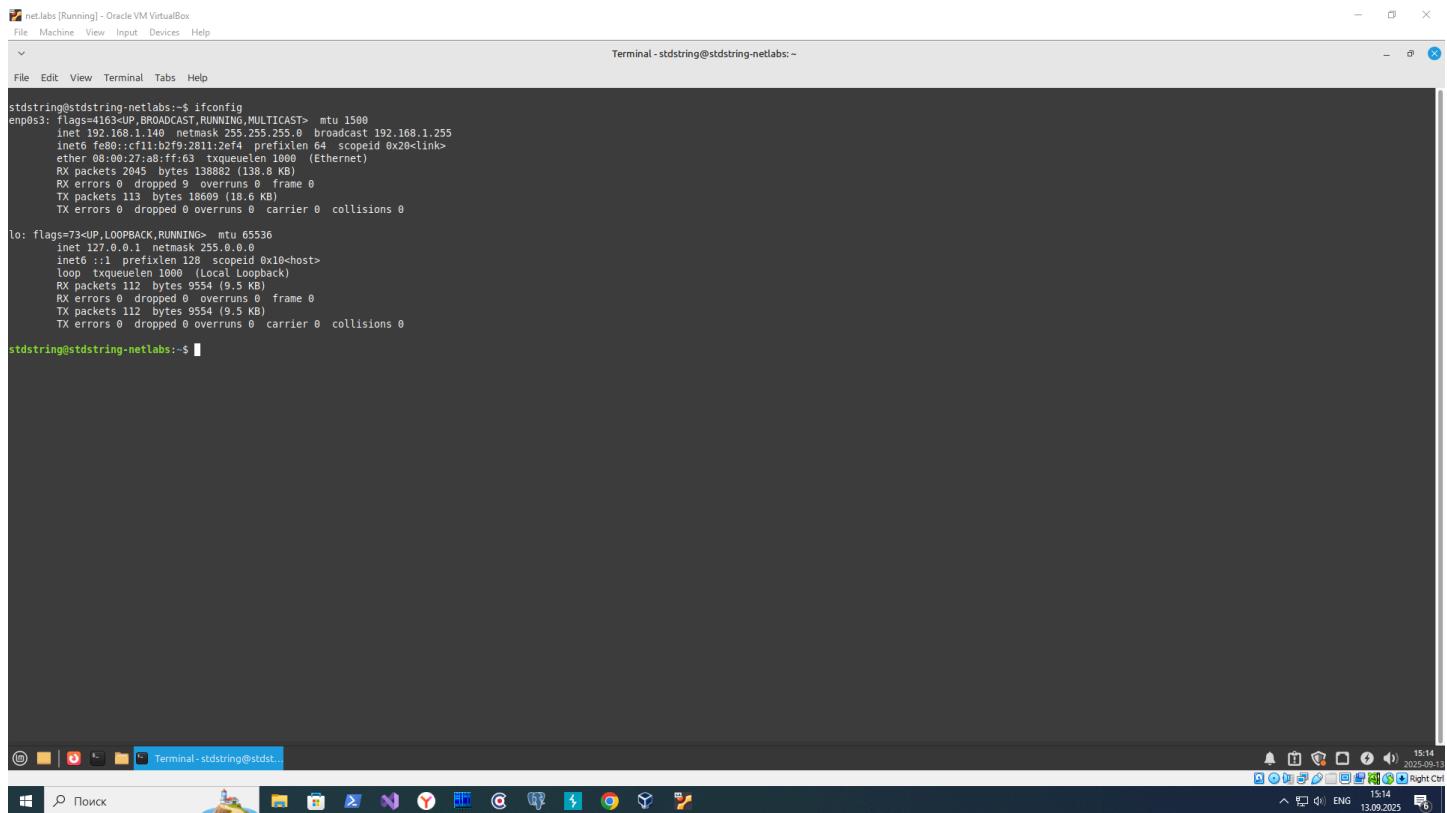


## Задание:

Установите Nmap и выполните в нем следующие задачи:

1. Проведите сканирование домашней сети.
2. Обнаружьте все хосты, входящие в сеть.
3. Определите операционную систему всех устройств.
4. Постройте топологию сети.
5. Обнаружьте открытые порты.
6. Сохраните результаты сканирования.

## Локальная конфигурация сетевого интерфейса



```
net.labs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
File Edit View Terminal Tabs Help
Terminal - stdstring@stdstring-netlabs: ~
stdstring@stdstring-netlabs:~$ ifconfig
enp0s3: flags=4163UP,BROADCAST,RUNNING,MULTICAST mtu 1500
        inet 192.168.1.140 netmask 255.255.255.0 broadcast 192.168.1.255
                inet6 fe80::c11:b2f9:2811:2ef4 prefixlen 64 scopeid 0x20<link>
                    ether 08:00:27:a8:ff:63 txqueuelen 1000 (Ethernet)
                    RX packets 2045 bytes 138882 (138.8 KB)
                    RX errors 0 dropped 9 overruns 0 frame 0
                    TX packets 113 bytes 18609 (18.6 KB)
                    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73UP,LOOPBACK,RUNNING mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
                inet6 ::1 prefixlen 128 scopeid 0x10<host>
                    loop txqueuelen 1000 (Local Loopback)
                    RX packets 112 bytes 9554 (9.5 KB)
                    RX errors 0 dropped 0 overruns 0 frame 0
                    TX packets 112 bytes 9554 (9.5 KB)
                    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
stdstring@stdstring-netlabs:~$
```

Проверяю версию nmap:

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
File Edit View Terminal Tabs Help
stdstring@stdstring-netlabs:~$ nmap --version
Nmap version 7.95 ( https://nmap.org )
Platform: x86_64-pc-linux-gnu
Compiled with: liblua-5.4.0 openssl-3.0.13 libssh2-1.11.0 libz-1.3 libpcre2-10.42 libpcap-1.10.4 nmap-libdnet-1.12 ipv6
Compiled without:
Available nsock engines: epoll poll select
stdstring@stdstring-netlabs:~$
```

Запускаю сканирование с опцией sL:

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
File Edit View Terminal Tabs Help
stdstring@stdstring-netlabs:~$ nmap -sL
Nmap scan report for 192.168.1.207
Nmap scan report for 192.168.1.208
Nmap scan report for 192.168.1.209
Nmap scan report for 192.168.1.210
Nmap scan report for 192.168.1.211
Nmap scan report for 192.168.1.212
Nmap scan report for 192.168.1.213
Nmap scan report for 192.168.1.214
Nmap scan report for 192.168.1.215
Nmap scan report for 192.168.1.216
Nmap scan report for 192.168.1.217
Nmap scan report for 192.168.1.218
Nmap scan report for 192.168.1.219
Nmap scan report for 192.168.1.220
Nmap scan report for 192.168.1.221
Nmap scan report for 192.168.1.222
Nmap scan report for 192.168.1.223
Nmap scan report for 192.168.1.224
Nmap scan report for 192.168.1.225
Nmap scan report for 192.168.1.226
Nmap scan report for 192.168.1.227
Nmap scan report for 192.168.1.228
Nmap scan report for 192.168.1.229
Nmap scan report for 192.168.1.230
Nmap scan report for 192.168.1.231
Nmap scan report for 192.168.1.232
Nmap scan report for 192.168.1.233
Nmap scan report for 192.168.1.234
Nmap scan report for 192.168.1.235
Nmap scan report for 192.168.1.236
Nmap scan report for 192.168.1.237
Nmap scan report for 192.168.1.238
Nmap scan report for 192.168.1.239
Nmap scan report for 192.168.1.240
Nmap scan report for 192.168.1.241
Nmap scan report for 192.168.1.242
Nmap scan report for 192.168.1.243
Nmap scan report for 192.168.1.244
Nmap scan report for 192.168.1.245
Nmap scan report for 192.168.1.246
Nmap scan report for 192.168.1.247
Nmap scan report for 192.168.1.248
Nmap scan report for 192.168.1.249
Nmap scan report for 192.168.1.250
Nmap scan report for 192.168.1.251
Nmap scan report for 192.168.1.252
Nmap scan report for 192.168.1.253
Nmap scan report for 192.168.1.254
Nmap scan report for 192.168.1.255
Nmap done: 256 IP addresses (0 hosts up) scanned in 2.11 seconds
stdstring@stdstring-netlabs:~$
```

Результат - ничего не обнаружено: 0 hosts up

Запускаю сканирование с опцией sn:

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
File Edit View Terminal Tabs Help
stdstring@stdstring-netlabs:~$ nmap -sn 192.168.1.0/24
Starting Nmap 7.91 ( https://nmap.org ) at 2025-09-13 15:35 +05
Nmap scan report for gateway (192.168.1.1)
Host is up (0.0048s latency).
Nmap scan report for 192.168.1.2
Host is up (0.0040s latency).
Nmap scan report for 192.168.1.78
Host is up (0.044s latency).
Nmap scan report for 192.168.1.107
Host is up (0.0017s latency).
Nmap scan report for stdstring-netlabs (192.168.1.140)
Host is up (0.0027s latency).
Nmap scan report for 192.168.1.140 (5 hosts up) scanned in 2.52 seconds
stdstring@stdstring-netlabs:~$
```

Результат - обнаружено 5 хостов со следующими адресами: 192.168.1.1, 192.168.1.2, 192.168.1.78, 192.168.1.107, 192.168.1.140. Из них один хост с IP адресом 192.168.1.140 - исходный хост, хост с IP адресом 192.168.1.1 - маршрутизатор (gateway).

Пробую определить операционную систему на каждом хосте

1. Проверяю хост 192.168.1.1 (маршрутизатор):

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~

Starting nmap -A [92.168.1.1]
Starting Nmap 9.1.0 ( https://nmap.org ) at 2025-09-13 15:48 +05
WARNING: Service 192.168.1.1:1900 had already soft-matched upnp, but now soft-matched rtsp; ignoring second value
WARNING: Service 192.168.1.1:1900 had already soft-matched upnp, but now soft-matched sip; ignoring second value
Nmap scan report for gateway (192.168.1.1)
Host is up (0.001s latency).
Not shown: 993 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
23/tcp    open  telnet
| fingerprint-strings:
|   GenericLines:
|     [KeeneticOS version 4.03.C.6.0-5, copyright (c) 2010-2025 Keenetic Ltd.
|   Login:
|     Password:
|     Login:
|   GetRequest:
|     HTTP/1.0
|     [KeeneticOS version 4.03.C.6.0-5, copyright (c) 2010-2025 Keenetic Ltd.
|   Login:
|     HELP
|     HELP
|     [KeeneticOS version 4.03.C.6.0-5, copyright (c) 2010-2025 Keenetic Ltd.
|   Login:
|     NULL/3270:
|     [KeeneticOS version 4.03.C.6.0-5, copyright (c) 2010-2025 Keenetic Ltd.
|   Login:
|     SIPOptions:
|       OPTIONS sip:nn SIP/2.0
|       Via: SIP/2.0/TCP nn;branch=foo
|       From: <sip:nn@nn>;tag=root
|       <sip:nn@nn>
|       Call-ID: 50000
|       CSeq: 42 OPTIONS
|       Max-Forwards: 70
|       Content-Length: 0
|       Contact: <sip:nn@nn>;
|       Accept: application/sdp
|     [KeeneticOS version 4.03.C.6.0-5, copyright (c) 2010-2025 Keenetic Ltd.
|   Login:
|     Login domain      Unbound 1.23.1
|     dns-nsid:
|       id.server: resolver1.sis.mirasytem.net
|       bind.version: unbound 1.23.1
|     80/tcp  open  http   Web server
|       http-title: KeeneticOS Web Panel
|       http-robots.txt: 1 disallowed entry
|       http-server-header: Web server
|       fingerprint-strings:
|         FourOhFourRequest, GetRequest, HTTPOptions:
|           HTTP/1.1 400 Bad Request
|             Server: Web server
|             Date: Sat, 13 Sep 2025 10:48:22 GMT
|             Content-Length: 76
|             Connection: close
|             X-Detail: 0xcc56, missing host header
|             <html>
|               <head>
|               </head>
|               <body>
|                 <h1>400: Bad Request</h1>
|               </body>
|             </html>
|             RPCCheck:
|               HTTP/1.1 408 Bad Request
|                 Server: Web server
|                 Date: Sat, 13 Sep 2025 10:48:27 GMT
|                 Content-Type: text/html
|                 Content-Length: 155
|                 Connection: close
|                 <html>
|                   <head><title>400 Bad Request</title></head>
|                   <body>
|                     <center><h1>400 Bad Request</h1></center>
|                     <br><center>Web server</center>
|                   </body>
|                 </html>
|                 RTSPRequest, X11Probe:
|                   HTTP/1.1 400 Bad Request
|                     Server: Web server
|                     Date: Sat, 13 Sep 2025 10:48:22 GMT
|                     Content-Type: text/html
|                     Content-Length: 155
|                     Connection: close
|                     <html>
|                       <head><title>400 Bad Request</title></head>
|                       <body>
|                         <center><h1>400 Bad Request</h1></center>
|                         <br><center>Web server</center>
|                       </body>
|                     </html>
139/tcp  open  netbios-ssn?
443/tcp  open  https?
445/tcp  open  microsoft-ds
Terminal - stdstring@stdstring-netlabs: ~
```

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~

bind.version: unbound 1.23.1
80/tcp  open  http   Web server
| http-title: KeeneticOS Web Panel
| http-robots.txt: 1 disallowed entry
|
| http-server-header: Web server
| fingerprint-strings:
|   FourOhFourRequest, GetRequest, HTTPOptions:
|     HTTP/1.1 400 Bad Request
|       Server: Web server
|       Date: Sat, 13 Sep 2025 10:48:22 GMT
|       Content-Length: 76
|       Connection: close
|       X-Detail: 0xcc56, missing host header
|       <html>
|         <head>
|         </head>
|         <body>
|           <h1>400: Bad Request</h1>
|         </body>
|       </html>
|       RPCCheck:
|         HTTP/1.1 408 Bad Request
|           Server: Web server
|           Date: Sat, 13 Sep 2025 10:48:27 GMT
|           Content-Type: text/html
|           Content-Length: 155
|           Connection: close
|           <html>
|             <head><title>400 Bad Request</title></head>
|             <body>
|               <center><h1>400 Bad Request</h1></center>
|               <br><center>Web server</center>
|             </body>
|           </html>
|           RTSPRequest, X11Probe:
|             HTTP/1.1 400 Bad Request
|               Server: Web server
|               Date: Sat, 13 Sep 2025 10:48:22 GMT
|               Content-Type: text/html
|               Content-Length: 155
|               Connection: close
|               <html>
|                 <head><title>400 Bad Request</title></head>
|                 <body>
|                   <center><h1>400 Bad Request</h1></center>
|                   <br><center>Web server</center>
|                 </body>
|               </html>
139/tcp  open  netbios-ssn?
443/tcp  open  https?
445/tcp  open  microsoft-ds
Terminal - stdstring@stdstring-netlabs: ~
```

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
```

netlabs [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal - stdstring@stdstring-netlabs: ~

```
|</html>
139/tcp open  netbios-ssn?
443/tcp open  https?
445/tcp open  microsoft-ds
fingerprint-strings:
SMBProgNeg:
SMB
WORKGROUP
KEENETIC ULTRA
1980/tcp open  upnp      MiniUPnP 2.0 (UPnP 1.1)
fingerprint-strings:
FourOhFourRequest, GetRequest:
HTTP/1.0 404 Not Found
Content-Type: text/html
Connection: close
Content-Length: 134
Server: Keenetic Ltd. UPnP/1.1 MiniUPnPd/2.0
Ext:
<HTML><HEAD><TITLE>404 Not Found</TITLE></HEAD><BODY><H1>Not Found</H1>The requested URL was not found on this server.</BODY></HTML>
GeneralLines:
501 Not Implemented
Content-Type: text/html
Connection: close
Content-Length: 149
Server: Keenetic Ltd. UPnP/1.1 MiniUPnPd/2.0
Ext:
<HTML><HEAD><TITLE>501 Not Implemented</TITLE></HEAD><BODY><H1>Not Implemented</H1>The HTTP Method is not implemented by this server.</BODY></HTML>
HTTPOptions:
HTTP/1.0 501 Not Implemented
Content-Type: text/html
Connection: close
Content-Length: 149
Server: Keenetic Ltd. UPnP/1.1 MiniUPnPd/2.0
Ext:
<HTML><HEAD><TITLE>501 Not Implemented</TITLE></HEAD><BODY><H1>Not Implemented</H1>The HTTP Method is not implemented by this server.</BODY></HTML>
RTSPRequest:
RTSP/1.0 501 Not Implemented
Content-Type: text/html
Connection: close
Content-Length: 149
Server: Keenetic Ltd. UPnP/1.1 MiniUPnPd/2.0
Ext:
<HTML><HEAD><TITLE>501 Not Implemented</TITLE></HEAD><BODY><H1>Not Implemented</H1>The HTTP Method is not implemented by this server.</BODY></HTML>
SIPOptions:
SIP/2.0 501 Not Implemented
Content-Type: text/html
Connection: close
Content-Length: 149
Server: Keenetic Ltd. UPnP/1.1 MiniUPnPd/2.0
Ext:
<HTML><HEAD><TITLE>501 Not Implemented</TITLE></HEAD><BODY><H1>Not Implemented</H1>The HTTP Method is not implemented by this server.</BODY></HTML>

```

Видно, что на этом хосте операционная система - это KeeneticOS (это видно по разным fingerprint). Это ожидаемо, т.к. хост 192.168.1.1 - это маршрутизатор.

? Проверяю хост 192.168.1.2

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~

stdstring@stdstring-netlabs:~$ sudo nmap -o 192.168.1.2
Starting Nmap 7.945VN ( https://nmap.org ) at 2025-09-13 16:09 +05
Nmap scan report for 192.168.1.2
Host is up (0.0038s latency).
Not shown: 994 closed tcp ports (reset)
PORT      STATE SERVICE
135/tcp    open  msrpc
139/tcp    open  netbios-ssn
445/tcp    open  microsoft-ds
2179/tcp   open  vmdrp
5357/tcp   open  wsadapi
5432/tcp   open  postgresql
MAC Address: 68:05:CA:AA:98:9E (Intel Corporate)
Device: Intel PRO/100 MT Desktop
OS Name: Microsoft Windows 10
OS CPE: cpe:/o:microsoft:windows_10
OS details: Microsoft Windows 10 1709 - 1909
Network Distance: 1 hop

OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 1.29 seconds
stdstring@stdstring-netlabs:~$
```

Видно, что на этом хосте операционная система - это Microsoft Windows 10 1709 - 1909.

### 3. Проверяю хост 192.168.1.78:

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~

stdstring@stdstring-netlabs:~$ sudo nmap --osscan-guess -A 192.168.1.78
Starting Nmap 7.945VN ( https://nmap.org ) at 2025-09-13 16:15 +05
Nmap scan report for 192.168.1.78
Host is up (0.0038s latency).
All 1000 scanned ports on 192.168.1.78 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: F0:B0:40:52:A7:F5 (Hunan FN-Link Technology Limited)
Too many fingerprints match this host to give specific OS details
Network Distance: 1 hop

TRACEROUTE
HOP RTT      ADDRESS
1  3.77 ms  192.168.1.78

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2.21 seconds
stdstring@stdstring-netlabs:~$
```

На данном хосте версию ОС определить не удалось

### 4. Проверяю хост 192.168.1.107:

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
stdstring@stdstring-netlabs:~$ sudo nmap --osscan-guess -A 192.168.1.107
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-09-13 16:22 +05
Nmap scan report for 192.168.1.107
Host is up (0.00073s latency).
All 1000 scanned ports on 192.168.1.107 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: 08:00:27:AC:41:32 (Oracle VirtualBox virtual NIC)
Too many fingerprints match this host to give specific OS details
Network Distance: 1 hop

TRACEROUTE
HOP RTT ADDRESS
1 0.73 ms 192.168.1.107

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2.12 seconds
stdstring@stdstring-netlabs:~$
```

На данном хосте версию ОС определить не удалось

5. Проверяю хост 192.168.1.140 (исходный хост):

```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
stdstring@stdstring-netlabs:~$ sudo nmap --osscan-guess -A 192.168.1.140
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-09-13 17:42 +05
Nmap scan report for stdstring-netlabs (192.168.1.140)
Host is up (0.000000ms latency).
All 1000 scanned ports on stdstring-netlabs (192.168.1.140) are in ignored states.
Not shown: 1000 closed tcp ports (reset)
Too many fingerprints match this host to give specific OS details
Network Distance: 0 hops

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 1.69 seconds
stdstring@stdstring-netlabs:~$
```

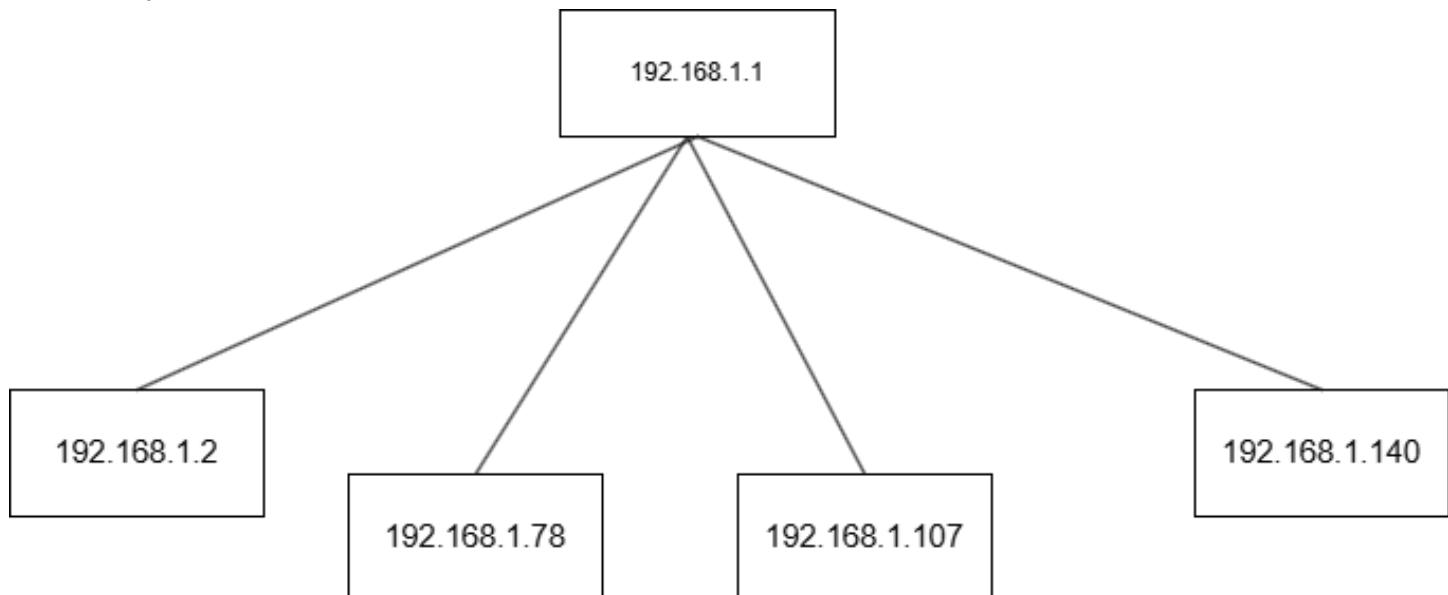
На данном хосте версию ОС определить не удалось

Строю топологию сети. В сети присутствуют:

1. Маршрутизатор с IP адресом 192.168.1.1.

2. Компьютер с ОС Microsoft Windows 10 с IP адресом 192.168.1.2.
3. Компьютер (устройство) с неопределенной ОС с IP адресом 192.168.1.78
4. Компьютер (устройство) с неопределенной ОС с IP адресом 192.168.1.107 (на самом деле там Astra Linux)
5. Компьютер (устройство) с неопределенной ОС с IP адресом 192.168.1.140 (на самом деле там Mint 22.1)

Все эти устройства подключены к центральному узлу (маршрутизатору) - поэтому топология сети в данном случае звезда. Если ее нарисовать, то выглядеть она будет следующим образом:



Пробую определить открытые порты:

1. Проверяю хост 192.168.1.1 (маршрутизатор):

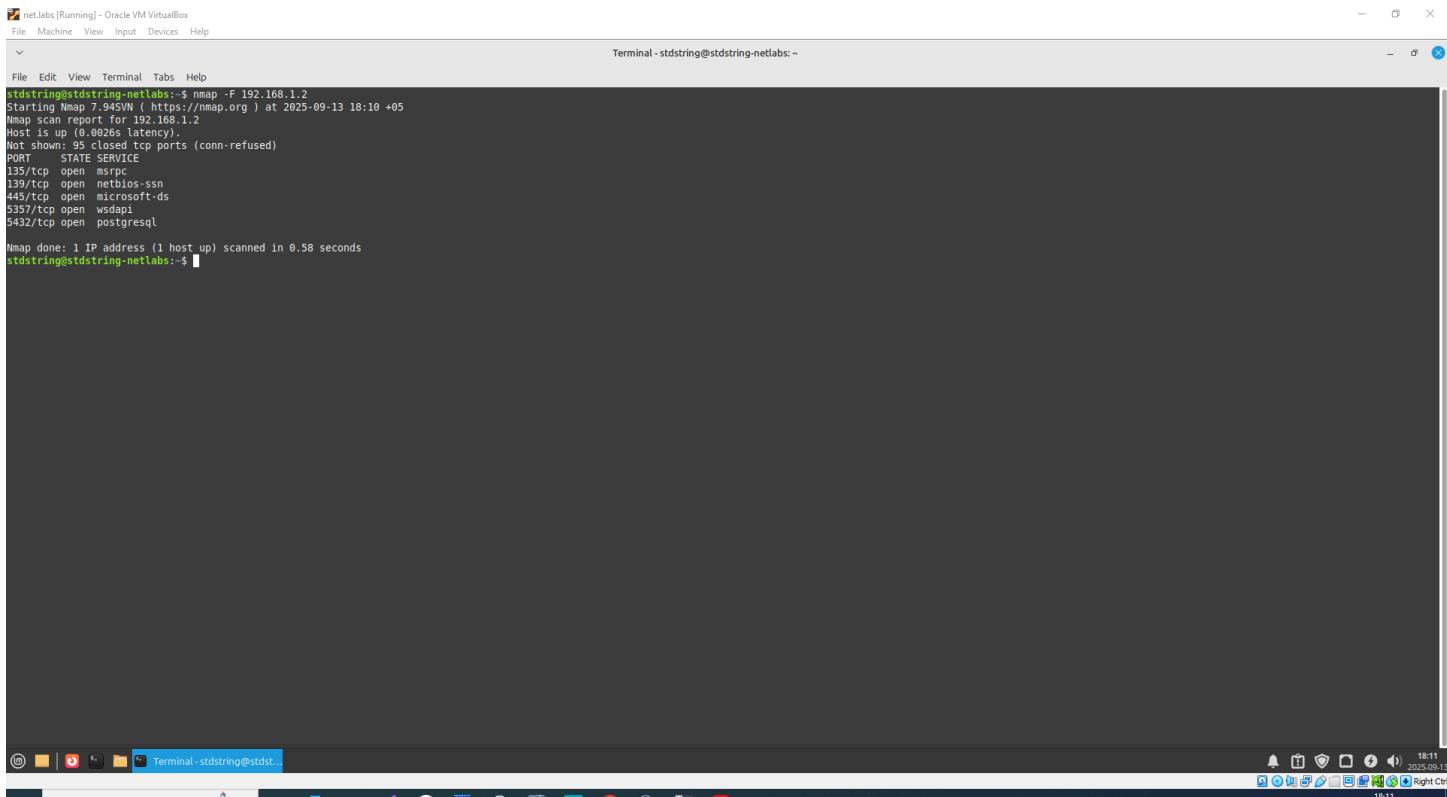
```

netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
stdstring@stdstring-netlabs:~$ nmap -F 192.168.1.1
Starting Nmap 7.94 ( https://nmap.org ) at 2025-09-13 18:09 +05
Nmap scan report for gateway (192.168.1.1)
Host is up (0.0030s latency).
Not shown: 93 closed tcp ports (conn-refused)
PORT      STATE SERVICE
23/tcp    open  telnet
53/tcp    open  domain
80/tcp    open  http
443/tcp   open  https
445/tcp   open  microsoft-ds
1900/tcp  open  upnp

Nmap done: 1 IP address (1 host up) scanned in 0.11 seconds
stdstring@stdstring-netlabs:~$ 
  
```

Нахожу 7 открытых портов

2. Проверяю хост 192.168.1.2:

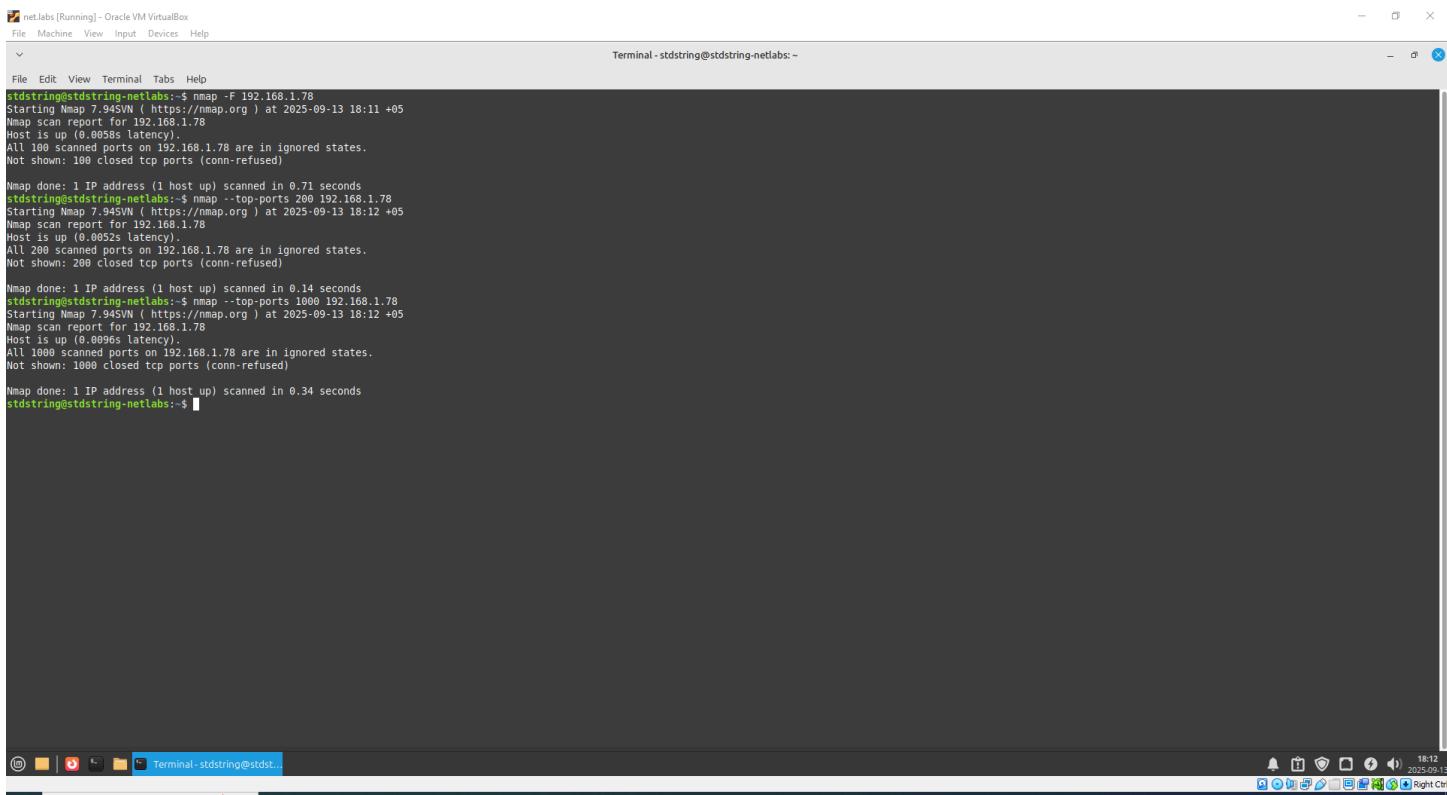


```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
stdstring@stdstring-netlabs:~$ nmap -F 192.168.1.2
Starting Nmap 7.94 ( https://nmap.org ) at 2025-09-13 18:10 +05
Nmap scan report for 192.168.1.2
Host is up (0.0026s latency).
Not shown: 95 closed tcp ports (conn-refused)
PORT      STATE SERVICE
135/tcp    open  msrpc
445/tcp    open  microsoft-ds
5357/tcp   open  wsddapi
5432/tcp   open  postgresql
139/tcp    open  msrpc
443/tcp    open  https
593/tcp    open  http

Nmap done: 1 IP address (1 host up) scanned in 0.58 seconds
stdstring@stdstring-netlabs:~$
```

Нахожу 5 открытых портов

3. Проверяю хост 192.168.1.78:



```
netLabs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
stdstring@stdstring-netlabs:~$ nmap -F 192.168.1.78
Starting Nmap 7.94 ( https://nmap.org ) at 2025-09-13 18:11 +05
Nmap scan report for 192.168.1.78
Host is up (0.0058s latency).
All 100 scanned ports on 192.168.1.78 are in ignored states.
Not shown: 100 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.71 seconds
stdstring@stdstring-netlabs:~$ nmap --top-ports 200 192.168.1.78
Starting Nmap 7.94 ( https://nmap.org ) at 2025-09-13 18:12 +05
Nmap scan report for 192.168.1.78
Host is up (0.0052s latency).
All 200 scanned ports on 192.168.1.78 are in ignored states.
Not shown: 200 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.14 seconds
stdstring@stdstring-netlabs:~$ nmap --top-ports 1000 192.168.1.78
Starting Nmap 7.94 ( https://nmap.org ) at 2025-09-13 18:12 +05
Nmap scan report for 192.168.1.78
Host is up (0.0096s latency).
All 1000 scanned ports on 192.168.1.78 are in ignored states.
Not shown: 1000 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.34 seconds
stdstring@stdstring-netlabs:~$
```

Открытых портов не обнаружено (все порты в ignored состоянии).

#### 4. Проверяю хост 192.168.1.107:

```
net.labs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
File Edit View Terminal Tabs Help
stdstring@stdstring-netlabs:~$ nmap -F 192.168.1.107
Starting Nmap 7.945VN ( https://nmap.org ) at 2025-09-13 18:13 +05
Nmap scan report for 192.168.1.107
Host is up (0.0036s latency).
All 100 scanned ports on 192.168.1.107 are in ignored states.
Not shown: 100 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.58 seconds
stdstring@stdstring-netlabs:~$ nmap --top-ports 1000 192.168.1.107
Starting Nmap 7.945VN ( https://nmap.org ) at 2025-09-13 18:14 +05
Nmap scan report for 192.168.1.107
Host is up (0.0024s latency).
All 1000 scanned ports on 192.168.1.107 are in ignored states.
Not shown: 1000 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.43 seconds
stdstring@stdstring-netlabs:~$
```

Открытых портов не обнаружено (все порты в ignored состоянии).

#### 5. Проверяю хост 192.168.1.140 (исходный хост):

```
net.labs [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal - stdstring@stdstring-netlabs: ~
File Edit View Terminal Tabs Help
stdstring@stdstring-netlabs:~$ nmap -F 192.168.1.140
Starting Nmap 7.945VN ( https://nmap.org ) at 2025-09-13 18:14 +05
Nmap scan report for stdstring-netlabs (192.168.1.140)
Host is up (0.000054s latency).
All 100 scanned ports on stdstring-netlabs (192.168.1.140) are in ignored states.
Not shown: 100 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.54 seconds
stdstring@stdstring-netlabs:~$ nmap --top-ports 1000 192.168.1.140
Starting Nmap 7.945VN ( https://nmap.org ) at 2025-09-13 18:14 +05
Nmap scan report for stdstring-netlabs (192.168.1.140)
Host is up (0.000053s latency).
All 1000 scanned ports on stdstring-netlabs (192.168.1.140) are in ignored states.
Not shown: 1000 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.05 seconds
stdstring@stdstring-netlabs:~$ nmap --top-ports 10000 192.168.1.140
Starting Nmap 7.945VN ( https://nmap.org ) at 2025-09-13 18:14 +05
Nmap scan report for stdstring-netlabs (192.168.1.140)
Host is up (0.000053s latency).
All 8368 scanned ports on stdstring-netlabs (192.168.1.140) are in ignored states.
Not shown: 8368 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 1.12 seconds
stdstring@stdstring-netlabs:~$
```

Открытых портов не обнаружено (все порты в ignored состоянии).

Можно еще определить версии служб на хостах, на которых есть открытые порты:

## 1. Проверяю хост 192.168.1.1 (маршрутизатор):

2. Проверяю хост 192.168.1.2:

A screenshot of a terminal window titled "Terminal - stdstring@stdstring-netlabs:~". The window displays the output of an Nmap scan against the IP address 192.168.1.2. The results show various open ports and services running on the target host, including Microsoft Windows RPC (135/tcp), NetBIOS-SSN (139/tcp), Microsoft-DS (445/tcp), VMDP (2179/tcp), Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP) (80/tcp), and PostgreSQL (5432/tcp). The terminal also shows service detection information and a note about reporting incorrect results. The bottom of the screen shows the Windows taskbar with icons for File Explorer, Task View, Start, Search, Taskbar settings, and system status.