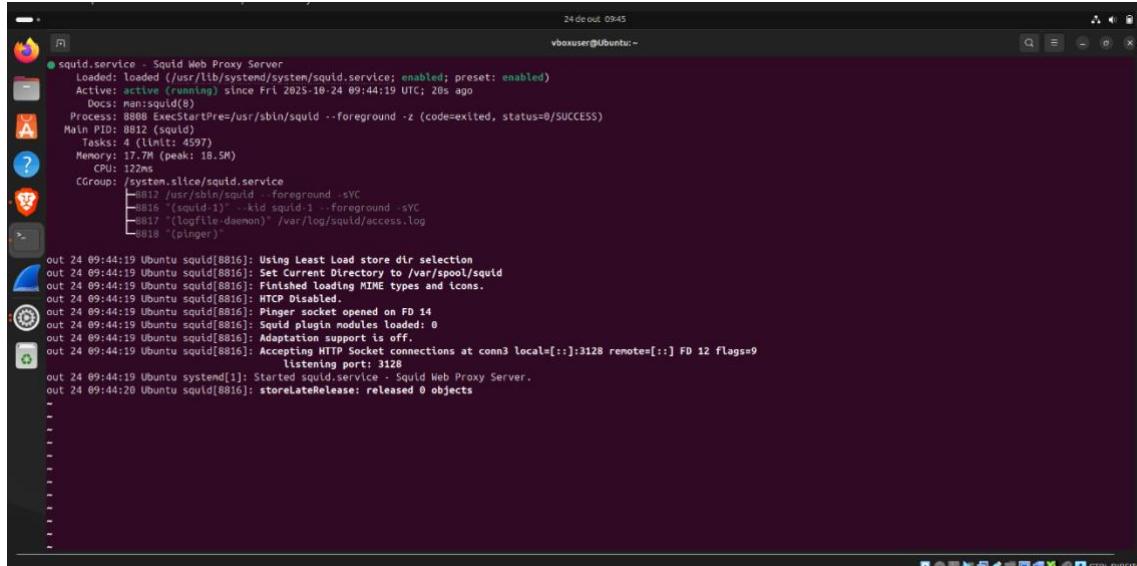


Francisco Martins

Miguel Marques

HTTP Proxy

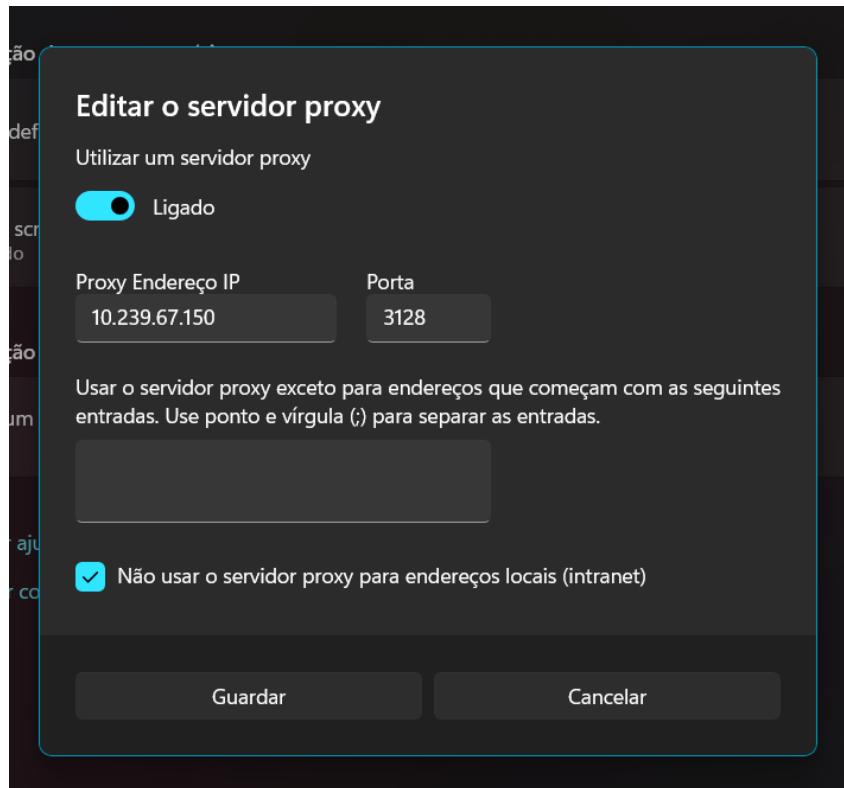
Menu de status do Squid



```
24 de out 09:45
vboxuser@Ubuntu:~$ sudo systemctl status squid.service
● squid.service - Squid Web Proxy Server
   Loaded: loaded (/usr/lib/systemd/system/squid.service; enabled; preset: enabled)
   Active: active (running) since Fri 2023-10-24 09:44:19 UTC; 20s ago
     Docs: man:squid(8)
 Main PID: 8802 (squid)
   Tasks: 4 (limit: 4597)
    Memory: 17.7M (peak: 18.5M)
      CPU: 122ms
     CGroup: /system.slice/squid.service
             ├─8812 /usr/sbin/squid --foreground -sYC
             ├─8816 "(squid-1)" --kid squid-1 --foreground -sYC
             ├─8817 "(logfile-daemon)" /var/log/squid/access.log
             ├─8818 "(pinger)"

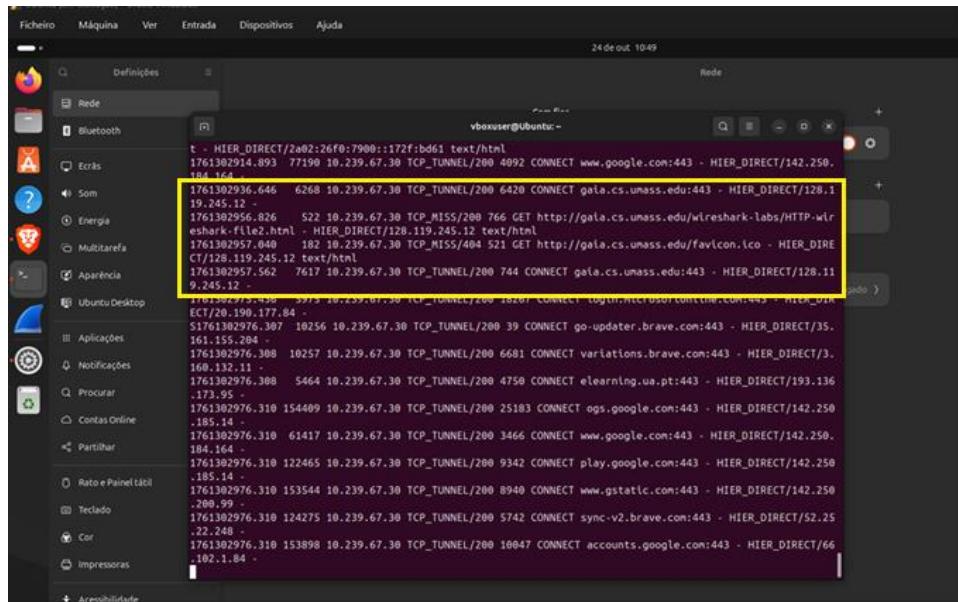
out 24 09:44:19 Ubuntu squid[8816]: Using Least Load store dir selection
out 24 09:44:19 Ubuntu squid[8816]: Set Current Directory to /var/spool/squid
out 24 09:44:19 Ubuntu squid[8816]: Finished loading MIME types and icons.
out 24 09:44:19 Ubuntu squid[8816]: HTTPC Disabled
out 24 09:44:19 Ubuntu squid[8816]: Pinger socket opened on FD 14
out 24 09:44:19 Ubuntu squid[8816]: Squid plugin modules loaded: 0
out 24 09:44:19 Ubuntu squid[8816]: Adaptation support is off.
out 24 09:44:19 Ubuntu squid[8816]: Accepting HTTP Socket connections at conn3 local=[::]:3128 remote=[::] FD 12 flags=9
          listening port: 3128
out 24 09:44:19 Ubuntu systemd[1]: Started squid.service - Squid Web Proxy Server.
out 24 09:44:20 Ubuntu squid[8816]: storeLateRelease: released 0 objects
-
```

IP e Porta do proxy na maquina real



EX4:

Foi usado este código “sudo tail -f /var/log/squid/access.log” para ver se o proxy estava a funcionar e abriu a seguinte aba:



De seguida fomos ao wireshark para confirmar e ver as diferenças, como esta marcado

No.	Time	Source	Destination	Protocol	Length	Info
76	29.768015	10.239.67.150	128.119.245.12	HTTP	603	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
79	30.036856	128.119.245.12	10.239.67.150	HTTP	796	HTTP/1.1 200 OK (text/html)
82	30.069881	10.239.67.150	128.119.245.12	HTTP	588	GET /favicon.ico HTTP/1.1
85	30.250988	128.119.245.12	10.239.67.150	HTTP	550	HTTP/1.1 404 Not Found (text/html)

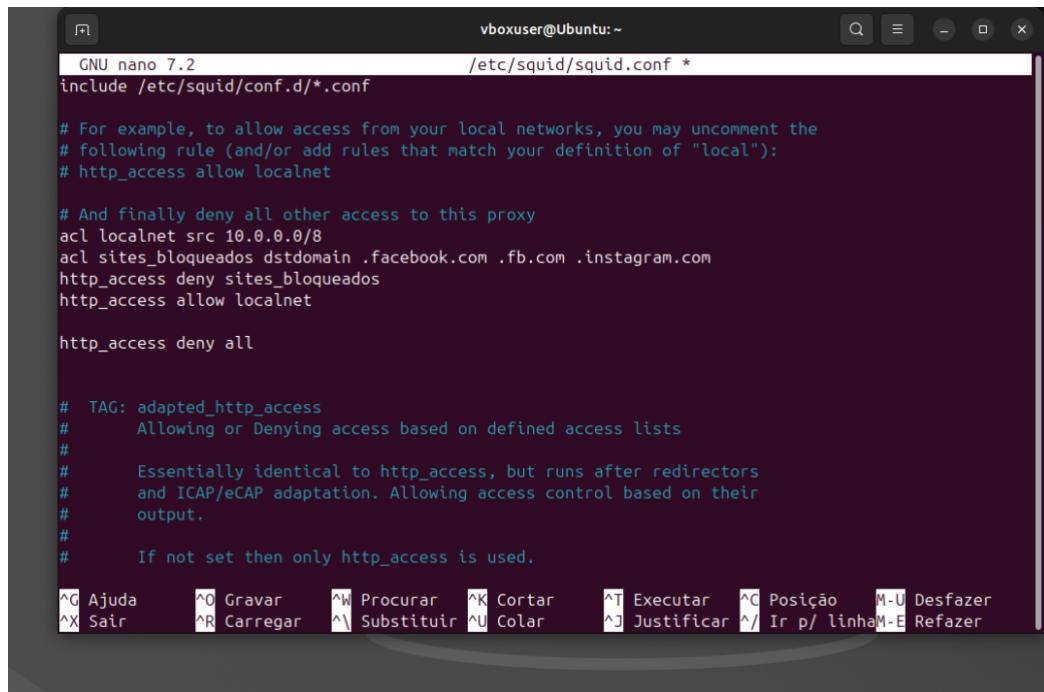

```
> Frame 76: 603 bytes on wire (4824 bits), 603 bytes captured (4824 bits) on interface \Device\NPF_{9090C02D-CA 0000 de aa ea a7 bb
> Ethernet II, Src: Intel_d7:9a:51 (c4:ff:99:d7:9a:51), Dst: de:aa:ea:a7:bb:e0 (de:aa:ea:a7:bb:e0)
> Internet Protocol Version 4, Src: 10.239.67.150, Dst: 128.119.245.12
> Transmission Control Protocol, Src Port: 60036, Dst Port: 80, Seq: 1, Ack: 1, Len: 537
> Hypertext Transfer Protocol
  > GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
  Host: gala.cs.umass.edu\r\n
  Upgrade-Insecure-Requests: 1\r\n
  User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/141.0.6924.102 Safari/537.36\r\n
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8\r\n
  Sec-GPC: 1\r\n
  Accept-Encoding: gzip, deflate\r\n
  Accept-Language: pt-PT,pt;q=0.9\r\n
  Via: 1.1 Ubuntu (squid/6.13)\r\n
  X-Forwarded-For: 10.239.67.30\r\n
  Cache-Control: max-age=259200\r\n
  Connection: keep-alive\r\n
  \r\n
  [Response in frame 79]
  [Full request URI: http://gala.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
```

Fomos ver o cache do Proxy

```
vboxuser@Ubuntu: ~$ /etc/squid/squid.conf.
bash: /etc/squid/squid.conf.: Ficheiro ou pasta inexistente
vboxuser@Ubuntu: ~$ /etc/squid/squid.conf.
bash: /etc/squid/squid.conf.: Ficheiro ou pasta inexistente
vboxuser@Ubuntu: ~$ sudo nano /etc/squid/squid.conf
vboxuser@Ubuntu: ~$ sudo systemctl stop squid
[sudo] senha para vboxuser:
vboxuser@Ubuntu: ~$ sudo mkdir -p /var/spool/squid
vboxuser@Ubuntu: ~$ sudo chown proxy:proxy /var/spool/squid
vboxuser@Ubuntu: ~$ sudo squid -z
2025/10/24 11:42:05 Processing Configuration File: /etc/squid/squid.conf (depth 0)
2025/10/24 11:42:05 Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/10/24 11:42:05 WARNING: (B) '10.0.0.0/8' is a subnetwork of (A) '10.0.0.0/8'
2025/10/24 11:42:05 WARNING: because of this '10.0.0.0/8' is ignored to keep splay tree searching predictable
2025/10/24 11:42:05 WARNING: You should probably remove '10.0.0.0/8' from the ACL named 'localnet'
2025/10/24 11:42:05 WARNING: (B) '10.0.0.0/8' is a subnetwork of (A) '10.0.0.0/8'
2025/10/24 11:42:05 WARNING: because of this '10.0.0.0/8' is ignored to keep splay tree searching predictable
2025/10/24 11:42:05 WARNING: You should probably remove '10.0.0.0/8' from the ACL named 'localnet'
2025/10/24 11:42:05 Created PID file (/run/squid.pid)
vboxuser@Ubuntu: ~$ sudo systemctl start squid
vboxuser@Ubuntu: ~$
```

```
1761306708.974 154918 10.239.67.30 TCP_TUNNEL/200 7470 CONNECT eu-mobile.events.data.microsoft.com:443 - HIER_DIRECT/10.239.67.30
1761306721.687 7072 10.239.67.30 TCP_TUNNEL/200 22963 CONNECT login.microsoftonline.com:443 - HIER_DIRECT/10.239.67.30
1761306721.687 1156 10.239.67.30 TCP_TUNNEL/200 4965 CONNECT graph.microsoft.com:443 - HIER_DIRECT/10.239.67.30
1761306724.612 2860 10.239.67.30 TCP_TUNNEL/200 6429 CONNECT fd.api.iris.microsoft.com:443 - HIER_DIRECT/10.239.67.30
1761306724.612 2059 10.239.67.30 TCP_TUNNEL/200 7866 CONNECT fd.api.iris.microsoft.com:443 - HIER_DIRECT/10.239.67.30
1761306737.990 7165 10.239.67.30 NONE_NONE_ABORTED/600 0 GET http://cnn.com/ - HIER_NONE/-
1761306758.085 91727 10.239.67.30 TCP_TUNNEL/200 6999 CONNECT eu-office.events.data.microsoft.com:443 - HIER_DIRECT/10.239.67.30
34 -
1761306758.742 62539 10.239.67.30 TCP_TUNNEL/200 688 CONNECT collector.wdp.brave.com:443 - HIER_DIRECT/10.239.67.30
1761306782.571 28485 10.239.67.30 TCP_TUNNEL/200 7812 CONNECT api2.paperblocker.com:443 - HIER_DIRECT/10.239.67.30
1761306811.225 20294 10.239.67.30 TCP_MISS/304 736 GET http://cnn.com/ - HIER_DIRECT/10.239.67.30
1761306812.746 24285 10.239.67.30 TCP_TUNNEL/200 358 CONNECT api2.paperblocker.com:443 - HIER_DIRECT/10.239.67.30
1761306821.701 668 10.239.67.30 TCP_TUNNEL/200 39 CONNECT media.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306821.701 238 10.239.67.30 TCP_TUNNEL/200 39 CONNECT media.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306821.701 238 10.239.67.30 TCP_TUNNEL/200 39 CONNECT media.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306821.925 196 10.239.67.30 TCP_TUNNEL/200 39 CONNECT edition.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306821.925 195 10.239.67.30 TCP_TUNNEL/200 39 CONNECT edition.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306821.927 197 10.239.67.30 TCP_TUNNEL/200 39 CONNECT edition.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306821.945 214 10.239.67.30 TCP_TUNNEL/200 39 CONNECT edition.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306821.945 215 10.239.67.30 TCP_TUNNEL/200 39 CONNECT edition.cnn.com:443 - HIER_DIRECT/10.239.67.30
1761306824.250 109993 10.239.67.30 TCP_TUNNEL/200 76646 CONNECT assets.msn.com:443 - HIER_DIRECT/10.239.67.30
1761306824.250 104160 10.239.67.30 TCP_TUNNEL/200 7684 CONNECT www.bing.com:443 - HIER_DIRECT/10.239.67.30
1761306832.257 107550 10.239.67.30 TCP_TUNNEL/200 6951 CONNECT eu-mobile.events.data.microsoft.com:443 - HIER_DIRECT/10.239.67.30
1761306834.108 338 10.239.67.30 TCP_TUNNEL/200 39 CONNECT media.cnn.com:443 - HIER_DIRECT/10.239.67.30
```

Bloqueamos o domínio



```
GNU nano 7.2          vboxuser@Ubuntu:~ /etc/squid/squid.conf *
include /etc/squid/conf.d/*.conf

# For example, to allow access from your local networks, you may uncomment the
# following rule (and/or add rules that match your definition of "local"):
# http_access allow localnet

# And finally deny all other access to this proxy
acl localnet src 10.0.0.0/8
acl sites_bloqueados dstdomain .facebook.com .fb.com .instagram.com
http_access deny sites_bloqueados
http_access allow localnet

http_access deny all

# TAG: adapted_http_access
#     Allowing or Denying access based on defined access lists
#
#     Essentially identical to http_access, but runs after redirectors
#     and ICAP/eCAP adaptation. Allowing access control based on their
#     output.
#
#     If not set then only http_access is used.

^G Ajuda      ^O Gravar      ^W Procurar      ^K Cortar      ^T Executar      ^C Posição      M-U Desfazer
^X Sair      ^R Carregar      ^V Substituir      ^U Colar      ^J Justificar ^/ Ir p/ linha M-E Refazer
```

