (0.0075s latency).
Not shown: 977 closed tcp ports (reset)
PORT     STATE SERVICE
21/tcp   open  ftp
22/tcp   open  ssh
23/tcp   open  telnet
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
| http-php-version: Versions from logo query (less accurate): 5.1.3 - 5.1.6, 5.2.0 - 5.2
80/tcp   open  http
| http-php-version: Versions from logo query (less accurate): 5.1.3 - 5.1.6, 5.2.0 - 5.2
.17
| Versions from credits query (more accurate): 5.2.3 - 5.2.5, 5.2.6RC3
|_Version from header x-powered-by: PHP/5.2.4-2ubuntu5.10
111/tcp  open  rpcbind
```

Zadanie 8;


Scan Tools Profile Help
Target: 192.168.188.0/24
Profile: Intense scan
Scan
Cancel
Command: nmap -T4 -A -v 192.168.188.0/24
Hosts
Services
OS
Host
zawo-LED.fritz.box (192.168.188.41)
192.168.188.36
kali-vm.fritz.box (192.168.188.35)
smaertphoen.fritz.box (192.168.188.2
zawo-PC.fritz.box (192.168.188.23)
Laeptop.fritz.box (192.168.188.20)
fritz.box (192.168.188.1)
Filter Hosts
7/7 hosts shown
Host Filter:
Nmap Output
Ports / Hosts
Topology
Host Details
Scans
Hosts Viewer
Fisheye
Controls
Legend
Save Graphic
smaertphoen.fritz.box (192.168.188.2
kali-vm.fritz.box (192.168.188.35)
localhost
fritz.box (192.168.188
192.168.188.36
zawo-PC.fritz.box (192.168.188.23)
zawo-LED.fritz.box (192.168.
Laeptop.fritz.box (192.168.188.20)

- 192.168.188.36
  - **Host Status**
    - State: up
    - Open ports: 23
    - Filtered ports: 0
    - Closed ports: 977
    - Scanned ports: 1000
    - Up time: 6109
    - Last boot: Mon Jan 6 15:22:43 2025
  - **Addresses**
    - IPv4: 192.168.188.36
    - IPv6: Not available

- **Addresses**
  - IPv4: 192.168.188.36
  - IPv6: Not available
  - MAC: 08:00:27:C4:6B:B2
- **Operating System**
  - Name: Linux 2.6.9 - 2.6.33
  - Accuracy:
  - **Ports used**
    - Port-Protocol-State: 21 - tcp - open
    - Port-Protocol-State: 1 - tcp - closed
    - Port-Protocol-State: 34323 - udp - closed



Zadanie 9;

```
┌──(stud㉿kali-vm)-[~]
└─$ amap -bq 192.168.188.36 80 3306
amap v5.4 (www.thc.org/thc-amap) started at 2025-01-06 17:17:24 - APPLICATION
 MAPPING mode

Protocol on 192.168.188.36:80/tcp matches http - banner: HTTP/1.1 200 OK\r\nD
ate Mon, 06 Jan 2025 150407 GMT\r\nServer Apache/2.2.8 (Ubuntu) DAV/2\r\nX-Po
wered-By PHP/5.2.4-2ubuntu5.10\r\nContent-Length 891\r\nConnection close\r\nC
ontent-Type text/html\r\n\r\n<html><head><title>Metasploitable2 - Linux</titl
e><
Protocol on 192.168.188.36:80/tcp matches http-apache-2 - banner: HTTP/1.1 20
0 OK\r\nDate Mon, 06 Jan 2025 150407 GMT\r\nServer Apache/2.2.8 (Ubuntu) DAV/
2\r\nX-Powered-By PHP/5.2.4-2ubuntu5.10\r\nContent-Length 891\r\nConnection c
lose\r\nContent-Type text/html\r\n\r\n<html><head><title>Metasploitable2 - Li
nux</title><
Protocol on 192.168.188.36:3306/tcp matches mysql - banner: >\n5.0.51a-3ubunt
u5$q;pD@Uk<,'L+2XG9*a/c(Bad handshake

amap v5.4 finished at 2025-01-06 17:17:30
```