



**INSTITUTO SUPERIOR POLITÉCNICO DE TECNOLOGIAS E CIÊNCIAS
DEPARTAMENTO DE ENGENHARIAS E TECNOLOGIAS
CURSO DE ENGENHARIA INFORMÁTICA**

REDES DE COMPUTADORES 1

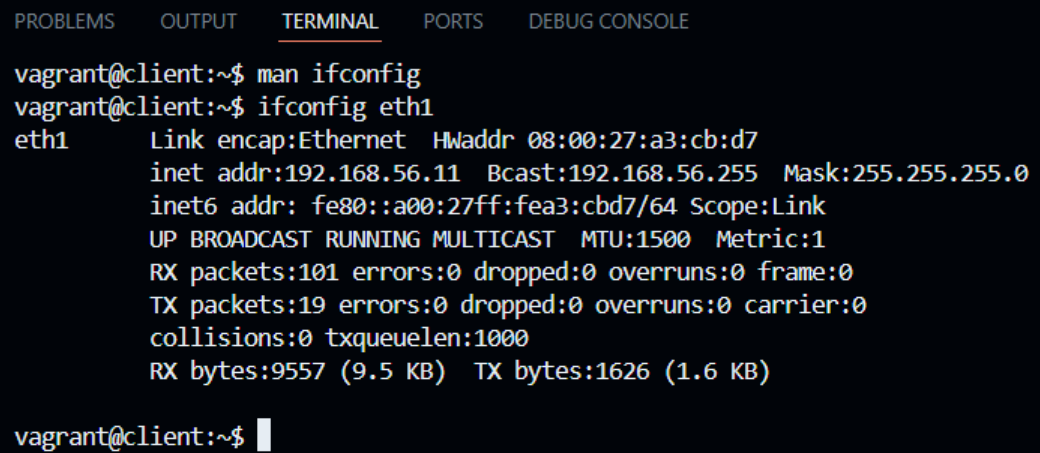
Memorando

LAB 4 Ferramentas de Rede, E-mail (SMTP, POP3)

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1. Captura de tela do comando `ifconfig` com informações sobre a interface ethernet com o endereçamento privado, na máquina cliente.



The screenshot shows a terminal window with a dark background and light-colored text. At the top, there are tabs labeled 'PROBLEMS', 'OUTPUT', 'TERMINAL' (which is selected and underlined), 'PORTS', and 'DEBUG CONSOLE'. The terminal content shows the user 'vagrant' at the 'client' machine in the home directory. They first run 'man ifconfig' and then 'ifconfig eth1'. The output for 'eth1' displays various network parameters: link encapsulation (Ethernet), hardware address (08:00:27:a3:cb:d7), IPv4 address (192.168.56.11) with broadcast (192.168.56.255) and mask (255.255.255.0), IPv6 address (fe80::a00:27ff:fea3:cbd7/64) with scope (Link), and operational status (UP, BROADCAST, RUNNING, MULTICAST). It also shows MTU (1500), metric (1), and statistics for RX and TX packets, errors, drops, overruns, carrier, collisions, and queue lengths. Finally, it shows RX and TX bytes in KB. The prompt returns to 'vagrant@client:~\$' with a cursor.

```
PROBLEMS  OUTPUT  TERMINAL  PORTS  DEBUG CONSOLE

vagrant@client:~$ man ifconfig
vagrant@client:~$ ifconfig eth1
eth1      Link encap:Ethernet  HWaddr 08:00:27:a3:cb:d7
          inet addr:192.168.56.11  Bcast:192.168.56.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fea3:cbd7/64  Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:101 errors:0 dropped:0 overruns:0 frame:0
          TX packets:19 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:9557 (9.5 KB)  TX bytes:1626 (1.6 KB)

vagrant@client:~$
```

2. Captura de tela dos resultados do segundo comando nmap

```
vagrant@client:~$ nmap -sP 192.168.1.0/24
```

```
Starting Nmap 6.40 ( http://nmap.org ) at 2024-11-23 11:41 UTC  
Nmap done: 256 IP addresses (0 hosts up) scanned in 104.28 seconds  
vagrant@client:~$
```

```
vagrant@client:~$ nmap -v scanme.nmap.org
```

```
Starting Nmap 6.40 ( http://nmap.org ) at 2024-11-23 11:43 UTC  
Initiating Ping Scan at 11:43  
Scanning scanme.nmap.org (45.33.32.156) [2 ports]  
Completed Ping Scan at 11:43, 4.72s elapsed (1 total hosts)  
Initiating Parallel DNS resolution of 1 host. at 11:43  
Completed Parallel DNS resolution of 1 host. at 11:43, 4.98s elapsed  
Initiating Connect Scan at 11:43  
Scanning scanme.nmap.org (45.33.32.156) [1000 ports]  
Discovered open port 80/tcp on 45.33.32.156  
Discovered open port 22/tcp on 45.33.32.156  
Discovered open port 9929/tcp on 45.33.32.156  
Discovered open port 31337/tcp on 45.33.32.156  
Completed Connect Scan at 11:44, 29.10s elapsed (1000 total ports)  
Nmap scan report for scanme.nmap.org (45.33.32.156)  
Host is up (0.49s latency).  
Not shown: 996 filtered ports  
PORT      STATE SERVICE  
22/tcp    open  ssh  
80/tcp    open  http  
9929/tcp  open  nping-echo  
31337/tcp open  Elite  
  
Read data files from: /usr/bin/./share/nmap  
Nmap done: 1 IP address (1 host up) scanned in 39.16 seconds  
vagrant@client:~$
```

3. Copie da janela Terminal o texto resultante da interação com o servidor SMTP, para enviar.

```
vagrant@client:~$ telnet smtp.mailtrap.io 2525
m.
Escape character is '^]'.
220 smtp.mailtrap.io ESMTP ready
EHLO smtp.mailtrap.io
250-smtp.mailtrap.io
250-SIZE 5242880
250-PIPELINING
250-ENHANCEDSTATUSCODES
250-8BITMIME
250-DSN
250-AUTH PLAIN LOGIN CRAM-MD5
250 STARTTLS
Connection closed by foreign host.
vagrant@client:~$ telnet smtp.mailtrap.io 2525
Trying 18.215.44.90...
Connected to mailsend-smtp-classic-f3a4534c019a3e96.elb.us-
east-1.amazonaws.com.
Escape character is '^]'.
220 smtp.mailtrap.io ESMTP ready
AUTH LOGIN
334 VXNlcm5hbWU6
ZTM5OTNkZDg1ZWVhNDU=
334 UGFzc3dvcmQ6
MDU1ODgxNTAxOTQ4YWY=
235 2.0.0 OK
MAIL FROM: <from@smtp.mailtrap.io>
250 2.1.0 Ok
RCPT TO: <to@smtp.mailtrap.io>
250 2.1.0 Ok
DATA
354 Go ahead
To: to@smtp.mailtrap.io
From: from@smtp.mailtrap.io
Subject: Hello world!
This is the test message...
.
250 2.0.0 Ok: queued
quit
221 2.0.0 Bye
Connection closed by foreign host.
```