

## Windows

### 1. Ipconfig

```
PS C:\Users\vinic> ipconfig

Configuração de IP do Windows

Adaptador Ethernet Ethernet 2:

    Sufixo DNS específico de conexão. . . . . : 
    Endereço IPv6 de link local . . . . . : fe80::1933:1332:c98e:7b%9
    Endereço IPv4. . . . . : 192.168.56.1
    Máscara de Sub-rede . . . . . : 255.255.255.0
    Gateway Padrão. . . . . : 

Adaptador de Rede sem Fio Conexão Local* 1:

    Estado da mídia. . . . . : mídia desconectada
    Sufixo DNS específico de conexão. . . . . : 

Adaptador de Rede sem Fio Conexão Local* 3:

    Estado da mídia. . . . . : mídia desconectada
    Sufixo DNS específico de conexão. . . . . : 

Adaptador de Rede sem Fio Wi-Fi:

    Sufixo DNS específico de conexão. . . . . : home
    Endereço IPv6 de link local . . . . . : fe80::f9f4:87c7:2a66:8444%17
    Endereço IPv4. . . . . : 192.168.1.38
    Máscara de Sub-rede . . . . . : 255.255.255.0
    Gateway Padrão. . . . . : 192.168.1.1

Adaptador Ethernet Ethernet:

    Estado da mídia. . . . . : mídia desconectada
    Sufixo DNS específico de conexão. . . . . : 
PS C:\Users\vinic> |
```

## 2. Ping

```
C:\Users\vinic>ping -a www.google.com

Disparando www.google.com [172.217.29.100] com 32 bytes de dados:
Resposta de 172.217.29.100: bytes=32 tempo=7ms TTL=118
Resposta de 172.217.29.100: bytes=32 tempo=3ms TTL=118
Resposta de 172.217.29.100: bytes=32 tempo=3ms TTL=118
Resposta de 172.217.29.100: bytes=32 tempo=3ms TTL=118

Estatísticas do Ping para 172.217.29.100:
    Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de
        perda),
Aproximar um número redondo de vezes em milissegundos:
    Mínimo = 3ms, Máximo = 7ms, Média = 4ms

C:\Users\vinic>
```

## 3. Tracert

```
C:\Users\vinic>tracert -d www.google.com

Rastreando a rota para www.google.com [172.217.29.100]
com no máximo 30 saltos:

  1      <1 ms      <1 ms      <1 ms      192.168.1.1
  2         3 ms        2 ms        2 ms      10.42.112.102
  3         5 ms        4 ms        4 ms      10.40.65.41
  4        47 ms        3 ms        3 ms      10.223.238.238
  5         5 ms        4 ms        3 ms      209.85.149.4
  6         4 ms        4 ms        4 ms      142.251.69.137
  7         5 ms        4 ms        4 ms      108.170.248.215
  8         3 ms        3 ms        3 ms      172.217.29.100

Rastreamento concluído.

C:\Users\vinic>
```

#### 4. Pathping

```
C:\Users\vinic>pathping -n www.google.com.br

Rastreando a rota para www.google.com.br [172.217.29.227]
com no máximo 30 saltos:
 0  192.168.1.39
 1  192.168.1.1
 2  10.42.112.102
 3  10.40.65.41
 4  10.223.238.238
 5  209.85.149.4
 6  142.251.69.137
 7  192.178.110.179
 8  172.217.29.227

Calculando estatísticas para 200 segundos...
Origem aqui      Este nó/Vínculo
Perdido/Enviado  Perdido/Enviado
Salto RTT        = Pct      = Pct      Endereço
0
1  2ms          0/ 100 = 0%      0/ 100 = 0%  192.168.1.1
2  2ms          0/ 100 = 0%      0/ 100 = 0%  10.42.112.102
3  ---         100/ 100 =100%    100/ 100 =100% 10.40.65.41
4  ---         100/ 100 =100%    100/ 100 =100% 10.223.238.238
5  6ms          0/ 100 = 0%      0/ 100 = 0%  209.85.149.4
6  6ms          0/ 100 = 0%      0/ 100 = 0%  142.251.69.137
7  ---         100/ 100 =100%    100/ 100 =100% 192.178.110.179
8  4ms          0/ 100 = 0%      0/ 100 = 0%  172.217.29.227

Rastreamento concluído.

C:\Users\vinic>
```

#### 5. Getmac

```
PS C:\Users\vinic> getmac

Endereço físico      Nome de transporte
=====
12-E5-56-41-E0-52    \Device\Tcpip_{EDB33A2E-D88F-4779-BF0C-C6C54907B244}
70-69-79-AA-26-AF    Mídia desconectada
0A-00-27-00-00-09    \Device\Tcpip_{45432E42-9260-4AD7-AC0B-2CF75CD18ECE}
PS C:\Users\vinic> |
```

## 6. Hostname

```
PS C:\Users\vinic> hostname  
ViniciusAoki  
PS C:\Users\vinic> |
```

## 7. Nslookup

```
PS C:\Users\vinic> nslookup  
Servidor Padrão: MyRouter  
Address: 192.168.1.1  
  
> www.google.com  
Servidor: MyRouter  
Address: 192.168.1.1  
  
Não é resposta autoritativa:  
Nome: www.google.com  
Addresses: 2800:3f0:4001:833::2004  
172.217.29.100  
  
> www.github.com  
Servidor: MyRouter  
Address: 192.168.1.1  
  
Não é resposta autoritativa:  
Nome: github.com  
Address: 20.201.28.151  
Aliases: www.github.com  
  
>  
PS C:\Users\vinic> |
```

## 8. Netstat

```
PS C:\Users\vinic> netstat
```

Conexões ativas

Proto	Endereço local	Endereço externo	Estado
TCP	127.0.0.1:49669	ViniciusAoki:49670	ESTABLISHED
TCP	127.0.0.1:49670	ViniciusAoki:49669	ESTABLISHED
TCP	127.0.0.1:49671	ViniciusAoki:49672	ESTABLISHED
TCP	127.0.0.1:49672	ViniciusAoki:49671	ESTABLISHED
TCP	127.0.0.1:53767	ViniciusAoki:53777	ESTABLISHED
TCP	127.0.0.1:53768	ViniciusAoki:53776	ESTABLISHED
TCP	127.0.0.1:53776	ViniciusAoki:53768	ESTABLISHED
TCP	127.0.0.1:53777	ViniciusAoki:53767	ESTABLISHED
TCP	192.168.1.38:49654	162.159.135.234:https	ESTABLISHED
TCP	192.168.1.38:49655	52.97.26.98:https	ESTABLISHED
TCP	192.168.1.38:49679	13.107.213.254:https	CLOSE_WAIT
TCP	192.168.1.38:49684	13.107.246.254:https	CLOSE_WAIT
TCP	192.168.1.38:49715	20.141.12.34:https	CLOSE_WAIT
TCP	192.168.1.38:49716	a2-18-127-239:https	CLOSE_WAIT
TCP	192.168.1.38:49723	20.189.173.18:https	ESTABLISHED
TCP	192.168.1.38:49729	52.104.3.55:https	ESTABLISHED
TCP	192.168.1.38:49746	32:https	CLOSE_WAIT
TCP	192.168.1.38:49747	35:https	CLOSE_WAIT
TCP	192.168.1.38:49749	186-230-63-161:https	CLOSE_WAIT
TCP	192.168.1.38:49751	65:https	ESTABLISHED
TCP	192.168.1.38:49754	ec2-23-21-48-28:https	CLOSE_WAIT
TCP	192.168.1.38:49755	a88-221-0-121:https	ESTABLISHED
TCP	192.168.1.38:49762	186-231-74-161:https	CLOSE_WAIT
TCP	192.168.1.38:49768	24:https	TIME_WAIT
TCP	192.168.1.38:49771	24:https	TIME_WAIT
TCP	192.168.1.38:49772	a88-221-0-98:https	ESTABLISHED
TCP	192.168.1.38:49773	a95-100-156-106:https	ESTABLISHED
TCP	192.168.1.38:49774	186-228-55-179:https	ESTABLISHED
TCP	192.168.1.38:49776	cdn-185-199-109-154:https	ESTABLISHED
TCP	192.168.1.38:49777	cdn-185-199-109-154:https	ESTABLISHED
TCP	192.168.1.38:49778	cdn-185-199-108-133:https	ESTABLISHED

```
PS C:\Users\vinic> |
```

## 9. Systeminfo

```
PS C:\Users\vinic> systeminfo

Nome do host: VINICIUSAOKI
Nome do sistema operacional: Microsoft Windows 11 Home Single Language
Versão do sistema operacional: 10.0.22631 N/A compilação 22631
Fabricante do sistema operacional: Microsoft Corporation
Configuração do SO: Estação de trabalho autônoma
Tipo de compilação do sistema operacional: Multiprocessor Free
Proprietário registrado: vinicius.eguchi@gmail.com
Organização registrada: N/A
Identificação do produto: 00342-43275-06506-AA0EM
Data da instalação original: 16/10/2022, 14:58:35
Tempo de Inicialização do Sistema: 04/11/2024, 10:18:44
Fabricante do sistema: Acer
Modelo do sistema: Nitro AN515-55
Tipo de sistema: x64-based PC
Processador(es): 1 processador(es) instalado(s).
[01]: Intel64 Family 6 Model 165 Stepping 2 GenuineIntel ~2496 Mhz
Insyde Corp. V2.06, 20/08/2021

Versão do BIOS:
Pasta do Windows: C:\WINDOWS
Pasta do sistema: C:\WINDOWS\system32
Inicializar dispositivo: \Device\HarddiskVolume2
Localidade do sistema: pt-br;Português (Brasil)
Localidade de entrada: pt-br;Português (Brasil)
Fuso horário: (UTC-03:00) Brasília
Memória física total: 16.215 MB
Memória física disponível: 6.760 MB
Memória Virtual: Tamanho Máximo: 18.391 MB
Memória Virtual: Disponível: 6.071 MB
Memória Virtual: Em Uso: 12.320 MB
Local(is) de arquivo de paginação: C:\pagefile.sys
Domínio: WORKGROUP
Servidor de Logon: \\VINICIUSAOKI
Hotfix(es): 5 hotfix(es) instalado(s).
[01]: KB5044033
[02]: KB5012170
[03]: KB5027397
[04]: KB5044285
[05]: KB5046247

Placa(s) de Rede: 3 NIC(s) instalado(s).
[01]: Intel(R) Wi-Fi 6 AX201 160MHz
Nome da conexão: Wi-Fi
DHCP ativado: Sim
Servidor DHCP: 192.168.1.1
Endereço(es) IP
[01]: 192.168.1.38
[02]: fe80::f9f4:87c7:2a66:8444
[02]: Killer E2600 Gigabit Ethernet Controller
Nome da conexão: Ethernet
Status: Mídia desconectada
[03]: VirtualBox Host-Only Ethernet Adapter
Nome da conexão: Ethernet 2
DHCP ativado: Não
Endereço(es) IP
[01]: 192.168.56.1
[02]: fe80::1933:1332:c98e:7b

Requisitos do Hyper-V: Hipervisor detectado. Recursos necessários para o Hyper-V não serão exibidos.
PS C:\Users\vinic>
```

## Linux

### 1. Ip

```
sptech@sptech:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:e1:f9:e2 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 85682sec preferred_lft 85682sec
    inet6 fe80::7b00:3593:b4e2:eb73/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
sptech@sptech:~$
```

### 2. Traceroute

```
sptech@sptech:~$ traceroute www.google.com
traceroute to www.google.com (172.217.29.100), 30 hops max, 60 byte packets
 1  _gateway (10.0.2.2)  0.261 ms  0.405 ms  0.244 ms
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  _gateway (10.0.2.2)  3.810 ms  4.163 ms  5.052 ms
sptech@sptech:~$
```

### 3. Tracepath

```
sptech@sptech:~$ tracepath www.google.com
1?: [LOCALHOST] pmtu 1500
 1:  _gateway 0.564ms
 1:  _gateway 0.543ms
 2:  _gateway 2.626ms reached
    Resume: pmtu 1500 hops 2 back 1
sptech@sptech:~$
```

#### 4. Ping

```
sptech@sptech:~$ ping www.google.com
PING www.google.com (172.217.29.100) 56(84) bytes of data.
64 bytes from gru09s19-in-f100.1e100.net (172.217.29.100): icmp_seq=1 ttl=117 time=4.67 ms
64 bytes from rio01s24-in-f4.1e100.net (172.217.29.100): icmp_seq=2 ttl=117 time=4.70 ms
64 bytes from pngrua-ac-in-f4.1e100.net (172.217.29.100): icmp_seq=3 ttl=117 time=4.23 ms
64 bytes from gru09s19-in-f100.1e100.net (172.217.29.100): icmp_seq=4 ttl=117 time=21.8 ms
64 bytes from pngrua-ac-in-f4.1e100.net (172.217.29.100): icmp_seq=5 ttl=117 time=4.51 ms
64 bytes from pngrua-ac-in-f4.1e100.net (172.217.29.100): icmp_seq=6 ttl=117 time=4.37 ms
64 bytes from rio01s24-in-f4.1e100.net (172.217.29.100): icmp_seq=7 ttl=117 time=4.31 ms
64 bytes from gru09s19-in-f100.1e100.net (172.217.29.100): icmp_seq=8 ttl=117 time=4.06 ms
64 bytes from rio01s24-in-f4.1e100.net (172.217.29.100): icmp_seq=9 ttl=117 time=4.12 ms
64 bytes from rio01s24-in-f4.1e100.net (172.217.29.100): icmp_seq=10 ttl=117 time=4.75 ms
^C
--- www.google.com ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9012ms
rtt min/avg/max/mdev = 4.064/6.154/21.838/5.232 ms
sptech@sptech:~$
```

#### 5. Ss

```
sptech@sptech:~$ ss -s
Total: 427
TCP: 7 (estab 0, closed 0, orphaned 0, timewait 0)

Transport Total      IP        IPv6
RAW          0          0         0
UDP          6          4         2
TCP          7          4         3
INET        13          8         5
FRAG         0          0         0
```



## 6. Dig

```
sptech@sptech:~$ dig

; <<>> DiG 9.18.18-0ubuntu0.22.04.2-Ubuntu <<>>
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 30926
;; flags: qr aa rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;                               IN      NS

;; Query time: 0 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Thu Nov 07 23:01:05 -03 2024
;; MSG SIZE rcvd: 28

sptech@sptech:~$
```

## 7. Host

```
sptech@sptech:~$ host www.google.com
www.google.com has address 172.217.29.100
www.google.com has IPv6 address 2800:3f0:4001:835::2004
sptech@sptech:~$
```

## 8. Hostname

```
sptech@sptech:~$ hostname
sptech
sptech@sptech:~$
```

## 9. Curl

```
sptech@sptech:~$ curl -V
curl 7.81.0 (x86_64-pc-linux-gnu) libcurl/7.81.0 OpenSSL/3.0.2 zlib/1.2.11 brotli/1.0
.9 zstd/1.4.8 libidn2/2.3.2 libpsl/0.21.0 (+libidn2/2.3.2) libssh/0.9.6/openssl/zlib
nghttp2/1.43.0 librtmp/2.3 OpenLDAP/2.5.17
Release-Date: 2022-01-05
Protocols: dict file ftp ftps gopher gophers http https imap imaps ldap ldaps mqtt po
p3 pop3s rtmp rtsp scp sftp smb smbs smtp smtps telnet tftp
Features: alt-svc AsynchDNS brotli GSS-API HSTS HTTP2 HTTPS-proxy IDN IPv6 Kerberos L
argefile libz NTLM NTLM_WB PSL SPNEGO SSL TLS-SRP UnixSockets zstd
sptech@sptech:~$
```

## 10. Mtr

```
My traceroute [v0.95]
sptech (:::1) -> localhost (:::1) 2024-11-09T21:34:33-0300
Keys: Help  Display mode  Restart statistics  Order of fields  quit
      Packets
Host      Loss%  Snt  Last  Avg  Best  Wrst StDev
1. localhost 0.0%   18   0.0   0.0   0.0   0.1   0.0
```

## 11. Whois

```
sptech@sptech:~$ whois google.com
Domain Name: GOOGLE.COM
Registry Domain ID: 2138514_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2019-09-09T15:39:04Z
Creation Date: 1997-09-15T04:00:00Z
Registry Expiry Date: 2028-09-14T04:00:00Z
Registrar: MarkMonitor Inc.
Registrar IANA ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2086851750
Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited
Name Server: NS1.GOOGLE.COM
Name Server: NS2.GOOGLE.COM
Name Server: NS3.GOOGLE.COM
Name Server: NS4.GOOGLE.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2024-11-10T00:39:41Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

NOTICE: The expiration date displayed in this record is the date the
```

## 12. Ifplugstatus

```
sptech@sptech:~$ ifplugstatus
lo: link beat detected
enp0s3: link beat detected
sptech@sptech:~$
```

### 13. Iftop

```
sptech@sptech:~$ iftop
interface: enp0s3
IP address is: 10.0.2.15
MAC address is: 08:00:27:e1:f9:e2
pcap_open_live(enp0s3): enp0s3: You don't have permission to capture on that device (
socket: Operação não permitida)
sptech@sptech:~$
```

### 14. Tcpdump

```
sptech@sptech:~$ sudo tcpdump -c 10 -i enp0s3
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on enp0s3, link-type EN10MB (Ethernet), snapshot length 262144 bytes
21:59:57.115231 IP sptech.58719 > MyRouter.domain: 6069+ [1au] A? detectportal.firefo
x.com. (53)
21:59:57.115757 IP sptech.51232 > MyRouter.domain: 33104+ [1au] AAAA? detectportal.fi
refox.com. (53)
21:59:57.121499 IP MyRouter.domain > sptech.58719: 6069 3/0/1 CNAME detectportal.pro
d.mozaws.net., CNAME prod.detectportal.prod.cloudops.mozgcp.net., A 34.107.221.82 (164
)
21:59:57.121517 IP MyRouter.domain > sptech.51232: 33104 3/0/1 CNAME detectportal.pro
d.mozaws.net., CNAME prod.detectportal.prod.cloudops.mozgcp.net., AAAA 2600:1901:0:38
d7:: (176)
21:59:57.174389 IP sptech.46791 > MyRouter.domain: 33958+ [1au] PTR? 1.1.168.192.in-a
ddr.arpa. (53)
21:59:57.178241 IP MyRouter.domain > sptech.46791: 33958* 1/0/1 PTR MyRouter. (75)
21:59:57.178584 IP sptech.60642 > MyRouter.domain: 28293+ [1au] PTR? 15.2.0.10.in-add
r.arpa. (51)
21:59:57.180799 IP MyRouter.domain > sptech.60642: 28293 NXDomain* 0/0/1 (51)
21:59:57.180906 IP sptech.60642 > MyRouter.domain: 28293+ PTR? 15.2.0.10.in-addr.arpa
. (40)
21:59:57.182754 IP MyRouter.domain > sptech.60642: 28293 NXDomain* 0/0/0 (40)
10 packets captured
10 packets received by filter
0 packets dropped by kernel
sptech@sptech:~$
```

## 15. Ettool

```
sptech@sptech:~$ ethtool enp0s3
Settings for enp0s3:
    Supported ports: [ TP ]
    Supported link modes:   10baseT/Half 10baseT/Full
                           100baseT/Half 100baseT/Full
                           1000baseT/Full

    Supported pause frame use: No
    Supports auto-negotiation: Yes
    Supported FEC modes: Not reported
    Advertised link modes:  10baseT/Half 10baseT/Full
                           100baseT/Half 100baseT/Full
                           1000baseT/Full

    Advertised pause frame use: No
    Advertised auto-negotiation: Yes
    Advertised FEC modes: Not reported
    Speed: 1000Mb/s
    Duplex: Full
    Auto-negotiation: on
    Port: Twisted Pair
    PHYAD: 0
    Transceiver: internal
    MDI-X: off (auto)
netlink error: Operation not permitted
    Current message level: 0x00000007 (7)
                           drv probe link

    Link detected: yes
sptech@sptech:~$
```

## 16. Nmcli

```
sptech@sptech:~$ nmcli
enp0s3: conectado para Conexão cabeada 1
    "Intel 82540EM"
    ethernet (e1000), 08:00:27:E1:F9:E2, hw, mtu 1500
    padrão ip4
    inet4 10.0.2.15/24
    route4 10.0.2.0/24 metric 100
    route4 default via 10.0.2.2 metric 100
    inet6 fe80::7b00:3593:b4e2:eb73/64
    route6 fe80::/64 metric 1024

lo: não gerenciável
    "lo"
    loopback (unknown), 00:00:00:00:00:00, sw, mtu 65536

DNS configuration:
    servers: 192.168.1.1
    domains: home
    interface: enp0s3

Use "nmcli device show" para obter informações completas sobre dispositivos
conhecidos e "nmcli connection show" para obter uma visão geral sobre perfis
de conexão ativa.

Consulte as páginas de manual nmcli(1) e nmcli-examples(7) para detalhes
completos de uso.
sptech@sptech:~$
```

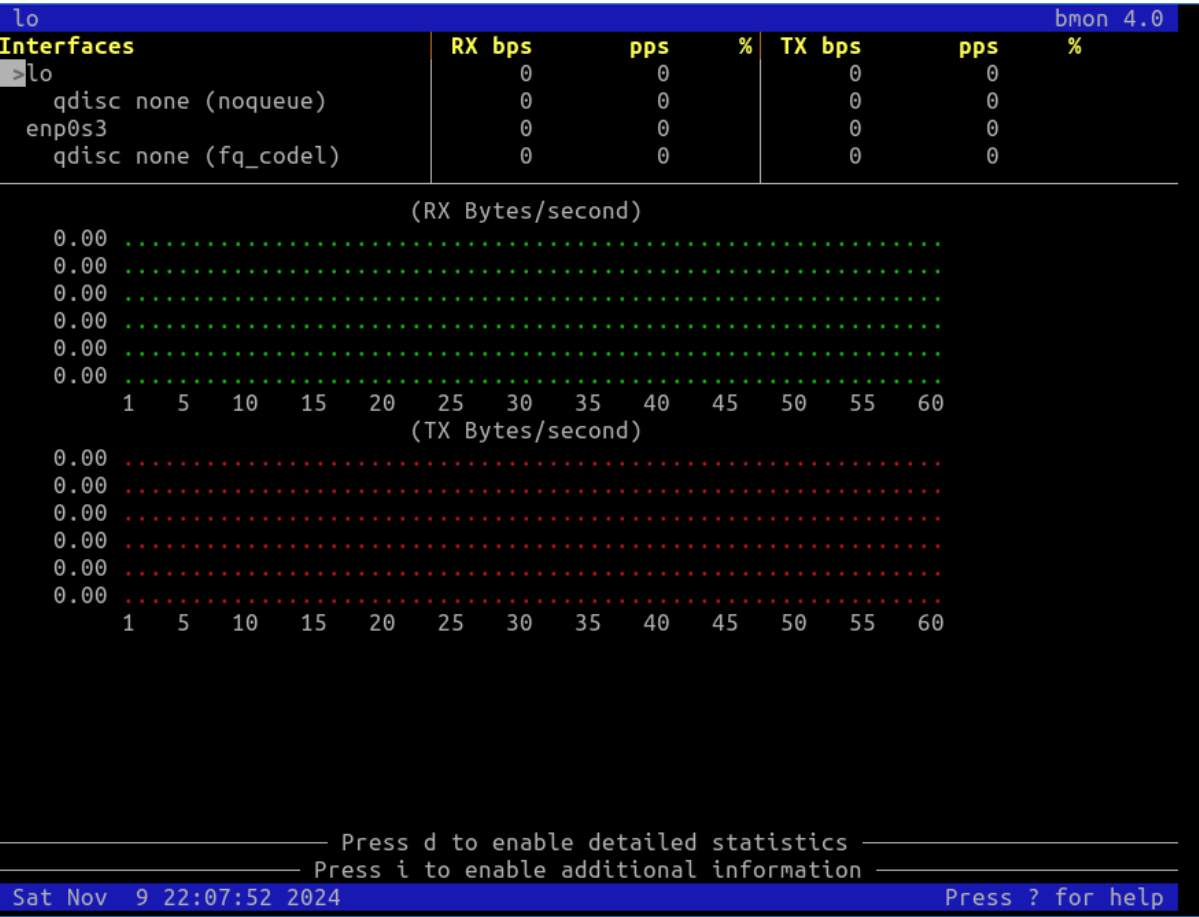


17.Nmap

```
sptech@sptech:~$ nmap www.google.com
Starting Nmap 7.80 ( https://nmap.org ) at 2024-11-09 22:05 -03
Nmap scan report for www.google.com (172.217.29.100)
Host is up (0.0092s latency).
Other addresses for www.google.com (not scanned): 2800:3f0:4001:835::2004
rDNS record for 172.217.29.100: pnglua-ac-in-f4.1e100.net
Not shown: 998 filtered ports
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https

Nmap done: 1 IP address (1 host up) scanned in 4.57 seconds
sptech@sptech:~$
```

18.Bmon



## 19. Firewallld

```
sptech@sptech:~$ firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3
  sources:
  services: dhcpv6-client ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
sptech@sptech:~$
```

## 20. Iperf

```
sptech@sptech:~$ iperf -s
-----
Server listening on TCP port 5001
TCP window size: 128 KByte (default)
-----
█
```

## 21. Speedtest-cli

```
sptech@sptech:~$ speedtest-cli
Retrieving speedtest.net configuration...
Testing from TIM Brasil (177.121.4.154)...
Retrieving speedtest.net server list...
Selecting best server based on ping...
Hosted by JETNETWORK (Cubatão) [36.64 km]: 21.318 ms
Testing download speed.....
.....
Download: 253.52 Mbit/s
Testing upload speed.....
.....
Upload: 79.51 Mbit/s
sptech@sptech:~$
```

## 22. Vnstat

```
sptech@sptech:~$ vnstat -i enp0s3
enp0s3: Not enough data available yet.
sptech@sptech:~$
```