

Testes de conexão

Com todas as VMs conectadas no mesmo segmento de LAN e o pfSense devidamente instalado e configurado conforme o guia anterior, agora é hora de realizarmos testes de conexões na rede.

Para tal teste utilizaremos 3 VMs (Debian com apache, pfSense, o uma máquina virtual Linux com interface).

IPs das máquinas virtuais:

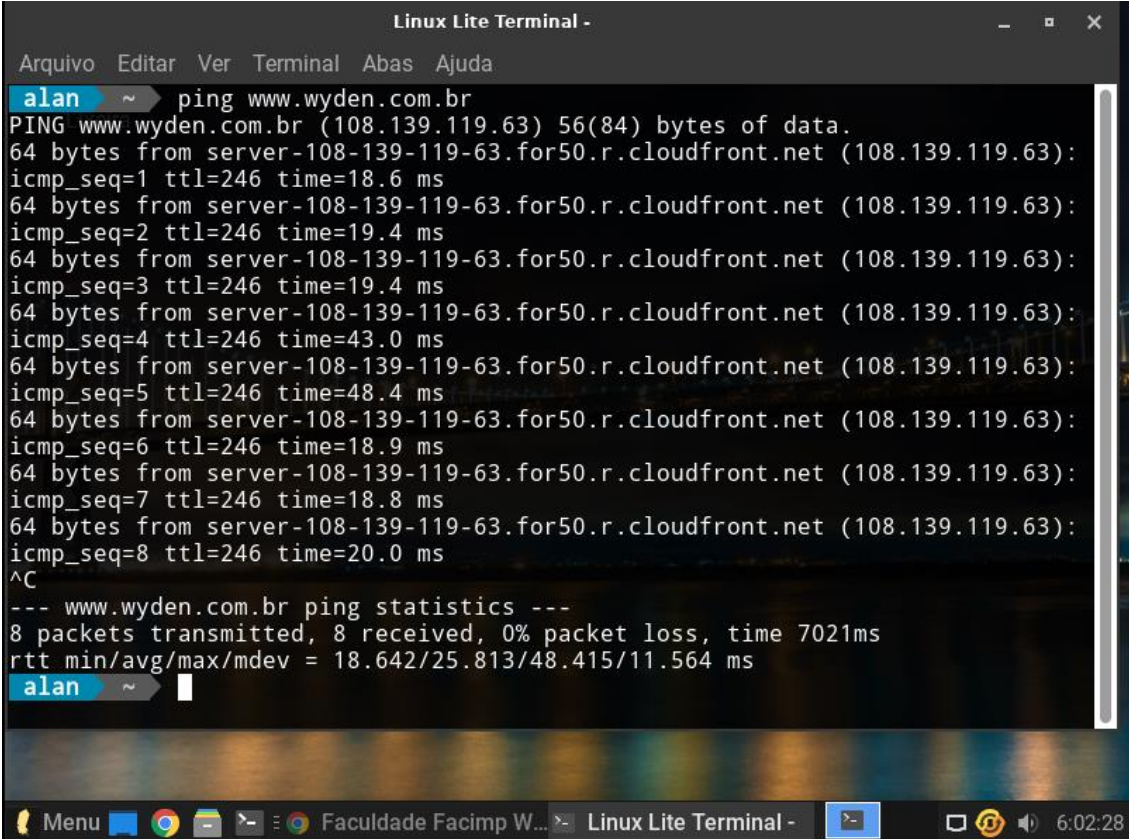
Debian (Apache): 192.168.1.101

Linux Lite: 192.168.1.102

pfSense: 192.168.1.1 (LAN), 192.168.0.110 (WAN)

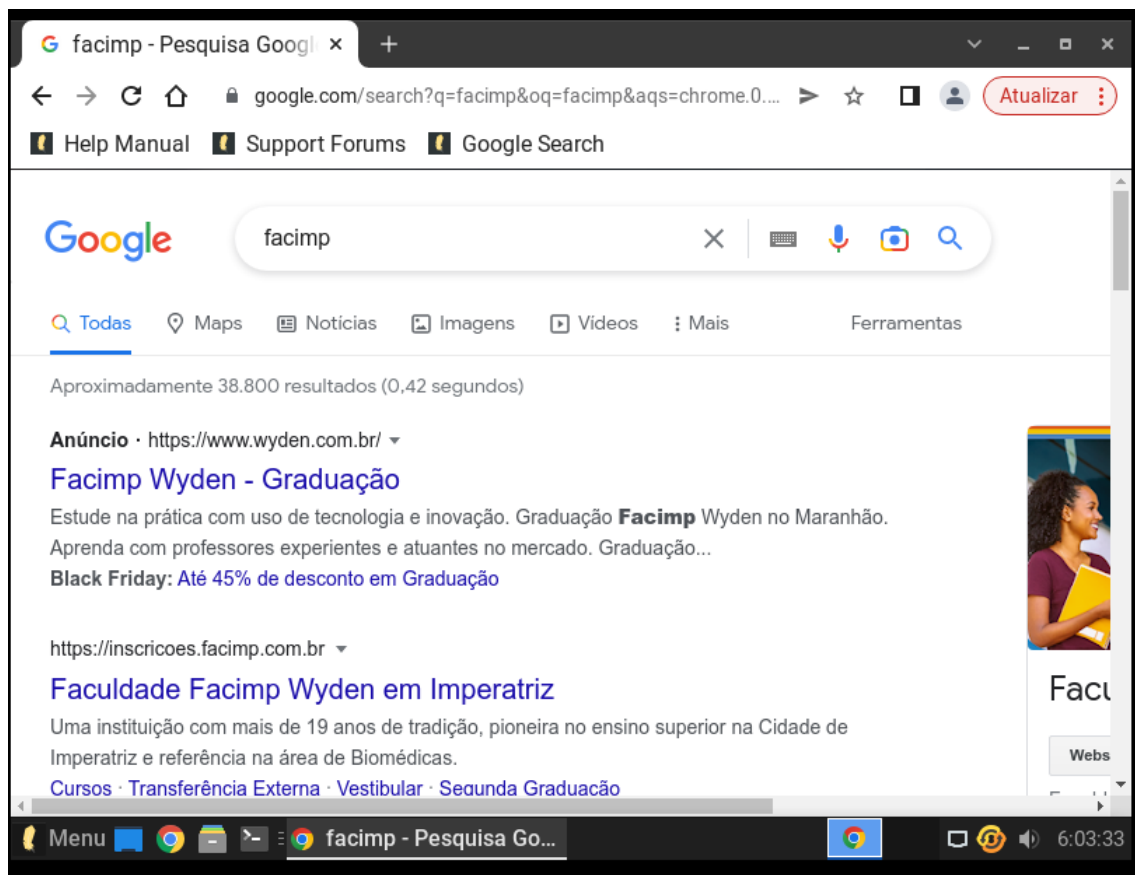
Testes de conexão:

Teste com o comando PING:

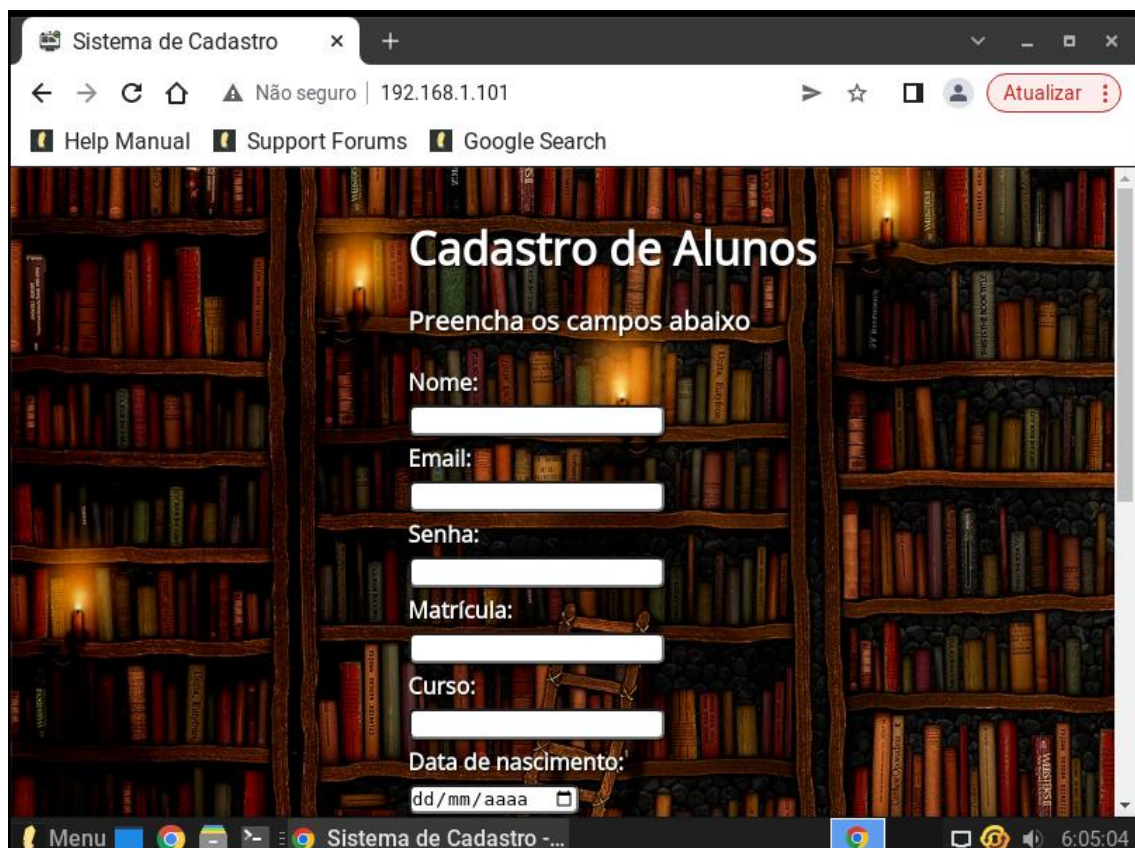


```
Linux Lite Terminal -
Arquivo Editar Ver Terminal Abas Ajuda
alan ~ ping www.wyden.com.br
PING www.wyden.com.br (108.139.119.63) 56(84) bytes of data:
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=1 ttl=246 time=18.6 ms
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=2 ttl=246 time=19.4 ms
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=3 ttl=246 time=19.4 ms
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=4 ttl=246 time=43.0 ms
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=5 ttl=246 time=48.4 ms
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=6 ttl=246 time=18.9 ms
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=7 ttl=246 time=18.8 ms
64 bytes from server-108-139-119-63.for50.r.cloudfront.net (108.139.119.63):
icmp_seq=8 ttl=246 time=20.0 ms
^C
--- www.wyden.com.br ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7021ms
rtt min/avg/max/mdev = 18.642/25.813/48.415/11.564 ms
alan ~
```

Acesso à internet via navegador Chrome.



Conexão com o localhost Debian (Apache) funcional.



Tráfego de rede visto com o WireShark:

The screenshot shows the Wireshark interface with a packet capture on interface ens33. The main display area shows a list of 17 captured packets, all of which are UDP or DNS. The packet list table is as follows:

| No. | Time | Source | Destination | Protocol | Length | Info |
|------|-------------|----------------|----------------|----------|--------|--------------------------------|
| 1772 | 6.971750609 | 192.168.1.102 | 142.251.132.10 | UDP | 178 | 33573 → 443 Len=136 |
| 1773 | 6.973462393 | 192.168.1.102 | 142.251.132.10 | UDP | 138 | 33573 → 443 Len=96 |
| 1774 | 7.005652551 | 142.251.132.10 | 192.168.1.102 | UDP | 71 | 443 → 33573 Len=29 |
| 1775 | 7.007152246 | 142.251.132.10 | 192.168.1.102 | UDP | 71 | 443 → 33573 Len=29 |
| 1776 | 7.010468912 | 192.168.1.102 | 142.251.132.10 | UDP | 75 | 33573 → 443 Len=33 |
| 1777 | 7.056261110 | 142.251.132.10 | 192.168.1.102 | UDP | 844 | 443 → 33573 Len=802 |
| 1778 | 7.056533636 | 192.168.1.102 | 142.251.132.10 | UDP | 77 | 33573 → 443 Len=35 |
| 1779 | 7.058009132 | 142.251.132.10 | 192.168.1.102 | UDP | 76 | 443 → 33573 Len=34 |
| 1780 | 7.058009583 | 142.251.132.10 | 192.168.1.102 | UDP | 171 | 443 → 33573 Len=129 |
| 1781 | 7.062102938 | 192.168.1.102 | 142.251.132.10 | UDP | 75 | 33573 → 443 Len=33 |
| 1782 | 7.063874221 | 142.251.132.10 | 192.168.1.102 | UDP | 633 | 443 → 33573 Len=591 |
| 1783 | 7.064697535 | 192.168.1.102 | 142.251.132.10 | UDP | 77 | 33573 → 443 Len=35 |
| 1784 | 7.065292002 | 142.251.132.10 | 192.168.1.102 | UDP | 76 | 443 → 33573 Len=34 |
| 1785 | 7.065540169 | 142.251.132.10 | 192.168.1.102 | UDP | 240 | 443 → 33573 Len=198 |
| 1786 | 7.067116642 | 192.168.1.102 | 142.251.132.10 | UDP | 75 | 33573 → 443 Len=33 |
| 1787 | 7.097672366 | 142.251.132.10 | 192.168.1.102 | UDP | 67 | 443 → 33573 Len=25 |
| 1788 | 7.121009332 | 192.168.1.102 | 192.168.1.1 | DNS | 82 | Standard query 0xf923 A youtub |

Below the packet list, the details pane shows the structure of the first frame (Frame 1):

Frame 1: 198 bytes on wire (1584 bits), 198 bytes captured (1584 bits) on interface ens33, id 0

Ethernet II, Src: VMWare, encapsulation (00:0a:20:00:00:00), Data: VMWare, encapsulation (00:0a:20:00:00:00)

The packet bytes pane shows the raw data in hexadecimal and ASCII:

```
0000 00 0c 29 e7 4c 58 00 0c 29 ea cf bf 08 00 45 00  ..).LX...E..
0010 00 b8 1c c6 40 00 40 11 4b 04 c0 a8 01 66 8e fb  ...@.@.K...f..
0020 81 61 86 d8 01 bb 00 a4 d3 20 5f c8 00 91 66 51  .a....._...fQ
0030 f4 f7 2b 41 a7 fa e2 40 7a 4f dd f7 69 a3 91 52  ..+A...@ z0..i..R
0040 fb 33 1c 24 18 89 f8 bb eb 66 56 df 3a 8b a7 3a  .3.$....fV:...:
0050 53 02 fe 98 43 9b e7 6b 99 05 57 dc 8c c4 3e f1  S...C..k..W...>
0060 6e c5 9f 1f f2 4e 75 16 5b da 35 63 32 68 7f c6  n...Nu...[.5c2h..
0070 7c 00 53 da 40 a9 78 92 75 20 c0 1b 52 c0 31 a1  |.S.@.x..u..R.1.
```