

## PRÁCTICA 7 (almellonesfernandez-practica7)

### U.D.4. COMUNICACIÓN DE DISPOSITIVOS Y SISTEMAS INFORMÁTICOS (I). PROXY APLICACIÓN WEB.

Antes de describir lo que hay que realizar se van a explicar una serie de normas a tener en cuenta para cada apartado que:

- Se deja al alumno que en cada ejercicio realice las capturas concluyentes que desee, pero **NUNCA** debe faltar:
  - Fichero de configuración de squid que muestra lo que se desea probar.
  - Evidencias de los contadores de las reglas relacionadas (PREROUTING, INPUT, y si la página envía a https FORWARD), para comprender por donde pasa los paquetes. (**iptables -L -n -v -line number, iptables -t nat -L -n -v -line-number**)
  - La ejecución de comando wget/curl con las evidencias del número de respuesta (???, 3??, 4??), respuesta del proxy, reenvio a otras páginas ya sea por https o por qué el proxy nos envía a otro web.
  - Las líneas del fichero access.log exactamente relacionada con esa comprobación, que evidencia la aceptación o denegación del mismo, y que tienen que coincidir con la anterior.
- Uso de squid -k parse para comprobar que no hay errores en la configuración de las directivas.
- **Para cada** HTTP\_ACCESS y HTTP\_REPLY\_ACCESS tiene que haber un deny\_info personalizado donde aparezca nombre alumno XXXX, número de clase del alumno, el nombre de la ACL que prohíbe y un texto que explica el motivo por el cual se deniega.

## SEGURIDAD PERIMETRAL

### 1. (2,5 puntos) Instalaciones y configuraciones previas:

- a) (0,75 puntos) Instalación del servicio squid, configuración en modo transparente para las dos zonas LAN (puerto 3128) y WLAN (3129), no realizando dicha configuración directamente sobre fichero squid.conf, si no en fichero en el directorio ".conf.d/XXxx-squid.conf". (netstat, systemctl, etc.)

```
root@almellonesfernandez:~# systemctl status squid
● squid.service - Squid Web Proxy Server
  Loaded: loaded (/usr/lib/systemd/system/squid.service; enabled; preset: enabled)
  Active: active (running) since Tue 2025-01-14 10:27:08 UTC; 4min 9s ago
    Docs: man:squid(8)
   Process: 921 ExecStartPre=/usr/sbin/squid --foreground -z (code=exited, status=0/SUCCESS)
 Main PID: 1300 (squid)
   Tasks: 4 (limit: 1011)
  Memory: 27.8M (peak: 28.3M)
    CPU: 484ms
   CGroup: /system.slice/squid.service
           └─1300 /usr/sbin/squid --foreground -sYC
             ├─1304 "(squid-1)" --kid squid-1 --foreground -sYC
             ├─1334 "(logfile-daemon)" /var/log/squid/access.log
             └─1353 "(pinger)"

ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: HTCP Disabled.
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: Pinger socket opened on FD 16
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: Squid plugin modules loaded: 0
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: Adaptation support is off.
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: Accepting NAT intercepted HTTP Socket connections at co>
          listening port: 172.16.102.1:3128
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: Accepting NAT intercepted HTTP Socket connections at co>
          listening port: 192.168.102.1:3129
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: Accepting HTTP Socket connections at conn/ local=[::]:3>
          listening port: 3128
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: ERROR: listen(..., 256) system call failed: (98) Address
          listening port: 3128
ene 14 10:27:08 almellonesfernandez-firewall squid[1304]: storeLateRelease: released 0 objects
ene 14 10:27:08 almellonesfernandez-firewall systemd[1]: Started squid.service - Squid Web Proxy Server.
lines 1-29/29 (END)
```

Activar Windows  
Ve a la Configuración para activar Windows.

```
root@almellonesfernandez:~/etc/squid/conf.d# ls
almellonesfernandez-squid.conf  debian.conf
root@almellonesfernandez:~/etc/squid/conf.d# netstat -putan | grep squid
tcp        0      0 192.168.102.1:3129          0.0.0.0:*          LISTEN      1304/(squid-1)
tcp        0      0 172.16.102.1:3128          0.0.0.0:*          LISTEN      1304/(squid-1)
udp       0      0 0.0.0.0:57519            0.0.0.0:*          1304/(squid-1)
udp6      0      0 :::49336              ::::*                  1304/(squid-1)
udp6      0      0 ::1:33684            ::1:53944            ESTABLISHED 1304/(squid-1)
root@almellonesfernandez:~/etc/squid/conf.d#
```

```
2025/01/18 12:24:16| Processing: acl Safe_ports port 591          # filemaker
2025/01/18 12:24:16| Processing: acl Safe_ports port 777          # multiling http
2025/01/18 12:24:16| Processing: http_access deny !Safe_ports
2025/01/18 12:24:16| Processing: http_access deny CONNECT !SSL_ports
2025/01/18 12:24:16| Processing: http_access allow localhost manager
2025/01/18 12:24:16| Processing: http_access deny manager
2025/01/18 12:24:16| Processing: http_access allow localhost
2025/01/18 12:24:16| Processing: http_access deny to_localhost
2025/01/18 12:24:16| Processing: http_access deny to_linklocal
2025/01/18 12:24:16| Processing: include /etc/squid/conf.d/*.conf
2025/01/18 12:24:16| Processing Configuration File: /etc/squid/conf.d/almellonesfernandez-squid.conf (depth 1)
2025/01/18 12:24:16| Processing: http_port 172.16.102.1:3128 intercept #Zona LAN transparente
2025/01/18 12:24:16| Starting Authentication on port 172.16.102.1:3128
2025/01/18 12:24:16| Disabling Authentication on port 172.16.102.1:3128 (interception enabled)
2025/01/18 12:24:16| Processing: http_port 192.168.102.1:3129 intercept #Zona Wlan transparente
2025/01/18 12:24:16| Starting Authentication on port 192.168.102.1:3129
2025/01/18 12:24:16| Disabling Authentication on port 192.168.102.1:3129 (interception enabled)
2025/01/18 12:24:16| Processing: acl RedLan src 192.168.102.0/24 ##Zona transparente
2025/01/18 12:24:16| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/18 12:24:16| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 12:24:16| Processing: logfile_rotate 0
2025/01/18 12:24:16| Processing: http_access deny all
2025/01/18 12:24:16| Processing: http_port 3128
2025/01/18 12:24:16| Processing: coredump_dir /var/spool/squid
2025/01/18 12:24:16| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/18 12:24:16| Processing: refresh_pattern -i (/cgi-bin/|\.?) 0 0% 0
2025/01/18 12:24:16| Processing: refresh_pattern \/(Packages|Sources)(|\bz2|\gz|\xz)$ 0 0% 0 refresh-ims
2025/01/18 12:24:16| Processing: refresh_pattern \/Release(\|.gpg)$ 0 0% 0 refresh-ims
2025/01/18 12:24:16| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
```

b) **(0,5 puntos)** Adaptación del script del cortafuegos para prohibir la regla de FORWARD de http desde las dos zonas en modo DROP (esto lo haremos para tener la certeza de que no debe pasar nada por esa regla en todo el ejercicio) y para correcto funcionamiento para http en squid. En este momento no debería funcionar nada relacionado con http, ya que http\_access deny all (única directiva configurada), lo cortaría todo, pero si con https.

```
root@almellonesfernandez:~/scripts# iptables -t nat -L -n -v --line-number
Chain PREROUTING (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target     prot opt in     out    source         destination
1    0     0 REDIRECT    6   --  lan2   *      172.16.102.0/24  0.0.0.0/0          tcp dpt:80 redir por
2    0     0 REDIRECT    6   --  wlan2  *      192.168.102.0/24 0.0.0.0/0          tcp dpt:80 redir por
3    0     0 DNAT       6   --  wan2   *      0.0.0.0/0        0.0.0.0/0          tcp dpt:80 to:10.0.1
02.2:80
4    0     0 DNAT       6   --  wan2   *      0.0.0.0/0        0.0.0.0/0          tcp dpt:443 to:10.0.
102.2:443
5    0     0 DNAT       6   --  wan2   *      0.0.0.0/0        0.0.0.0/0          tcp dpt:2222 /* Ej N
ATP */ to:10.0.102.2:22
Chain INPUT (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target     prot opt in     out    source         destination
Chain OUTPUT (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target     prot opt in     out    source         destination
Chain POSTROUTING (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target     prot opt in     out    source         destination
1    0     0 MASQUERADE  0   --  *      wan2  10.0.102.0/24  0.0.0.0/0          /* Enmascar de DMZ
a WAN */
2    0     0 MASQUERADE  0   --  *      wan2  172.16.102.0/24 0.0.0.0/0          /* Enmascar de LAN
a WAN */
3    0     0 MASQUERADE  0   --  *      wan2  192.168.102.0/24 0.0.0.0/0          /* Enmascar de WLAN
root@almellonesfernandez:~/scripts#
```

```
root@almellonesfernandez:~/scripts# iptables -t filter -L -n -v --line-number
Chain INPUT (policy DROP 8 packets, 256 bytes)
num  pkts bytes target     prot opt in     out    source         destination
1    0     0 ACCEPT     0   --  lo     *      0.0.0.0/0        0.0.0.0/0
2    92   6416 ACCEPT    6   --  wan2   *      0.0.0.0/0        0.0.0.0/0          tcp dpt:22 /* Permit
ir SSH desde WAN */
3    1    28 ACCEPT    1   --  *      *      0.0.0.0/0        0.0.0.0/0          /* Permitir ping des
de cualquier subred */
4    0     0 ACCEPT     6   --  lan2   *      0.0.0.0/0        0.0.0.0/0          tcp dpt:22 /* Permit
ir SSH desde LAN */
5    0     0 ACCEPT     6   --  dmz2   *      0.0.0.0/0        0.0.0.0/0          tcp dpt:22 /* Permit
ir SSH desde DMZ */
6    0     0 ACCEPT     6   --  lan2   *      0.0.0.0/0        0.0.0.0/0          tcp dpt:3128 /* Zona
LAN */
7    0     0 ACCEPT     6   --  wlan2  *      0.0.0.0/0        0.0.0.0/0          tcp dpt:3129 /* Zona
WLAN */
8    0     0 ACCEPT     0   --  *      *      0.0.0.0/0        0.0.0.0/0          state RELATED,ESTABLISHED /* Respuestas OUTPUT */
```

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```
9      0      0 ACCEPT    0      --  wan2   dmz2     0.0.0.0/0          0.0.0.0/0          state RELATED,ESTABL
TSHED /* Respuesta WAN a DMZ */
10     0      0 DROP      6      --  lan2   wan2     172.16.102.2        0.0.0.0/0          tcp dpt:80
11     0      0 ACCEPT    6      --  lan2   wan2     172.16.102.2        0.0.0.0/0          tcp dpt:443
12     0      0 ACCEPT    17     --  lan2   wan2     172.16.102.2        0.0.0.0/0          udp dpt:53
13     0      0 ACCEPT    1      --  lan2   wan2     172.16.102.2        0.0.0.0/0          udp dpt:123
14     0      0 ACCEPT    17     --  lan2   wan2     172.16.102.2        0.0.0.0/0          udp dpt:123
15     0      0 DROP      6      --  lan2   wan2     172.16.102.3        0.0.0.0/0          tcp dpt:80
16     0      0 ACCEPT    6      --  lan2   wan2     172.16.102.3        0.0.0.0/0          tcp dpt:443
17     0      0 ACCEPT    17     --  lan2   wan2     172.16.102.3        0.0.0.0/0          udp dpt:53
18     0      0 ACCEPT    1      --  lan2   wan2     172.16.102.3        0.0.0.0/0          udp dpt:123
19     0      0 ACCEPT    17     --  lan2   wan2     172.16.102.3        0.0.0.0/0          udp dpt:123
20     0      0 DROP      6      --  lan2   wan2     172.16.102.4        0.0.0.0/0          tcp dpt:80
21     0      0 ACCEPT    6      --  lan2   wan2     172.16.102.4        0.0.0.0/0          tcp dpt:443
22     0      0 ACCEPT    17     --  lan2   wan2     172.16.102.4        0.0.0.0/0          udp dpt:53
23     0      0 ACCEPT    1      --  lan2   wan2     172.16.102.4        0.0.0.0/0          udp dpt:123
24     0      0 ACCEPT    17     --  lan2   wan2     172.16.102.4        0.0.0.0/0          udp dpt:123
25     0      0 ACCEPT    0      --  wan2   lan2     0.0.0.0/0          0.0.0.0/0          state RELATED,ESTABL
TSHED /* Respuesta WAN a LAN */
26     0      0 DROP      6      --  wlan2  wan2     192.168.102.2       0.0.0.0/0          tcp dpt:80
27     0      0 ACCEPT    6      --  wlan2  wan2     192.168.102.2       0.0.0.0/0          tcp dpt:443
28     0      0 ACCEPT    17     --  wlan2  wan2     192.168.102.2       0.0.0.0/0          udp dpt:53
29     0      0 ACCEPT    1      --  wlan2  wan2     192.168.102.2       0.0.0.0/0          udp dpt:123
30     0      0 ACCEPT    17     --  wlan2  wan2     192.168.102.2       0.0.0.0/0          udp dpt:123
31     0      0 ACCEPT    0      --  wan2   wlan2    0.0.0.0/0          0.0.0.0/0          state RELATED,ESTABL
ISHED /* Respuesta WAN a WLAN */
32     0      0 ACCEPT    6      --  wan2   dmz2     0.0.0.0/0          10.0.102.2         tcp dpt:80
33     0      0 ACCEPT    6      --  wan2   dmz2     0.0.0.0/0          10.0.102.2         tcp dpt:443
34     0      0 ACCEPT    6      --  wan2   dmz2     0.0.0.0/0          10.0.102.2         tcp dpt:22
35     0      0 ACCEPT    0      --  dmz2   wan2     0.0.0.0/0          0.0.0.0/0          state RELATED,ESTABL
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget http://google.com
--2025-01-18 12:10:00-- http://google.com/
Resolving google.com (google.com)... 142.250.200.110, 2a00:1450:4003:803::200e
Connecting to google.com (google.com)|142.250.200.110|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 12:10:01 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget https://google.com
--2025-01-18 12:10:07-- https://google.com/
Resolving google.com (google.com)... 142.250.200.110, 2a00:1450:4003:803::200e
Connecting to google.com (google.com)|142.250.200.110|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.google.com/ [following]
--2025-01-18 12:10:10-- https://www.google.com/
Resolving www.google.com (www.google.com)... 142.250.201.68, 2a00:1450:4003:80c::2004
Connecting to www.google.com (www.google.com)|142.250.201.68|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html.7'

index.html.7                                         [ =>                               ] 19,36K  ---KB/s   in 0,03s

2025-01-18 12:10:10 (688 KB/s) - 'index.html.7' saved [19822]
almellonesfernandez@almellonesfernandez-us-intranet:~$
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$ wget http://google.com
--2025-01-18 12:12:22-- http://google.com/
Resolving google.com (google.com)... 142.250.184.14, 2a00:1450:4003:803::200e
Connecting to google.com (google.com)|142.250.184.14|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 12:12:23 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$ wget https://google.com
--2025-01-18 12:12:34-- https://google.com/
Resolving google.com (google.com)... 142.250.184.14, 2a00:1450:4003:803::200e
Connecting to google.com (google.com)|142.250.184.14|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.google.com/ [following]
--2025-01-18 12:12:37-- https://www.google.com/
Resolving www.google.com (www.google.com)... 172.217.17.4, 2a00:1450:4003:802::2004
Connecting to www.google.com (www.google.com)|172.217.17.4|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html.2'

index.html.2                                         [ =>                               ] 19,33K  ---KB/s   in 0,001s

2025-01-18 12:12:38 (26,6 MB/s) - 'index.html.2' saved [19789]
almellonesfernandez@almellonesfernandez-us-wlan:~$
```

## Álvaro Almellones Fernández

```
root@almellonesfernandez:~/scripts# iptables -t nat -L -n -v --line-number
Chain PREROUTING (policy ACCEPT 71 packets, 2982 bytes)
num  pkts bytes target    prot opt in   out    source          destination
1    1    60  REDIRECT  6   --  lan2 *    172.16.102.0/24  0.0.0.0/0      tcp dpt:80 redir por
ts 3128
2    1    60  REDIRECT  6   --  wlan2 *    192.168.102.0/24 0.0.0.0/0      tcp dpt:80 redir por
ts 3129
3    0    0   DNAT     6   --  wan2  *    0.0.0.0/0       0.0.0.0/0      tcp dpt:80 to:10.0.1
02.2:80
4    0    0   DNAT     6   --  wan2  *    0.0.0.0/0       0.0.0.0/0      tcp dpt:443 to:10.0.
102.2:443
5    0    0   DNAT     6   --  wan2  *    0.0.0.0/0       0.0.0.0/0      tcp dpt:2222 /* Ej N
ATP */ to:10.0.102.2:22

Chain INPUT (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target    prot opt in   out    source          destination

Chain OUTPUT (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target    prot opt in   out    source          destination

Chain POSTROUTING (policy ACCEPT 4 packets, 266 bytes)
num  pkts bytes target    prot opt in   out    source          destination
1    0    0   MASQUERADE 0   --  *    wan2  10.0.102.0/24  0.0.0.0/0      /* Enmascar de DMZ
a WAN */
2    7   472  MASQUERADE 0   --  *    wan2  172.16.102.0/24 0.0.0.0/0      /* Enmascar de LAN
a WAN */
3   10   660  MASQUERADE 0   --  *    wan2  192.168.102.0/24 0.0.0.0/0      /* Enmascar de WLAN
a WAN */
root@almellonesfernandez:~/scripts#
```

```
root@almellonesfernandez:~/scripts# iptables -t filter -L -n -v --line-number
Chain INPUT (policy DROP 56 packets, 1930 bytes)
num  pkts bytes target    prot opt in   out    source          destination
1    4   268 ACCEPT    0   -  lo   *    0.0.0.0/0       0.0.0.0/0      tcp dpt:22 /* Permit
ir SSH desde WAN */
2   336  21424 ACCEPT   6   --  wan2 *    0.0.0.0/0       0.0.0.0/0      /* Permitir ping des
de cualquier subred */
3    5   140 ACCEPT    1   --  *    *    0.0.0.0/0       0.0.0.0/0      /* Permitir ping des
de cualquier subred */
4    0    0 ACCEPT    6   --  lan2 *    0.0.0.0/0       0.0.0.0/0      tcp dpt:22 /* Permit
ir SSH desde LAN */
5    0    0 ACCEPT    6   --  dmz2 *    0.0.0.0/0       0.0.0.0/0      tcp dpt:22 /* Permit
ir SSH desde DMZ */
6    7   497 ACCEPT    6   --  lan2 *    0.0.0.0/0       0.0.0.0/0      tcp dpt:3128 /* Zona
LAN */
7    8   549 ACCEPT    6   --  wlan2 *    0.0.0.0/0       0.0.0.0/0      tcp dpt:3129 /* Zona
WLAN */
8   2871  257K ACCEPT   0   --  *    *    0.0.0.0/0       0.0.0.0/0      state RELATED,ESTABL
ISHED /* Respuestas OUTPUT */

Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target    prot opt in   out    source          destination
10   0    0   DROP      6   --  lan2  wan2  172.16.102.2  0.0.0.0/0      tcp dpt:80
11   27  2738 ACCEPT   6   --  lan2  wan2  172.16.102.2  0.0.0.0/0      tcp dpt:443
12   4   276 ACCEPT   17  --  lan2  wan2  172.16.102.2  0.0.0.0/0      udp dpt:53
13   0    0 ACCEPT   17  --  lan2  wan2  172.16.102.2  0.0.0.0/0
14   1   76 ACCEPT   17  --  lan2  wan2  172.16.102.2  0.0.0.0/0      udp dpt:123
15   0    0 DROP     6   --  lan2  wan2  172.16.102.3  0.0.0.0/0      tcp dpt:80
16   0    0 ACCEPT   6   --  lan2  wan2  172.16.102.3  0.0.0.0/0      tcp dpt:443
17   0    0 ACCEPT   17  --  lan2  wan2  172.16.102.3  0.0.0.0/0      udp dpt:53
18   0    0 ACCEPT   17  --  lan2  wan2  172.16.102.3  0.0.0.0/0
19   0    0 ACCEPT   17  --  lan2  wan2  172.16.102.3  0.0.0.0/0      udp dpt:123
20   0    0 DROP     6   --  lan2  wan2  172.16.102.4  0.0.0.0/0      tcp dpt:80
21   0    0 ACCEPT   6   --  lan2  wan2  172.16.102.4  0.0.0.0/0      tcp dpt:443
22   0    0 ACCEPT   17  --  lan2  wan2  172.16.102.4  0.0.0.0/0      udp dpt:53
23   0    0 ACCEPT   17  --  lan2  wan2  172.16.102.4  0.0.0.0/0
24   0    0 ACCEPT   17  --  lan2  wan2  172.16.102.4  0.0.0.0/0      udp dpt:123
25   35 37951 ACCEPT   0   --  wan2  lan2  0.0.0.0/0       0.0.0.0/0      state RELATED,ESTABL
ISHED /* Respuesta WAN a LAN */
26   0    0 DROP     6   --  wlan2 wan2  192.168.102.2  0.0.0.0/0      tcp dpt:80
27   29  2818 ACCEPT   6   --  wlan2 wan2  192.168.102.2  0.0.0.0/0      tcp dpt:443
28   8   540 ACCEPT   17  --  wlan2 wan2  192.168.102.2  0.0.0.0/0      udp dpt:53
29   0    0 ACCEPT   17  --  wlan2 wan2  192.168.102.2  0.0.0.0/0
30   0    0 ACCEPT   17  --  wlan2 wan2  192.168.102.2  0.0.0.0/0      udp dpt:123
31   35 36569 ACCEPT   0   --  wan2  wlan2  0.0.0.0/0       0.0.0.0/0      state RELATED,ESTABL
ISHED /* Respuesta WAN a WLAN */

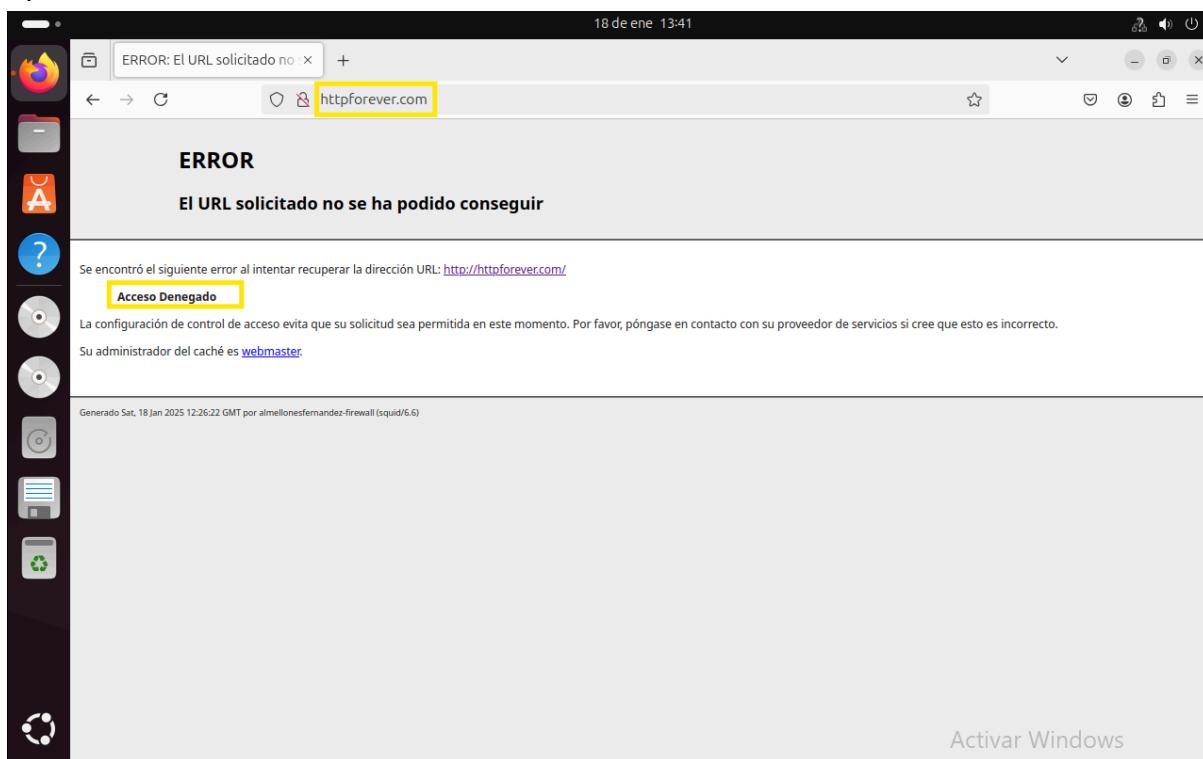
Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target    prot opt in   out    source          destination
```

**Las reglas drop del puerto 80 no aumenta ya que antes se hace el prerouting al 3128 y 3129 demostrando así que pasa correctamente por el squid, además aumentan los contadores de las reglas input y prerouting de estos puertos**

Además, se deben realizar evidencias con netstat, tcpdump e iptraf-ng, para

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demostrar que existen conexiones **establecidas** en los puertos de escucha de squid.



c) **(0,25 puntos)** Deny\_info personalizado para la **acl all** y evidencia de su funcionamiento.

```
GNU nano 7.2                                     almellonesfernandez-squid.conf
http_port 172.16.102.1:3128 intercept #Zona LAN transparente
http_port 192.168.102.1:3129 intercept #Zona Wlan transparente

acl RedWlan src 192.168.102.0/24 ##Zona transparente
acl Redlan src 172.16.102.0/24 ##Zona transparente

deny_info https://www.naughtydog.com/ all

#http_access allow RedWlan
#http_access allow Redlan
```

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```
2025/01/18 14:08:27| Processing: acl Safe_ports port 777 # multiling http
2025/01/18 14:08:27| Processing: http_access deny !Safe_ports
2025/01/18 14:08:27| Processing: http_access deny CONNECT !SSL_ports
2025/01/18 14:08:27| Processing: http_access allow localhost manager
2025/01/18 14:08:27| Processing: http_access deny manager
2025/01/18 14:08:27| Processing: http_access allow localhost
2025/01/18 14:08:27| Processing: http_access deny to_localhost
2025/01/18 14:08:27| Processing: http_access deny to_linklocal
2025/01/18 14:08:27| Processing: include /etc/squid/conf.d/*.conf
2025/01/18 14:08:27| Processing Configuration File: /etc/squid/conf.d/almellonesfernandez-squid.conf (depth 1)
2025/01/18 14:08:27| Processing: http_port 172.16.102.1:3128 intercept #Zona LAN transparente
2025/01/18 14:08:27| Starting Authentication on port 172.16.102.1:3128
2025/01/18 14:08:27| Disabling Authentication on port 172.16.102.1:3128 (interception enabled)
2025/01/18 14:08:27| Processing: http_port 192.168.102.1:3129 intercept #Zona Wlan transparente
2025/01/18 14:08:27| Starting Authentication on port 192.168.102.1:3129
2025/01/18 14:08:27| Disabling Authentication on port 192.168.102.1:3129 (interception enabled)
2025/01/18 14:08:27| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/18 14:08:27| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/18 14:08:27| Processing: deny_info https://www.naughtydog.com/ all
2025/01/18 14:08:27| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 14:08:27| Processing: logfile_rotate 0
2025/01/18 14:08:27| Processing: http_access deny all
2025/01/18 14:08:27| Processing: http_port 3128
2025/01/18 14:08:27| Processing: coredump_dir /var/spool/squid
2025/01/18 14:08:27| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/18 14:08:27| Processing: refresh_pattern -i (/cgi-bin/|\?) 0 0% 0
2025/01/18 14:08:27| Processing: refresh_pattern \/(Packages|Sources)(|\bz2|\gz|\xz)$ 0 0% 0 refresh-ims
2025/01/18 14:08:27| Processing: refresh_pattern \/Release$ 0 0% 0 refresh-ims
2025/01/18 14:08:27| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/18 14:08:27| Processing: refresh_pattern \/(Translation-*)\(|\bz2|\gz|\xz)$ 0 0% 0 refresh-ims
2025/01/18 14:08:27| Processing: refresh_pattern . 0 20% 4320 Activar Windows
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget httpforever.com
--2025-01-18 13:06:22-- http://httpforever.com/
Resolving httpforever.com (httpforever.com)... 146.190.62.39, 2604:a880:4:1d0::1f1:2000
Connecting to httpforever.com (httpforever.com)|146.190.62.39|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.naughtydog.com/ [following]
--2025-01-18 13:06:22-- https://www.naughtydog.com/
Resolving www.naughtydog.com (www.naughtydog.com)... 100.25.73.52
Connecting to www.naughtydog.com (www.naughtydog.com)|100.25.73.52|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html.10'

index.html.10 [=>] 43,30K 187KB/s in 0,2s

2025-01-18 13:06:26 (187 KB/s) - 'index.html.10' saved [44344]

almellonesfernandez@almellonesfernandez-us-intranet:~$
```

d) **(0,25 puntos)** Personalizar la opción visible\_hostname (proxyXXxx.es) y el fichero access.log (accessXXxx-squid.log) y evidencia de su funcionamiento.

```
GNU nano 7.2 almellonesfernandez-squid.conf
http_port 172.16.102.1:3128 intercept #Zona LAN transparente
http_port 192.168.102.1:3129 intercept #Zona Wlan transparente

acl RedWlan src 192.168.102.0/24 ##Zona transparente
acl Redlan src 172.16.102.0/24 ##Zona transparente

#deny_info https://www.naughtydog.com/ all

visible_hostname proxyAlmellonesfernandez.es
access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log

#http_access allow RedWlan
#http_access allow Redlan
```

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```
2025/01/18 16:07:31| Processing: http_access deny !Safe_ports
2025/01/18 16:07:31| Processing: http_access deny CONNECT !SSL_ports
2025/01/18 16:07:31| Processing: http_access allow localhost manager
2025/01/18 16:07:31| Processing: http_access deny manager
2025/01/18 16:07:31| Processing: http_access allow localhost
2025/01/18 16:07:31| Processing: http_access deny to_localhost
2025/01/18 16:07:31| Processing: http_access deny to_linklocal
2025/01/18 16:07:31| Processing: include /etc/squid/conf.d/*.conf
2025/01/18 16:07:31| Processing Configuration File: /etc/squid/conf.d/almellonesfernandez-squid.conf (depth 1)
2025/01/18 16:07:31| Processing: http_port 172.16.102.1:3128 intercept #Zona LAN transparente
2025/01/18 16:07:31| Starting Authentication on port 172.16.102.1:3128
2025/01/18 16:07:31| Disabling Authentication on port 172.16.102.1:3128 (interception enabled)
2025/01/18 16:07:31| Processing: http_port 192.168.102.1:3129 intercept #Zona Wlan transparente
2025/01/18 16:07:31| Starting Authentication on port 192.168.102.1:3129
2025/01/18 16:07:31| Disabling Authentication on port 192.168.102.1:3129 (interception enabled)
2025/01/18 16:07:31| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/18 16:07:31| Processing: acl RedLan src 172.16.102.0/24 ##Zona transparente
2025/01/18 16:07:31| Processing: visible hostname proxyAlmellonesfernandez.es
2025/01/18 16:07:31| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/18 16:07:31| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 16:07:31| Processing: logfile_rotate 0
2025/01/18 16:07:31| Processing: http_access deny all
2025/01/18 16:07:31| Processing: http_port 3128
2025/01/18 16:07:31| Processing: coredump_dir /var/spool/squid
2025/01/18 16:07:31| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/18 16:07:31| Processing: refresh_pattern -i (/cgi-bin/|\\?) 0 0% 0
2025/01/18 16:07:31| Processing: refresh_pattern \/(Packages|Sources)(|\bz2|\gz|\xz)$ 0 0% 0 refresh-ims
2025/01/18 16:07:31| Processing: refresh_pattern \/Release(\|.gpg)$ 0 0% 0 refresh-ims
2025/01/18 16:07:31| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/18 16:07:31| Processing: refresh_pattern \/(Translation-*)(|\bz2|\gz|\xz)$ 0 0% 0 refresh-ims
2025/01/18 16:07:31| Processing: refresh_pattern . 0 20% 4320 Activar Windows
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

Ve a Configuración para activar Windows.



```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget example.com
--2025-01-18 15:08:28-- http://example.com/
Resolving example.com (example.com)... 23.215.0.138, 23.192.228.84, 23.192.228.80, ...
Connecting to example.com (example.com)|23.215.0.138|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 15:08:28 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$ wget httpforever.com
--2025-01-18 15:08:46-- http://httpforever.com/
Resolving httpforever.com (httpforever.com)... 146.190.62.39, 2604:a880:4:1d0::1f1:2000
Connecting to httpforever.com (httpforever.com)|146.190.62.39|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 15:08:46 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$
```

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```
root@almellonesfernandez-firewall:/etc/squid/conf.d# cat /var/log/squid/accessAlmellonesfernandez-squid.log
1737212497.948    303 172.16.102.2 TCP_DENIED/302 345 GET http://example.com/ - HIER_NONE/- text/html
1737212626.701    52 172.16.102.2 TCP_DENIED/403 3918 GET http://example.com/ - HIER_NONE/- text/html
1737212717.492   122 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737212719.075      0 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737212723.082      0 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737212731.956      0 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737212747.180      0 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737212908.958     25 172.16.102.2 TCP_DENIED/403 3918 GET http://example.com/ - HIER_NONE/- text/html
1737212926.552     87 192.168.102.2 TCP_DENIED/403 3931 GET http://httpforever.com/ - HIER_NONE/- text/html
1737213126.861     17 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737213128.700      0 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737213132.672      0 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737213140.626      0 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737213156.476      1 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737213188.443     27 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737213255.355    1069 172.16.102.4 TCP_DENIED/403 3892 GET http://connectivity-check.ubuntu.com/ - HIER_NONE/- tex
t/html
1737213287.099    5952 172.16.102.4 TCP_DENIED_ABORTED/403 0 GET http://detectportal.firefox.com/canonical.html - H
IER_NONE/- text/html
1737213287.318    154 172.16.102.4 TCP_DENIED/403 4291 GET http://detectportal.firefox.com/canonical.html - HIER_N
```

- e) **(0,25 puntos)** Evidenciar de que no se deja rastros de la IP del cliente, únicamente desde la red. Reestablecer para que siempre guarde la IP del cliente web.

```
GNU nano 7.2                                     almellonesfernandez-squid.conf
http_port 172.16.102.1:3128 intercept #Zona LAN transparente
http_port 192.168.102.1:3129 intercept #Zona Wlan transparente

acl RedWlan src 192.168.102.0/24 ##Zona transparente
acl Redlan src 172.16.102.0/24 ##Zona transparente

#deny_info https://www.naughtydog.com/ all

visible_hostname proxyAlmellonesfernandez.es
access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
client netmask 255.255.0.0
#http_access allow RedWlan
#http_access allow Redlan
```

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```
2025/01/18 16:36:47| Processing: http_access deny CONNECT !SSL_ports
2025/01/18 16:36:47| Processing: http_access allow localhost manager
2025/01/18 16:36:47| Processing: http_access deny manager
2025/01/18 16:36:47| Processing: http_access allow localhost
2025/01/18 16:36:47| Processing: http_access deny to_localhost
2025/01/18 16:36:47| Processing: http_access deny to_linklocal
2025/01/18 16:36:47| Processing: include /etc/squid/conf.d/*.conf
2025/01/18 16:36:47| Processing Configuration File: /etc/squid/conf.d/almellonesfernandez-squid.conf (depth 1)
2025/01/18 16:36:47| Processing: http_port 172.16.102.1:3128 intercept #Zona LAN transparente
2025/01/18 16:36:47| Starting Authentication on port 172.16.102.1:3128
2025/01/18 16:36:47| Disabling Authentication on port 172.16.102.1:3128 (interception enabled)
2025/01/18 16:36:47| Processing: http_port 192.168.102.1:3129 intercept #Zona Wlan transparente
2025/01/18 16:36:47| Starting Authentication on port 192.168.102.1:3129
2025/01/18 16:36:47| Disabling Authentication on port 192.168.102.1:3129 (interception enabled)
2025/01/18 16:36:47| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/18 16:36:47| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/18 16:36:47| Processing: visible_hostname proxyAlmellonesfernandez.es
2025/01/18 16:36:47| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/18 16:36:47| Processing: client netmask 255.255.0.0
2025/01/18 16:36:47| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 16:36:47| Processing: logfile_rotate 0
2025/01/18 16:36:47| Processing: http_access deny all
2025/01/18 16:36:47| Processing: http_port 3128
2025/01/18 16:36:47| Processing: coredump_dir /var/spool/squid
2025/01/18 16:36:47| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/18 16:36:47| Processing: refresh_pattern -i (/cgi-bin/|\.?) 0 0% 0
2025/01/18 16:36:47| Processing: refresh_pattern \/(Packages|Sources)(|\.\bz2|\.\gz|\.\xz)$ 0 0% 0 refresh-ims
2025/01/18 16:36:47| Processing: refresh_pattern \/Release(\|\.\gpg\$\|) 0 0% 0 refresh-ims
2025/01/18 16:36:47| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget example.com
--2025-01-18 15:28:49-- http://example.com/
Resolving example.com (example.com)... 96.7.128.175, 23.215.0.138, 23.192.228.84, ...
Connecting to example.com (example.com)|96.7.128.175|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 15:28:49 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$ wget httpforever.com
--2025-01-18 15:29:00-- http://httpforever.com/
Resolving httpforever.com (httpforever.com)... 146.190.62.39, 2604:a880:4:1d0::1f1:2000
Connecting to httpforever.com (httpforever.com)|146.190.62.39|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 15:29:01 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$
```

```
root@almellonesfernandez-firewall:/etc/squid/conf.d# tail -5 /var/log/squid/accessAlmellonesfernandez-squid.log
1737213524.582      0 172.16.102.4 TCP_DENIED/403 4291 GET http://detectportal.firefox.comcanonical.html - HIER_NONE/- text/html
1737213524.585      0 172.16.102.4 TCP_DENIED/403 4291 GET http://detectportal.firefox.comcanonical.html - HIER_NONE/- text/html
1737213524.587      0 172.16.102.4 TCP_DENIED/403 4291 GET http://detectportal.firefox.comcanonical.html - HIER_NONE/- text/html
1737214129.770      17 172.16.0.0 TCP_DENIED/403 3918 GET http://example.com/ - HIER_NONE/- text/html
1737214141.089      88 192.168.0.0 TCP_DENIED/403 3931 GET http://httpforever.com/ - HIER_NONE/- text/html
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

f) **(0,5 puntos)** Además configurar para que haya dos ficheros más de log, una con la opción combined (accessXXxx-combined.log) y uno con un formato realizado por vosotros con todas las opciones posibles (accessXXxx-personalizado.log).

```
root@almellonesfernandez-firewall:/var/log/squid# cd /etc/squid/
root@almellonesfernandez-firewall:/etc/squid# cd conf.d/
root@almellonesfernandez-firewall:/etc/squid/conf.d# cat almellonesfernandez-squid.conf |grep log
logformat almellonesfernandez_formato %ts %tg %>a %<a %ul %un %>rm %ru HTTP/%rv %Sh/%A %>Hs %<st %rm %ru %>a "%{Referer}>h" "%{User-Agent}>h" %Ss:%Sh %tr %tg %{Header}>h
access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log almellonesfernandez_formato
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

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```
2025/01/18 16:50:53| Processing: http_access deny to_linklocal
2025/01/18 16:50:53| Processing: include /etc/squid/conf.d/*.conf
2025/01/18 16:50:53| Processing Configuration File: /etc/squid/conf.d/almellonesfernandez-squid.conf (depth 1)
2025/01/18 16:50:53| Processing: http_port 172.16.102.1:3128 intercept #Zona LAN transparente
2025/01/18 16:50:53| Starting Authentication on port 172.16.102.1:3128
2025/01/18 16:50:53| Disabling Authentication on port 172.16.102.1:3128 (interception enabled)
2025/01/18 16:50:53| Processing: http_port 192.168.102.1:3129 intercept #Zona Wlan transparente
2025/01/18 16:50:53| Starting Authentication on port 192.168.102.1:3129
2025/01/18 16:50:53| Disabling Authentication on port 192.168.102.1:3129 (interception enabled)
2025/01/18 16:50:53| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/18 16:50:53| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/18 16:50:53| Processing: visible_hostname proxy.almellonesfernandez.es
2025/01/18 16:50:53| Processing: logformat almellonesfernandez_formato %ts %tg %>a %<a %ul %un %>rm %ru HTTP/%rv
%Sh/%A %>Hs %<st %rm %ru %>a "%{Referer}>h" "%Ss:%Sh %tr %tg %{Header}>h"
2025/01/18 16:50:53| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/18 16:50:53| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/18 16:50:53| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/18 16:50:53| Processing: client_netmask 255.255.0.0
2025/01/18 16:50:53| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 16:50:53| Processing: logfile_rotate 0
2025/01/18 16:50:53| Processing: http_access deny all
2025/01/18 16:50:53| Processing: http_port 3128
2025/01/18 16:50:53| Processing: coredump_dir /var/spool/squid
2025/01/18 16:50:53| Processing: refresh_pattern ^ftp:          1440   20%    10080
2025/01/18 16:50:53| Processing: refresh_pattern -i (/cgi-bin/|\\?) 0   0%    0
2025/01/18 16:50:53| Processing: refresh_pattern \/(Packages|Sources)(|\\.bz2|\\.gz|\\.xz)$ 0 0% 0 refresh-ims
2025/01/18 16:50:53| Processing: refresh_pattern \/Release(|\\.pgp)$ 0 0% 0 refresh-ims
2025/01/18 16:50:53| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/18 16:50:53| Processing: refresh_pattern \/(Translation-.*)(|\\.bz2|\\.gz|\\.xz)$ 0 0% 0 refresh-ims
2025/01/18 16:50:53| Processing: refresh_pattern .           0   20%    4320
Activar Windows
Ve a Configuración para activar Windows.
root@almellonesfernandez-firewall:/var/log/squid#
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget example.com
--2025-01-18 15:49:08-- http://example.com/
Resolving example.com (example.com)... 23.192.228.84, 23.192.228.80, 96.7.128.198, ...
Connecting to example.com (example.com)|23.192.228.84|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 15:49:08 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$ wget httpforever.com
--2025-01-18 15:49:12-- http://httpforever.com/
Resolving httpforever.com (httpforever.com)... 146.190.62.39, 2604:a880:4:1d0::1f1:2000
Connecting to httpforever.com (httpforever.com)|146.190.62.39|:80... connected.
HTTP request sent, awaiting response... 403 Forbidden
2025-01-18 15:49:12 ERROR 403: Forbidden.
```

```
almellonesfernandez@almellonesfernandez-us-wlan:~$
```

```
root@almellonesfernandez-firewall:/etc/squid/conf.d# cd /var/log/squid/
root@almellonesfernandez-firewall:/var/log/squid# ls
accessAlmellonesfernandez-combined.log      accessAlmellonesfernandez-squid.log  access.log.1  cache.log.1
accessAlmellonesfernandez-personalizado.log  access.log                    cache.log
root@almellonesfernandez-firewall:/var/log/squid# cat accessAlmellonesfernandez-combined.log
172.16.0.0 - - [18/Jan/2025:16:49:08 +0100] "GET http://example.com/ HTTP/1.1" 403 3918 "-" "Wget/1.21.4" TCP_DENIED:HIER_NONE
192.168.0.0 - - [18/Jan/2025:16:49:12 +0100] "GET http://httpforever.com/ HTTP/1.1" 403 3931 "-" "Wget/1.21.4" TCP_DENIED:HIER_NONE
root@almellonesfernandez-firewall:/var/log/squid# cat accessAlmellonesfernandez-personalizado.log
1737215348 18/Jan/2025:15:49:08 172.16.0.0 - - GET http://example.com/ HTTP/1.1 HIER_NONE/- 403 3918 GET http://example.com/
172.16.0.0 - - "Wget/1.21.4" TCP_DENIED:HIER_NONE 42 18/Jan/2025:15:49:08 -
1737215352 18/Jan/2025:15:49:12 192.168.0.0 - - GET http://httpforever.com/ HTTP/1.1 HIER_NONE/- 403 3931 GET http://httpforever.com/
192.168.0.0 - - "Wget/1.21.4" TCP_DENIED:HIER_NONE 82 18/Jan/2025:15:49:12 -
root@almellonesfernandez-firewall:/var/log/squid#
```

## HERRAMIENTAS DE MONITORIZACIÓN

2. (2 puntos, Investigación) Realice la instalación y posterior configuración de 2 loganizadores de proxy web entre los siguientes:

- a) Sarg.
- b) Awstats.
- c) Squid Analyzer.
- d) Calamaris.
- e) Fiddler
- f) Burp Suite.

```
root@almellonesfernandez-firewall:/var/log/squid# calamaris -a accessAlmellonesfernandez-squid.log
```

Proxy-Report

Report period: 18.Jan 25 16:01:37 - 18.Jan 25 16:49:12  
Generated at: 18.Jan 25 17:08:17

```
# Summary
Calamaris statistics
-----
lines parsed:                                lines      88
invalid lines:                               lines      0
parse time:                                  sec       1
parse speed:                                 lines/sec  88
-----
Proxy statistics
-----
Total amount:                                requests   88
unique hosts/users:                          hosts      5
Total Bandwidth:                            Byte     341528
Proxy efficiency (HIT [kB/sec] / DIRECT [kB/sec]): factor    0.00
Average speed increase:                      %        0.00
TCP response time of 100% requests:         msec     136
-----
Cache statistics
-----
Total amount cached:                         requests   0
Request hit rate:                           %        0.00
Bandwidth savings:                          Byte      0
Bandwidth savings in Percent (Byte hit rate): %        0.00
Average cached object size:                 Byte      0
Average direct object size:                 Byte    3881
```

Activar Windows  
Ve a Configuración para activar Windows.

The screenshot shows the SARG interface with the following data:

USERID	CONNECT	BYTES	HTTP-CACHE-OUT	ELAPSED TIME	MILLISECONDS	%"TIME
1	172.16.10.4	1,311K	26.49M	0.15%	23.4%	0.00%
2	172.16.10.3	277	2.39M	7.54%	0.08%	99.92%
3	172.16.10.2	35	58.20K	0.20%	0.15%	8.41%
4	192.168.102.2	17	18.30K	0.04%	92.42%	7.38%
5	192.168.102.9	2	7.86K	0.03%	100.00%	0.00%
6	172.16.6.0	2	7.83K	0.03%	100.00%	0.00%
<b>TOTAL</b>		<b>1,65K 29,09M</b>		<b>12.20%</b>	<b>67.80%</b>	
<b>AVERAGE</b>		<b>275 4.84M</b>		<b>00:03:48</b>		<b>228.13%</b>

\*\*\* Se realiza la instalación en este apartado para qué al realizar el ejercicio al completo, podáis recoger capturas de toda la información que está recogiendo cada loganizador, en función de la configuración de

**Álvaro Almellones Fernández**

**vuestra práctica.**

*\*\*\* Se recomienda un snapshot, con explicación de lo que hace.*

*Muestre, aunque no se valorará.*

## **SEGURIDAD PERIMETRAL**

### **3. (2,5 puntos) Filtros HTTP\_ACCESS BÁSICOS.**

A continuación, se deja al alumno que elija los ejemplos, orden que tiene que tener las directivas `http_access` en el fichero de configuración y las capturas que desee para evidenciar directivas relacionadas con (deben funcionar todas a la vez, el enunciado está redactada de forma que vaya creciendo):

- a) **(0,5 puntos)** Restricciones por la directiva url\_regex por ciertas palabras en las dos subredes.

```
GNU nano 7.2                                         almellonesfernandez-squid.conf
http_port 172.16.102.1:3128 intercept #Zona LAN transparente
http_port 192.168.102.1:3129 intercept #Zona Wlan transparente

acl RedWlan src 192.168.102.0/24 ##Zona transparente
acl Redlan src 172.16.102.0/24 ##Zona transparente

#deny_info https://www.naughtydog.com/ all

visible_hostname proxyAlmellonesfernandez.es

logformat almellonesfernandez_formato %ts %tg %>a %<a %ul %un %>rm %ru HTTP/%rv %Sh/%<A %>Hs %<st %rm %ru %>a %%>

access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log almellonesfernandez_formato

#client_netmask 255.255.0.0

acl lista_url_prohibidas_aaf url_regex mercadona bershka
http_access deny lista_url_prohibidas_aaf
deny_info https://www.game.es/ lista_url_prohibidas_aaf

http_access allow RedWlan
http access allow Redlan
```

```
2025/01/18 17:42:38| Starting Authentication on port 172.16.102.1:3128
2025/01/18 17:42:38| Disabling Authentication on port 172.16.102.1:3128 (interception enabled)
2025/01/18 17:42:38| Processing: http_port 192.168.102.1:3129 intercept #Zona Wlan transparente
2025/01/18 17:42:38| Starting Authentication on port 192.168.102.1:3129
2025/01/18 17:42:38| Disabling Authentication on port 192.168.102.1:3129 (interception enabled)
2025/01/18 17:42:38| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/18 17:42:38| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/18 17:42:38| Processing: visible_hostname proxyAlmellonesfernandez.es
2025/01/18 17:42:38| Processing: logformat almellonesfernandez formato %ts %tg %>a %<a %ul %un %>rm %ru HTTP/%rv
%Sh-%A %Hs <%st %rm %ru %>a "%{Referer}>h" "%{User-Agent}>h" %Ss:%Sh %tr %tg %{Header}>h
2025/01/18 17:42:38| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/18 17:42:38| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/18 17:42:38| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/18 17:42:38| Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka
2025/01/18 17:42:38| Processing: http_access deny lista_url_prohibidas_aaf
2025/01/18 17:42:38| Processing: deny_info https://www.game.es/ lista url prohibidas aaf
2025/01/18 17:42:38| Processing: http_access allow RedWlan
2025/01/18 17:42:38| Processing: http_access allow Redlan
2025/01/18 17:42:38| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 17:42:38| Processing: logfile_rotate 0
2025/01/18 17:42:38| Processing: http_access deny all
2025/01/18 17:42:38| Processing: http_port 3128
2025/01/18 17:42:38| Processing: coredump_dir /var/spool/squid
2025/01/18 17:42:38| Processing: refresh_pattern ^ftp:          1440    20%    10080
2025/01/18 17:42:38| Processing: refresh_pattern -i (/cgi-bin/|?) 0    0%    0
2025/01/18 17:42:38| Processing: refresh_pattern \/(Packages|Sources)(\|.bz2|\|.gz|\|.xz)$ 0    0%    0 refresh-ims
2025/01/18 17:42:38| Processing: refresh_pattern \/Release(\|.gpg)$ 0    0%    0 refresh-ims
2025/01/18 17:42:38| Processing: refresh_pattern \/InRelease$ 0    0%    0 refresh-ims
2025/01/18 17:42:38| Processing: refresh_pattern \/(Translation-.*)(\|.bz2|\|.gz|\|.xz)$ 0    0%    0 refresh-ims
2025/01/18 17:42:38| Processing: refresh_pattern .           0    20%    4320
2025/01/18 17:42:38|                                         Active Windows
root@almellonesfernandez-firewall:/etc/squid/conf.d# █
Ve a Configuración para activar Windows.
```

## Álvaro Almellones Fernández

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget mercadona.com
--2025-01-18 16:40:24-- http://mercadona.com/
Resolving mercadona.com (mercadona.com)... 195.53.40.253
Connecting to mercadona.com (mercadona.com)|195.53.40.253|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.game.es/ [following]
--2025-01-18 16:40:24-- https://www.game.es/
Resolving www.game.es (www.game.es)... 212.170.159.195
Connecting to www.game.es (www.game.es)|212.170.159.195|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1281499 (1,2M) [text/html]
Saving to: 'index.html.19'

index.html.19          100%[=====] 1,22M 7,48MB/s in 0,2s

2025-01-18 16:40:24 (7,48 MB/s) - 'index.html.19' saved [1281499/1281499]

almellonesfernandez@almellonesfernandez-us-intranet:~$ wget bershka.com
--2025-01-18 16:40:27-- http://bershka.com/
Resolving bershka.com (bershka.com)... 2.20.253.160, 2.20.253.149, 2.20.253.163, ...
Connecting to bershka.com (bershka.com)|2.20.253.160|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.game.es/ [following]
--2025-01-18 16:40:27-- https://www.game.es/
Resolving www.game.es (www.game.es)... 212.170.159.195
Connecting to www.game.es (www.game.es)|212.170.159.195|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1281499 (1,2M) [text/html]
Saving to: 'index.html.20'

index.html.20          100%[=====] 1,22M 7,11MB/s in 0,2s
Activar Windows  
Ve a Configuración para activar Windows.

almellonesfernandez@almellonesfernandez-us-wlan:~$ wget mercadona.com
--2025-01-18 16:40:51-- http://mercadona.com/
Resolving mercadona.com (mercadona.com)... 195.53.40.253
Connecting to mercadona.com (mercadona.com)|195.53.40.253|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.game.es/ [following]
--2025-01-18 16:40:52-- https://www.game.es/
Resolving www.game.es (www.game.es)... 212.170.159.195
Connecting to www.game.es (www.game.es)|212.170.159.195|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1281499 (1,2M) [text/html]
Saving to: 'index.html.5'

index.html.5          100%[=====] 1,22M ---KB/s in 0,1s

2025-01-18 16:40:52 (9,93 MB/s) - 'index.html.5' saved [1281499/1281499]

almellonesfernandez@almellonesfernandez-us-wlan:~$ wget bershka.com
--2025-01-18 16:40:54-- http://bershka.com/
Resolving bershka.com (bershka.com)... 2.18.40.147, 2.18.40.139, 2a02:26f0:b80:18::214:4415, ...
Connecting to bershka.com (bershka.com)|2.18.40.147|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.game.es/ [following]
--2025-01-18 16:40:55-- https://www.game.es/
Resolving www.game.es (www.game.es)... 212.170.159.195
Connecting to www.game.es (www.game.es)|212.170.159.195|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1281499 (1,2M) [text/html]
Saving to: 'index.html.6'

index.html.6          100%[=====] 1,22M 7,02MB/s in 0,2s
Activar Windows  
Ve a Configuración para activar Windows.
```

b) **(0,5 puntos)** Restricciones en el uso de los navegadores (user-agent) en las dos subredes

## Álvaro Almellones Fernández

```
GNU nano 7.2                                         almellonesfernandez-squid.conf *
http_port 172.16.102.1:3128 intercept #Zona LAN transparente
http_port 192.168.102.1:3129 intercept #Zona Wlan transparente

acl RedWlan src 192.168.102.0/24 ##Zona transparente
acl Redlan src 172.16.102.0/24 ##Zona transparente

#deny_info https://www.naughtydog.com/ all

visible_hostname proxyAlmellonesfernandez.es

logformat almellonesfernandez_formato %ts %tg >a %<a %ul %un >rm %ru HTTP/%rv %Sh/%<A %>Hs %<st %rm %ru >a "%>
access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log almellonesfernandez_formato

#client_netmask 255.255.0.0

acl lista_url_prohibidas_aaf url_regex mercadona bershka
http_access deny lista_url_prohibidas_aaf
deny_info https://www.game.es/ lista_url_prohibidas_aaf

acl lista_Navegadores_prohibidos_aaf browser -i Firefox
http_access deny lista_Navegadores_prohibidos_aaf

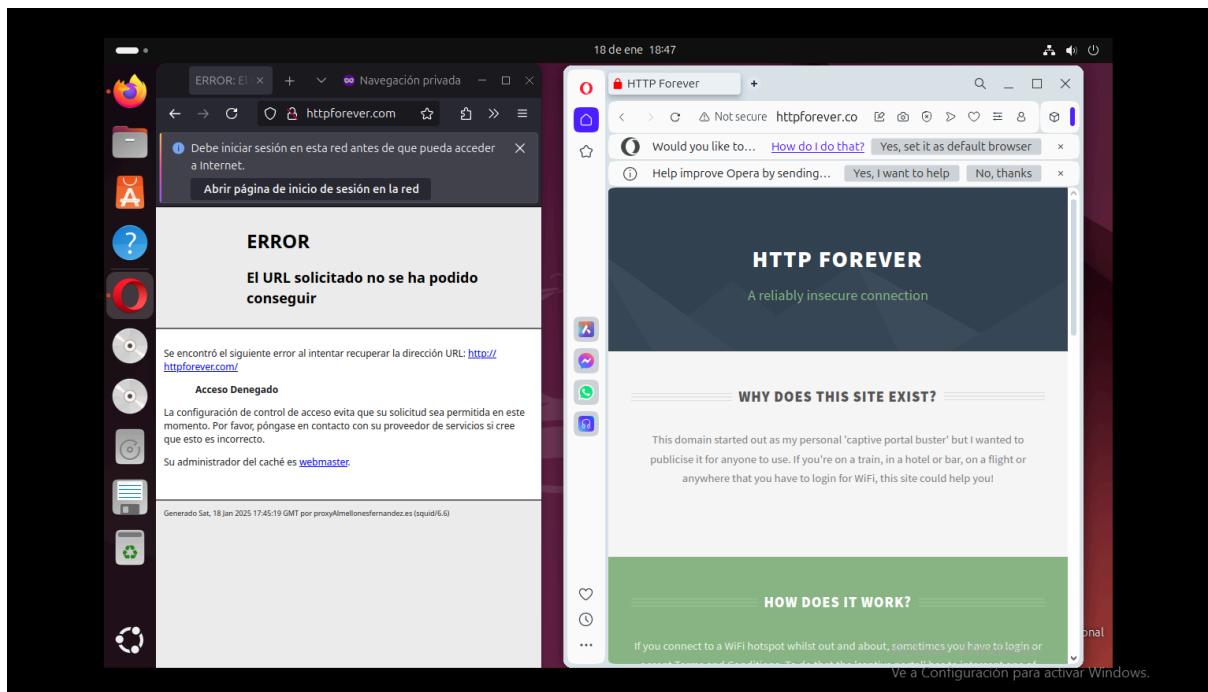
http_access allow RedWlan
```

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo  
^X Exit ^R Read File ^Y Replace ^U Paste ^J Justify ^Y Go To Line M-E Redo

```
2025/01/18 18:48:22| Processing: http_port 192.168.102.1:3129 intercept #Zona Wlan transparente
2025/01/18 18:48:22| Starting Authentication on port 192.168.102.1:3129
2025/01/18 18:48:22| Disabling Authentication on port 192.168.102.1:3129 (interception enabled)
2025/01/18 18:48:22| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/18 18:48:22| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/18 18:48:22| Processing: visible_hostname proxyAlmellonesfernandez.es
2025/01/18 18:48:22| Processing: logformat almellonesfernandez_formato %ts %tg >a %<a %ul %un >rm %ru HTTP/%rv
%Sh/%<A %>Hs %<st %rm %ru >a "%{Referer}>h" "%{User-Agent}>h" "%Ss:%Sh %tr %tg %{Header}>h"
2025/01/18 18:48:22| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/18 18:48:22| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/18 18:48:22| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alm
lloenesfernandez_formato
2025/01/18 18:48:22| Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka
2025/01/18 18:48:22| Processing: http_access deny lista_url_prohibidas_aaf
2025/01/18 18:48:22| Processing: deny_info https://www.game.es/ lista_url_prohibidas_aaf
2025/01/18 18:48:22| Processing: acl lista_Navegadores_prohibidos_aaf browser -i Firefox
2025/01/18 18:48:22| Processing: http_access deny lista_Navegadores_prohibidos_aaf
2025/01/18 18:48:22| Processing: http_access allow RedWlan
2025/01/18 18:48:22| Processing: http_access allow Redlan
2025/01/18 18:48:22| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 18:48:22| Processing: logfile_rotate 0
2025/01/18 18:48:22| Processing: http_access deny all
2025/01/18 18:48:22| Processing: http_port 3128
2025/01/18 18:48:22| Processing: coredump_dir /var/spool/squid
2025/01/18 18:48:22| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/18 18:48:22| Processing: refresh_pattern -i (/cgi-bin/|\?) 0 0% 0
2025/01/18 18:48:22| Processing: refresh_pattern \/(Packages|Sources)(|\.\bz2|\.\gz|\.\xz)$ 0 0% 0 refresh-ims
2025/01/18 18:48:22| Processing: refresh_pattern \/Release(\.\gpg)$ 0 0% 0 refresh-ims
2025/01/18 18:48:22| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/18 18:48:22| Processing: refresh_pattern \/(Translation-*)\(|\.\bz2|\.\gz|\.\xz)$ 0 0% 0 refresh-ims
2025/01/18 18:48:22| Processing: refresh_pattern . 0 20% 4320
```

Activar Windows  
Ve a Configuración para activar Windows.

## Álvaro Almellones Fernández



c) (0,5 puntos) Restricciones en el uso de ciertos dominios en las dos subredes, a partir de un fichero de texto.

```
root@almellonesfernandez-firewall:/etc/squid/conf.d# cat almellonesfernandez-domain.txt
youtube.com
twitter.com

root@almellonesfernandez-firewall:/etc/squid/conf.d# cat almellonesfernandez-squid.conf | grep Dominio
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
http_access deny Lista_Dominios_Prohibidos_aaf
deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

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```
2025/01/18 19:11:15| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/18 19:11:15| Processing: visible_hostname proxyAlmellonesfernandez.es
2025/01/18 19:11:15| Processing: logformat almellonesfernandez_formato %ts %tg %<a %< %ul %un %>rm %ru HTTP/%rv
%Sh/%<A %>Hs %<t %rm %ru %>a "%{Referer}>h" "%{User-Agent}>h" %Ss:%Sh %tr %tg %{Header}>h
2025/01/18 19:11:16| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/18 19:11:16| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/18 19:11:16| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/18 19:11:16| Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka
2025/01/18 19:11:16| Processing: http_access deny lista_url_prohibidas_aaf
2025/01/18 19:11:16| Processing: deny_info https://www.game.es/_lista_url_prohibidas_aaf
2025/01/18 19:11:16| Processing: acl lista_Navegadores_prohibidos_aaf browser -i Firefox
2025/01/18 19:11:16| Processing: http_access deny lista_Navegadores_prohibidos_aaf
2025/01/18 19:11:16| Processing: acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernande
z-domain.txt"
2025/01/18 19:11:16| Processing: http_access deny Lista_Dominios_Prohibidos_aaf
2025/01/18 19:11:16| Processing: deny_info https://www.eroski.es/_Lista_Dominios_Prohibidos_aaf
2025/01/18 19:11:16| Processing: http_access allow RedWlan
2025/01/18 19:11:16| Processing: http_access allow Redlan
2025/01/18 19:11:16| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 19:11:16| Processing: logfile_rotate 0
2025/01/18 19:11:16| Processing: http_access deny all
2025/01/18 19:11:16| Processing: http_port 3128
2025/01/18 19:11:16| Processing: coredump_dir /var/spool/squid
2025/01/18 19:11:16| Processing: refresh_pattern ^ftp:          1440   20%    10080
2025/01/18 19:11:16| Processing: refresh_pattern -i (/cgi-bin/|\?) 0     0%      0
2025/01/18 19:11:16| Processing: refresh_pattern \|/Packages|Sources|(|\.\bz2|\.\gz|\.\xz)$ 0 0% 0 refresh-ims
2025/01/18 19:11:16| Processing: refresh_pattern \Release(\|\.gpg)$ 0 0% 0 refresh-ims
2025/01/18 19:11:16| Processing: refresh_pattern \InRelease$ 0 0% 0 refresh-ims
2025/01/18 19:11:16| Processing: refresh_pattern \|(Translation-\*)(|\.\bz2|\.\gz|\.\xz)$ 0 0% 0 refresh-ims
2025/01/18 19:11:16| Processing: refresh_pattern .           0     20%    4320
Activar Windows
Ve a Configuración para activar Windows.
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget twitter.com
--2025-01-18 18:07:23-- http://twitter.com/
Resolving twitter.com (twitter.com)... 104.244.42.1
Connecting to twitter.com (twitter.com)|104.244.42.1|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.eroski.es/_following
--2025-01-18 18:07:23-- https://www.eroski.es/
Resolving www.eroski.es (www.eroski.es)... 159.60.134.230
Connecting to www.eroski.es (www.eroski.es)|159.60.134.230|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 316756 (309K) [text/html]
Saving to: 'index.html.23'

index.html.23
100%[=====] 309,33K  --.-KB/s in 0,07s

2025-01-18 18:07:23 (4,39 MB/s) - 'index.html.23' saved [316756/316756]

almellonesfernandez@almellonesfernandez-us-intranet:~$ wget youtube.com
--2025-01-18 18:08:19-- http://youtube.com/
Resolving youtube.com (youtube.com)... 172.217.17.14, 2a00:1450:4003:803::200e
Connecting to youtube.com (youtube.com)|172.217.17.14|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.eroski.es/_following
--2025-01-18 18:08:19-- https://www.eroski.es/
Resolving www.eroski.es (www.eroski.es)... 159.60.134.230
Connecting to www.eroski.es (www.eroski.es)|159.60.134.230|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 316756 (309K) [text/html]
Saving to: 'index.html.24'

index.html.24
100%[=====] 309,33K  --.-KB/s in 0,1s
Activar Windows
Ve a Configuración para activar Windows.
```

## Álvaro Almellones Fernández

```
almellonesfernandez@almellonesfernandez-us-wlan:~$ wget twitter.com
--2025-01-18 18:08:41-- http://twitter.com/
Resolving twitter.com (twitter.com)... 104.244.42.1
Connecting to twitter.com (twitter.com)|104.244.42.1|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.eroski.es/ [following]
--2025-01-18 18:08:41-- https://www.eroski.es/
Resolving www.eroski.es (www.eroski.es)... 159.60.134.230
Connecting to www.eroski.es (www.eroski.es)|159.60.134.230|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 316756 (309K) [text/html]
Saving to: 'index.html.7'

index.html.7          100%[=====] 309,33K  --.-KB/s   in 0,07s

2025-01-18 18:08:41 (4,59 MB/s) - 'index.html.7' saved [316756/316756]

almellonesfernandez@almellonesfernandez-us-wlan:~$ wget youtube.com
--2025-01-18 18:08:54-- http://youtube.com/
Resolving youtube.com (youtube.com)... 142.250.184.14, 2a00:1450:4003:811::200e
Connecting to youtube.com (youtube.com)|142.250.184.14|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.eroski.es/ [following]
--2025-01-18 18:08:54-- https://www.eroski.es/
Resolving www.eroski.es (www.eroski.es)... 159.60.134.230
Connecting to www.eroski.es (www.eroski.es)|159.60.134.230|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 316756 (309K) [text/html]
Saving to: 'index.html.8'

index.html.8          100%[=====] 309,33K  --.-KB/s   in 0,08s
Activar Windows
Ve a Configuración para activar Windows.
```

d) **(0,5 puntos, AND)** Se permitirá todas las restricciones anteriormente (a, b, c) a una determinada hora (a elegir por el alumno, que dependerá de cuando se realice el ejercicio) de que denominemos descanso, es decir en ese horario no se aplicará ninguna de las restricciones, pero **sólo** en la red LAN. Por tanto, en wlan en ese mismo rango de horas se debe cortar.

```
GNU nano 7.2                               almellonesfernandez-squid.conf
logformat almellonesfernandez_formato %ts %tg %>a %<a %ul %un %>rm %ru  HTTP/%rv %Sh/%<A %>Hs %<st %rm %ru %>a "%>
access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log almellonesfernandez_formato

#client_netmask 255.255.0.0

acl lista_url_prohibidas_aaf url_regex mercadona bershka
acl lista_Navegadores_prohibidos_aaf browser -i Firefox
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
acl Hora_Allow_All time 18:00-23:59
http_access allow Hora_Allow_All Redlan
http_access deny lista_url_prohibidas_aaf
deny_info https://www.game.es/ lista_url_prohibidas_aaf
http_access deny lista_Navegadores_prohibidos_aaf
http_access deny Lista_Dominios_Prohibidos_aaf
deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf
http_access allow Redlan Hora_Allow_All
http_access allow RedWlan
http_access allow Redlan
```

## Álvaro Almellones Fernández

```
2025/01/18 20:13:52| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/18 20:13:52| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/18 20:13:52| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/18 20:13:52| Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka
2025/01/18 20:13:52| Processing: acl lista_Navegadores_prohibidos_aaf browser -i Firefox
2025/01/18 20:13:52| Processing: acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernande
z-domain tv"
2025/01/18 20:13:52| Processing: acl Hora_Allow_All time 18:00-23:59
2025/01/18 20:13:52| Processing: http_access allow Hora_Allow_All Redlan
2025/01/18 20:13:52| Processing: http_access deny lista_url_prohibidas_aaf
2025/01/18 20:13:52| Processing: deny_info https://www.game.es/ lista_url_prohibidas_aaf
2025/01/18 20:13:52| Processing: http_access deny lista_Navegadores_prohibidos_aaf
2025/01/18 20:13:52| Processing: http_access deny Lista_Dominios_Prohibidos_aaf
2025/01/18 20:13:52| Processing: deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf
2025/01/18 20:13:52| Processing: http_access allow Redlan Hora_Allow_All
2025/01/18 20:13:52| Processing: http_access allow Redylan
2025/01/18 20:13:52| Processing: http_access allow Redlan
2025/01/18 20:13:52| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 20:13:52| Processing: logfile_rotate 0
2025/01/18 20:13:52| Processing: http_access deny all
2025/01/18 20:13:52| Processing: http_port 3128
2025/01/18 20:13:52| Processing: coredump_dir /var/spool/squid
2025/01/18 20:13:52| Processing: refresh_pattern ^ftp:          1440    20%    10080
2025/01/18 20:13:52| Processing: refresh_pattern -i (/cgi-bin/|\?) 0     0%    0
2025/01/18 20:13:52| Processing: refresh_pattern \/(Packages|Sources)(|\bz2|\gz|\xz)$ 0 0% 0 refresh-ims
2025/01/18 20:13:52| Processing: refresh_pattern \/Release(\|\gpg$) 0 0% 0 refresh-ims
2025/01/18 20:13:52| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/18 20:13:52| Processing: refresh_pattern \/(Translation-.*)(|\bz2|\gz|\xz)$ 0 0% 0 refresh-ims
2025/01/18 20:13:52| Processing: refresh_pattern .           0     20%    4320 Activar Windows
root@almellonesfernandez-firewall:/etc/squid/conf.d# █
Ve a Configuración para activar Windows.
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ wget mercadona.com
--2025-01-18 19:11:01-- http://mercadona.com/
Resolving mercadona.com (mercadona.com)... 195.53.40.253
Connecting to mercadona.com (mercadona.com)|195.53.40.253|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.mercadona.com/ [following]
--2025-01-18 [19:11:01] - https://www.mercadona.com/
Resolving www.mercadona.com (www.mercadona.com)... 23.200.66.163, 23.200.66.159, 2a02:26f0:980:a::6010:5697, ...
Connecting to www.mercadona.com (www.mercadona.com)|23.200.66.163|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10745 (10K) [text/html]
Saving to: 'index.html.29'

index.html.29                                         100%[=====] 10,49K  --.-KB/s   in 0s

2025-01-18 19:11:01 (318 MB/s) - 'index.html.29' saved [10745/10745]
almellonesfernandez@almellonesfernandez-us-intranet:~$ █

```

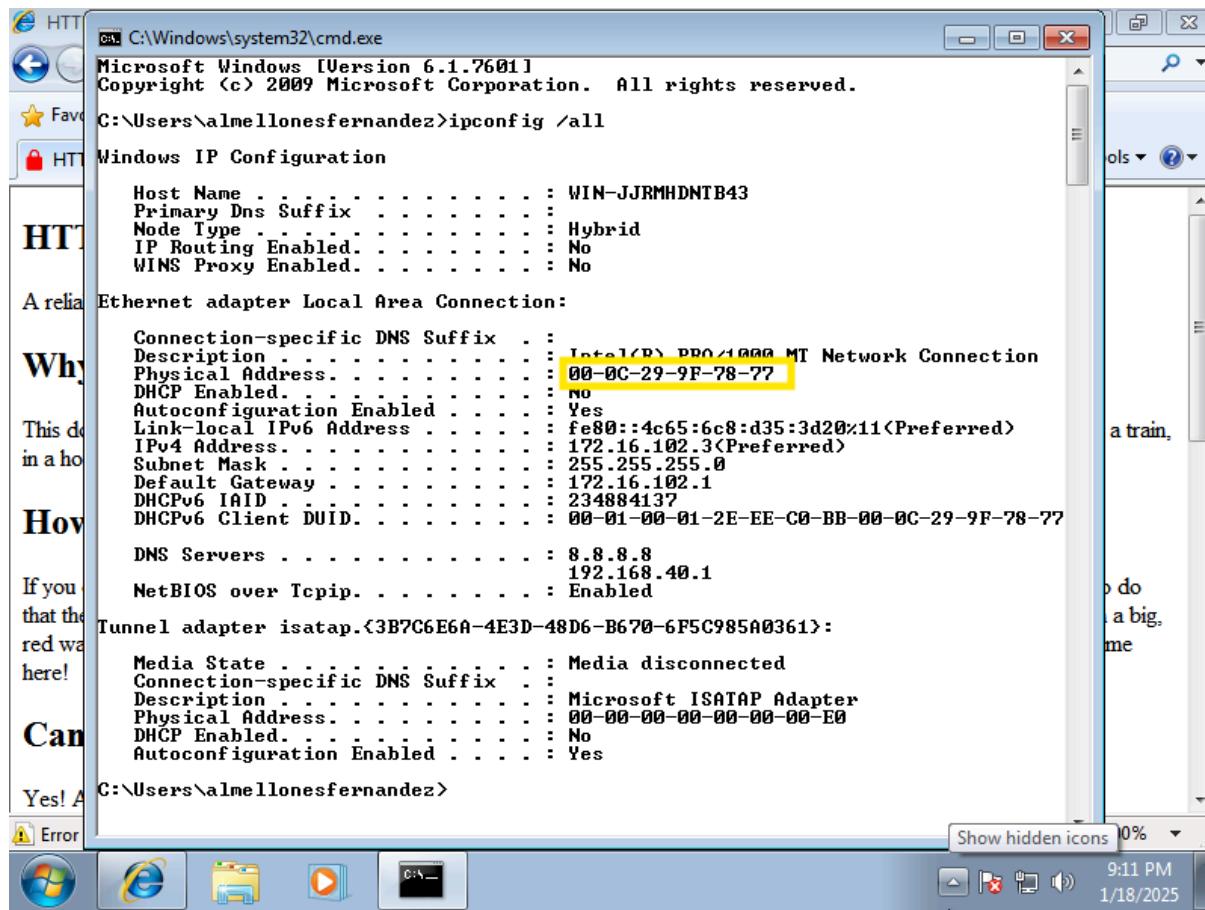
```
almellonesfernandez@almellonesfernandez-us-wlan:~$ wget mercadona.com
--2025-01-18 19:11:22-- http://mercadona.com/
Resolving mercadona.com (mercadona.com)... 195.53.40.253
Connecting to mercadona.com (mercadona.com)|195.53.40.253|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://www.game.es/ [following]
--2025-01-18 19:11:22 - https://www.game.es/
Resolving www.game.es (www.game.es)... 212.170.159.195
Connecting to www.game.es (www.game.es)|212.170.159.195|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1273851 (1,2M) [text/html]
Saving to: 'index.html.12'

index.html.12                                         100%[=====] 1,21M  5,64MB/s   in 0,2s

2025-01-18 19:11:23 (5,64 MB/s) - 'index.html.12' saved [1273851/1273851]
almellonesfernandez@almellonesfernandez-us-wlan:~$ █
```

e) **(0,5 puntos)** Sin embargo para una MAC concreta (la de equipo Windows), siempre se podrá acceder a todo (no hay restricciones).

Álvaro Almellones Fernández



```
GNU nano 7.2                                         almellonesfernandez-squid.conf
access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log almellonesfernandez_formato

#client_netmask 255.255.0.0

acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever
acl lista_Navegadores_prohibidos_aaf browser -i Firefox
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
acl Hora_Allow_All_time 18:00-23:59
acl mac_Windows arp 00:0c:29:9f:78:77

http_access allow mac_Windows

http_access allow Hora_Allow_All Redlan

http_access deny lista_url_prohibidas_aaf
deny_info https://www.game.es/ lista_url_prohibidas_aaf

http_access deny lista_Navegadores_prohibidos_aaf

http_access deny Lista_Dominios_Prohibidos_aaf
deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf

http_access allow Redlan Hora_Allow_All

http_access allow RedWlan
http_access allow Redlan
```

## Álvaro Almellones Fernández

```
2025/01/18 21:07:46| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/18 21:07:46| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/18 21:07:46| Processing: acl lista_url_prohibidas_aaf url_regex mercadona berska httpforever
2025/01/18 21:07:46| Processing: acl lista_Navegadores_prohibidos_aaf browser -i Firefox
2025/01/18 21:07:46| Processing: acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernande
z-domain.txt"
2025/01/18 21:07:46| Processing: acl Hora_Allow All time 18:00-23:59
2025/01/18 21:07:46| Processing: acl mac_Windows arp 00:0c:29:9f:78:77
2025/01/18 21:07:46| Processing: http_access allow mac_Windows
2025/01/18 21:07:46| Processing: http_access allow Hora_Allow_All Redlan
2025/01/18 21:07:46| Processing: http_access deny lista_url_prohibidas_aaf
2025/01/18 21:07:46| Processing: deny_info https://www.game.es/ lista_url_prohibidas_aaf
2025/01/18 21:07:46| Processing: http_access deny lista_Navegadores_prohibidos_aaf
2025/01/18 21:07:46| Processing: http_access deny Lista_Dominios_Prohibidos_aaf
2025/01/18 21:07:46| Processing: deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf
2025/01/18 21:07:46| Processing: http_access allow Redlan Hora_Allow_All
2025/01/18 21:07:46| Processing: http_access allow RedWlan
2025/01/18 21:07:46| Processing: http_access allow Redlan
2025/01/18 21:07:46| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/18 21:07:46| Processing: logfile_rotate 0
2025/01/18 21:07:46| Processing: http_access deny all
2025/01/18 21:07:46| Processing: http_port 3128
2025/01/18 21:07:46| Processing: coredump_dir /var/spool/squid
2025/01/18 21:07:46| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/18 21:07:46| Processing: refresh_pattern -i (/cgi-bin/|\?) 0 0% 0
2025/01/18 21:07:46| Processing: refresh_pattern /(Packages|Sources)(|\.bz2|\\.gz|\\.xz)$ 0 0% 0 refresh-ims
2025/01/18 21:07:46| Processing: refresh_pattern \/Release$ 0 0% 0 refresh-ims
2025/01/18 21:07:46| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/18 21:07:46| Processing: refresh_pattern \/(Translation-.*)(|\.bz2|\\.gz|\\.xz)$ 0 0% 0 refresh-ims
2025/01/18 21:07:46| Processing: refresh_pattern . 0 20% 4320
Activar Windows
Ve a Configuración para activar Windows.
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

HTTP Forever - Windows Internet Explorer

http://httpforever.com/

Favorites Suggested Sites Web Slice Gallery

HTTP Forever

## HTTP FOREVER

A reliably insecure connection

### Why does this site exist?

This domain started out as my personal 'captive portal buster' but I wanted to publicise it for anyone to use. If you're on a train, in a hotel or bar, on a flight or anywhere that you have to login for WiFi, this site could help you!

### How does it work?

If you connect to a WiFi hotspot whilst out and about, sometimes you have to login or accept Terms and Conditions. To do that the 'captive portal' has to intercept one of your requests and inject the login page for the WiFi. This usually results in a big red warning from your browser which you should **never** click through! Instead, open a new tab in your browser and come here!

### Can I use it?

Yes! Anyone is free to use or link to this site, just make sure you're always on the HTTP version: <http://httpforever.com>

Error on page.

Internet | Protected Mode: On

100% 9:08 PM 1/18/2025

para comprobarlo he añadido el http forever a la lista de url prohibidas porque por ser windows 7 el buscador no accede a algunas páginas por estar desactualizado

#### 4. (1,5 puntos) OTROS Filtros HTTP\_ACCESS y HTTP\_REPLY\_ACCESS

Las siguientes restricciones se pueden demostrar individualmente. Si no se indica nada se deja que el alumno decida el ejemplo de lo que se quiere restringir.

a) (0,5 puntos) Restricciones por la directiva method, por ejemplo, que no se permita paquetes mediante método GET. Se debe mostrar evidencias de lo que ocurre mediante FIREBUG o herramientas de desarrollador.

```
GNU nano 7.2                                         almellonesfernandez-squid.conf
#client_netmask 255.255.0.0

acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever
acl lista_Navegadores_prohibidos_aaf browser -i Firefox
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
acl Hora_Allow_All time 18:00-19:00
acl mac Windows arp 00:0c:29:9f:78:77
acl bloqueo_metodo_get method GET

http_access deny bloqueo_metodo_get

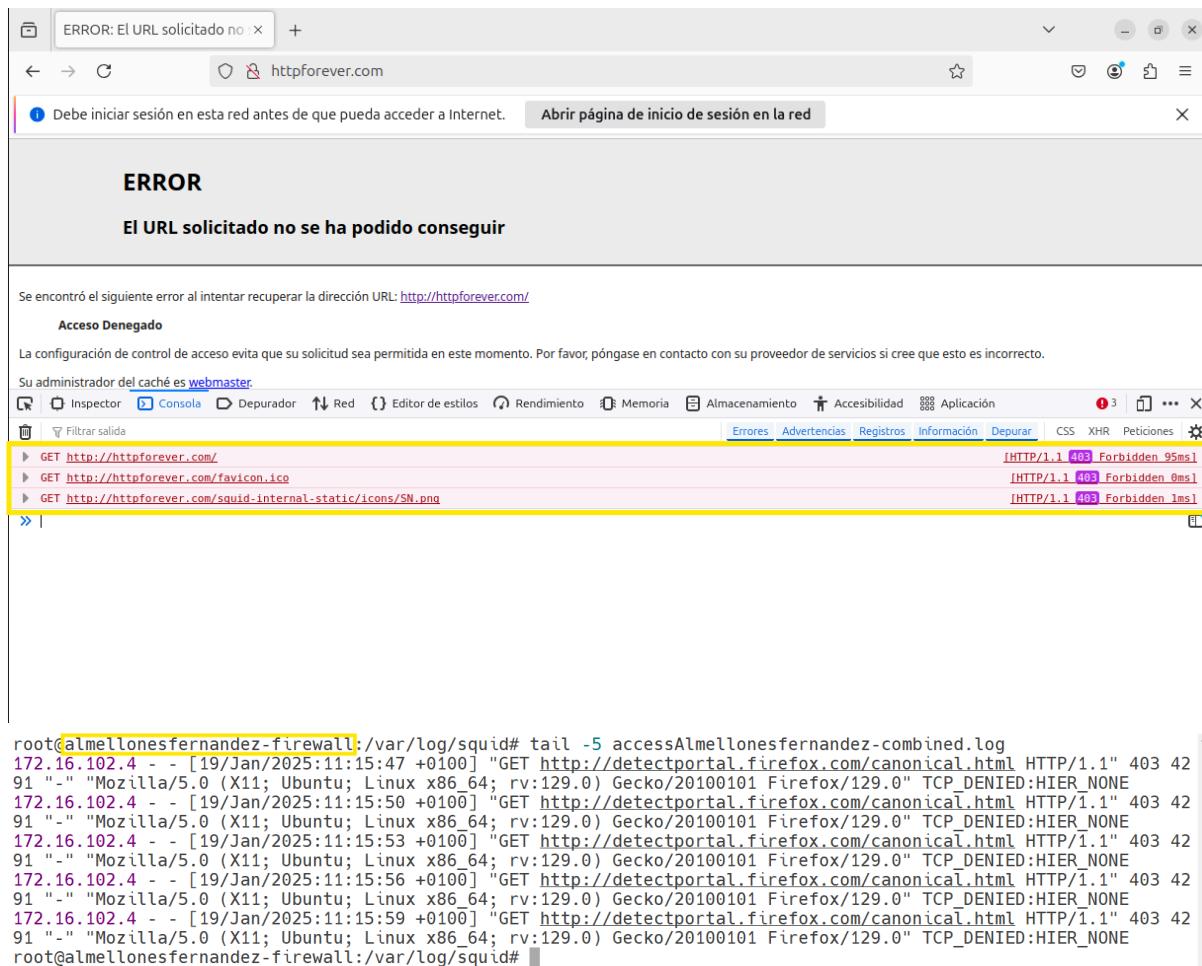
#http_access allow mac_Windows
#http_access allow Hora_Allow_All Redlan
#http_access deny lista_url_prohibidas_aaf
#deny_info https://www.game.es/ lista_url_prohibidas_aaf
#http_access deny lista_Navegadores_prohibidos_aaf
#http_access deny Lista_Dominios_Prohibidos_aaf
#deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf

http_access allow RedWlan
http_access allow Redlan

^G Help      ^O Write Out    ^W Where Is     ^K Cut          ^T Execute      ^C Location
^X Exit      ^R Read File    ^\ Replace       ^U Paste        ^J Justify      ^/ Go To Line
                                                ^A Activar Windows Undo
                                                M-U Cargar M-E Redo
                                                Windows.
```

```
2025/01/19 11:12:30| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/19 11:12:30| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/19 11:12:30| Processing: visible_hostname proxyAlmellonesfernandez.es
2025/01/19 11:12:30| Processing: logformat almellonesfernandez_formato %ts %tg %>a %<a %un %>rm %ru HTTP/%rv
%Sh/%<A %>Hs %<st %rm %ru %>a "%{Referer}>" "%{User-Agent}>" "%Ss:%Sh %tr %tg %{Header}>h
2025/01/19 11:12:30| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/19 11:12:30| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/19 11:12:30| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/19 11:12:30| Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever
2025/01/19 11:12:30| Processing: acl lista_Navegadores_prohibidos_aaf browser -i Firefox
2025/01/19 11:12:30| Processing: acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernande
z-domain.txt"
2025/01/19 11:12:30| Processing: acl Hora_Allow_All time 18:00-19:00
2025/01/19 11:12:30| Processing: acl mac_Windows arp 00:0c:29:9f:78:77
2025/01/19 11:12:30| Processing: acl bloqueo_metodo_get method GET
2025/01/19 11:12:30| Processing: http_access deny bloqueo_metodo_get
2025/01/19 11:12:30| Processing: http_access allow RedWlan
2025/01/19 11:12:30| Processing: http_access allow Redlan
2025/01/19 11:12:30| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/19 11:12:30| Processing: logfile_rotate 0
2025/01/19 11:12:30| Processing: http_access deny all
2025/01/19 11:12:30| Processing: http_port 3128
2025/01/19 11:12:30| Processing: coredump_dir /var/spool/squid
2025/01/19 11:12:30| Processing: refresh_pattern ^ftp:           1440   20%   10080
2025/01/19 11:12:30| Processing: refresh_pattern -i (/cgi-bin/|\?) 0   0%   0
2025/01/19 11:12:30| Processing: refresh_pattern \/(Packages|Sources)(|\!.bz2|\!.gz|\!.xz)$ 0 0% 0 refresh-ims
2025/01/19 11:12:30| Processing: refresh_pattern \/Release(\|\!.gpg)$ 0 0% 0 refresh-ims
2025/01/19 11:12:30| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/19 11:12:30| Processing: refresh_pattern \/(Translation-*)(|\!.bz2|\!.gz|\!.xz)$ 0 0% 0 refresh-ims
2025/01/19 11:12:30| Processing: refresh_pattern .               0   20%   4320
                                                ^A Activar Windows
                                                Ve a Configuración para activar Windows.
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

# Álvaro Almellones Fernández



b) (0,5 puntos) Restricciones por la directiva browser.

```
GNU nano 7.2                                     almellonesfernandez-squid.conf
#client_netmask 255.255.0.0

acl lista_url_prohibidas_aaf url_regex mercadona herska httpforever
acl lista_Navegadores_prohibidos_aaf browser -i chrome
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
acl Hora_Allow_All time 18:00-19:00
acl mac_Windows arp 00:0c:29:9f:78:77
acl bloqueo_metodo_get method GET

#http_access deny bloqueo_metodo_get

#http_access allow mac_Windows
#http_access allow Hora_Allow_All Redlan
#http_access deny lista_url_prohibidas_aaf
#deny_info https://www.game.es/ lista_url_prohibidas_aaf
http_access deny lista_Navegadores_prohibidos_aaf

#http_access deny Lista_Dominios_Prohibidos_aaf
#deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf

http_access allow RedWlan
http_access allow Redlan
```

## Álvaro Almellones Fernández

```
2025/01/19 11:54:48| Processing: acl RedWlan src 192.168.102.0/24 ##Zona transparente
2025/01/19 11:54:48| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/19 11:54:48| Processing: visible_hostname proxyAlmellonesfernandez.es
2025/01/19 11:54:48| Processing: logformat almellonesfernandez_formato %ts %tg %>a %<a %un %>rm %ru HTTP/%rv
%Sh/%<A %>Hs %<t %rm %ru %>a "%{Referer}>" "%{User-Agent}>" "%Ss:%Sh %tr %tg %{Header}>h
2025/01/19 11:54:48| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/19 11:54:48| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/19 11:54:48| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/19 11:54:48| Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever
2025/01/19 11:54:48| Processing: acl lista_Navegadores_prohibidos_aaf browser -i chrome
2025/01/19 11:54:48| Processing: acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernande
z-domain.txt"
2025/01/19 11:54:48| Processing: acl Hora_Allow_All time 18:00-19:00
2025/01/19 11:54:48| Processing: acl mac_Windows arp 00:0c:29:9f:78:77
2025/01/19 11:54:48| Processing: acl bloqueo_metodo_get method GET
2025/01/19 11:54:48| Processing: http_access deny lista_Navegadores_prohibidos_aaf
2025/01/19 11:54:48| Processing: http_access allow RedWlan
2025/01/19 11:54:48| Processing: http_access allow Redlan
2025/01/19 11:54:48| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/19 11:54:48| Processing: logfile_rotate 0
2025/01/19 11:54:48| Processing: http_access deny all
2025/01/19 11:54:48| Processing: http_port 3128
2025/01/19 11:54:48| Processing: coredump_dir /var/spool/squid
2025/01/19 11:54:48| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/19 11:54:48| Processing: refresh_pattern -i (/cgi-bin/|\.?) 0 0% 0
2025/01/19 11:54:48| Processing: refresh_pattern \/(Packages|Sources)(|\.\bz2|\.\gz|\.\xz)$ 0 0% 0 refresh-ims
2025/01/19 11:54:48| Processing: refresh_pattern \/Release( |\.\gpg)$ 0 0% 0 refresh-ims
2025/01/19 11:54:48| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/19 11:54:48| Processing: refresh_pattern \/(Translation-.*)(|\.\bz2|\.\gz|\.\xz)$ 0 0% 0 refresh-ims
2025/01/19 11:54:48| Processing: refresh_pattern . 0 20% 4320 Activar Windows
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ curl -A "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:115.0
) Gecko/20100101 Firefox/115.0" http://example.com/
<!doctype html>
<html>
<head>
```

```
<title>Example Domain</title>

<meta charset="utf-8" />
<meta http-equiv="Content-type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<style type="text/css">
body {
    background-color: #f0f0f2;
    margin: 0;
    padding: 0;
    font-family: -apple-system, system-ui, BlinkMacSystemFont, "Segoe UI", "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-serif;
}

div {
```

```
almellonesfernandez@almellonesfernandez-us-intranet:~$ curl -A "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/115.0.0.0 Safari/537.36" http://example.com/
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta type="copyright" content="Copyright (C) 1996-2021 The Squid Software Foundation and contributors">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title>ERROR: The requested URL could not be retrieved</title>
<style type="text/css"><!--
/*
 * Copyright (C) 1996-2023 The Squid Software Foundation and contributors
 *
 * Squid software is distributed under GPLv2+ license and includes
 * contributions from numerous individuals and organizations.
 * Please see the COPYING and CONTRIBUTORS files for details.
 */

/*
Stylesheet for Squid Error pages
Adapted from design by Free CSS Templates
http://www.freecsstemplates.org
Released for free under a Creative Commons Attribution 2.5 License
*/
```

Álvaro Almellones Fernández

**Estoy usando curl porque estoy teniendo problemas para abrir muchas cosas en el desktop por tener poca ram**

- c) **(0,5 puntos)** Restricciones por la directiva rep\_mime\_type.

Álvaro Almellones Fernández

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2005-09-20 [Francais]: [Critique de livre : The Linux Enterprise Cluster](#)

2005-09-14 [Francais]: [Un thermomètre digital ou parler « I2C » à votre](#)

**new.linuxfocus.org up and running**

2005-12-09 The new LF is now available at [new.linuxfocus.org](#)

**Hubert Kaiser died**

2005-11-19 One of the former translators of the German team died unexpectedly on 2005-11-19. He was active in LinuxFocus for many years and was a very reliable translator. Our sympathy goes to friends and family.

**Goodbye Guido**

2005-08-20 After many years of very interesting work with LinuxFocus I (Guido Socher) will leave the project. It is difficult step because LinuxFocus was once my passion and hobby, so there are a lot of feelings involved, but I can't do it forever.

I will move on to [http://tuxgraphics.org](#). The recently started series on microcontroller programming will continue at tuxgraphics.org.

There are a number of people who are willing to continue LinuxFocus. Write to new(at)linuxfocus.org if you

**GNU nano 7.2**

**almellonesfernandez-squid.conf**

```
acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever
acl lista_Navegadores_prohibidos_aaf browser -i chrome
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
acl Hora_Allow_All time 18:00-19:00
acl mac_Windows arp 00:0c:29:f9:78:77
acl bloqueo_metodo_get method GET
acl bloqueo_imagenes rep_mime_type -i ^image/
http_reply_access deny bloqueo_imagenes
#http_access deny bloqueo_metodo_get

#http_access allow mac_Windows
#http_access allow Hora_Allow_All Redlan

#http_access deny lista_url_prohibidas_aaf
#deny_info https://www.game.es/ lista_url_prohibidas_aaf

#http_access deny lista_Navegadores_prohibidos_aaf

#http_access deny Lista_Dominios_Prohibidos_aaf
#deny_info https://www.eroski.es/ Lista_Dominios_Prohibidos_aaf

http_access allow RedWlan
http_access allow Redlan
```

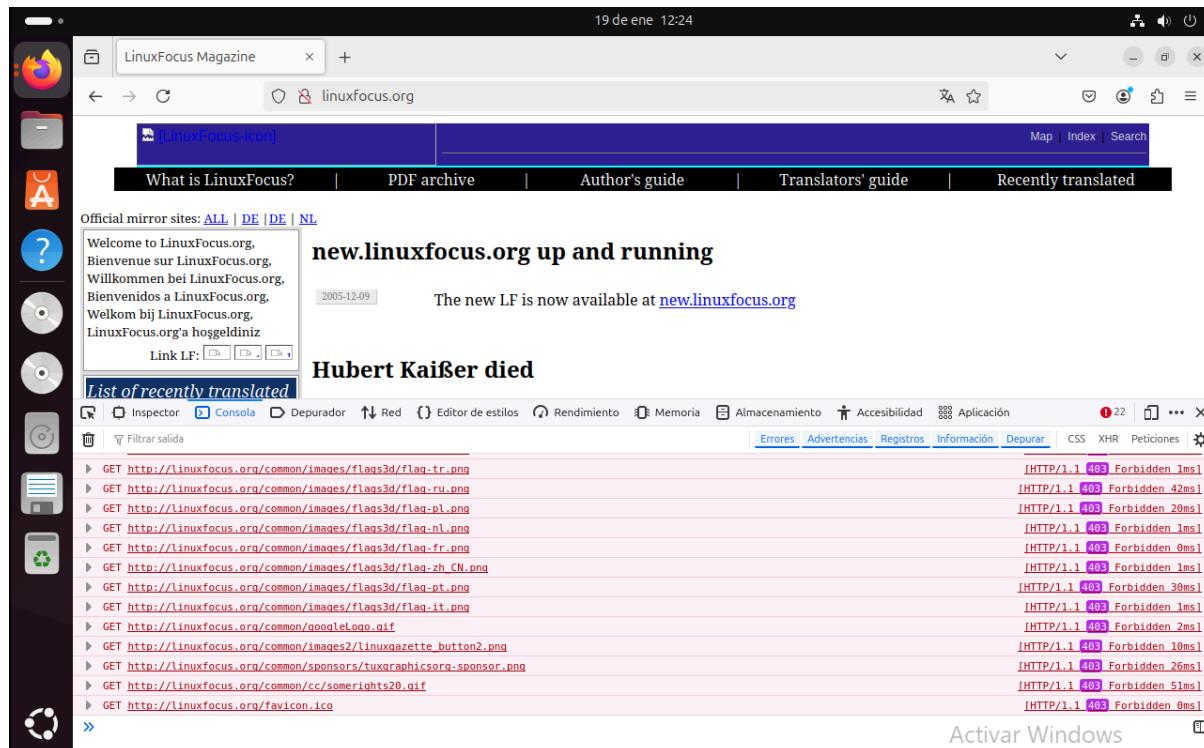
Altar Windows Undo  
^G Help ^O Write Out ^W Where Is ^K Cut ^U Paste ^T Execute ^J Justify ^C Location ^L Go To Line ^M-E Redo  
^X Exit ^R Read File ^V Replace ^Y Undo ^Z Redo

## Álvaro Almellones Fernández

```
2025/01/19 12:24:57| Processing: acl Redlan src 172.16.102.0/24 ##Zona transparente
2025/01/19 12:24:57| Processing: visible_hostname proxyAlmellonesfernandez.es
2025/01/19 12:24:57| Processing: logformat almellonesfernandez_formato %ts %tg %>a %<a %ul %un %>rm %ru HTTP/%rv
%Sh/%<A %>Hs %<st %rm %ru %>a "%{Referer}>h" "%{User-Agent}>h" %Ss:%Sh %tr %tg %{Header}>h
2025/01/19 12:24:57| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
2025/01/19 12:24:57| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
2025/01/19 12:24:57| Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme
llonesfernandez_formato
2025/01/19 12:24:57| Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever
2025/01/19 12:24:57| Processing: acl lista_Navegadores_prohibidos_aaf browser -i chrome
2025/01/19 12:24:57| Processing: acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernande
z-domain.txt"
2025/01/19 12:24:57| Processing: acl Hora_Allow_All time 18:00-19:00
2025/01/19 12:24:57| Processing: acl mac_Windows arp 00:0c:29:9f:78:77
2025/01/19 12:24:57| Processing: acl bloqueo_metodo_get method GET
2025/01/19 12:24:57| Processing: acl bloqueo_imagenes rep_mime_type -i ^image/
2025/01/19 12:24:57| Processing: http_reply_access deny bloqueo_imagenes
2025/01/19 12:24:57| Processing: http_access allow RedWlan
2025/01/19 12:24:57| Processing: http_access allow Redlan
2025/01/19 12:24:57| Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)
2025/01/19 12:24:57| Processing: logfile_rotate 0
2025/01/19 12:24:57| Processing: http_access deny all
2025/01/19 12:24:57| Processing: http_port 3128
2025/01/19 12:24:57| Processing: coredump_dir /var/spool/squid
2025/01/19 12:24:57| Processing: refresh_pattern ^ftp: 1440 20% 10080
2025/01/19 12:24:57| Processing: refresh_pattern -i (/cgi-bin/|\.?) 0 0% 0
2025/01/19 12:24:57| Processing: refresh_pattern \/(Packages|Sources)(\|\.bz2|\|\.gz|\|\.xz)$ 0 0% 0 refresh-ims
2025/01/19 12:24:57| Processing: refresh_pattern \/Release(\|\.gpg)$ 0 0% 0 refresh-ims
2025/01/19 12:24:57| Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims
2025/01/19 12:24:57| Processing: refresh_pattern \/(Translation-.*)(\|\.bz2|\|\.gz|\|\.xz)$ 0 0% 0 refresh-ims
2025/01/19 12:24:57| Processing: refresh_pattern . 0 20% 4320
```

Activar Windows

Ve a Configuración para activar Windows.



## 5. (1,5 puntos) PROXY EN MODO TRANSPARENTE.

a) (0,75 puntos) Establezca ahora que en la zona LAN el proxy web funciona en modo no transparente y muestre las evidencias que crea necesario. No se olvide de realizar de que funciona correctamente la actualización en Ubuntu (apt-get).

```
GNU nano 7.2                                         almellonesfernandez-squid.conf
http_port 172.16.102.1:3128 #Zona LAN no transparente
http_port 192.168.102.1:3129 intercept #Zona Wlan transparente

acl RedWlan src 192.168.102.0/24 ##Zona transparente
acl Redlan src 172.16.102.0/24 ##Zona transparente

#deny_info https://www.naughtydog.com/ all

visible_hostname proxyAlmellonesfernandez.es

logformat almellonesfernandez_formato %ts %tg %>a %<a %ul %un %>rm %ru HTTP/%rv %Sh/%<A %>Hs %<st %rm %ru %>a "%"

access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log almellonesfernandez_formato

#client_netmask 255.255.0.0

acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever
acl lista_Navegadores_prohibidos_aaf browser -i chrome
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
acl Hora_Allow_All_time 18:00-19:00
acl mac_Windows arp 00:0c:29:9f:78:77
acl bloqueo_metodo_get method GET
acl bloqueo_imagenes rep_mime_type -i ^image/

#http_reply_access deny bloqueo_imagenes
#http_access deny bloqueo_metodo_get

[ Read 45 lines ]                                     [ Read 45 lines ]
^G Help      ^O Write Out   ^W Where Is   ^K Cut        ^T Execute   ^C Location  Alt+U Undo
^X Exit      ^R Read File   ^Y Replace    ^U Paste     ^J Justify   ^V Go To Line M-U Configure M-E Redo
                                                Alt+L Configuration M-D Other Windows.

```

### Quito el intercept del http\_port de Lan

```
root@almellonesfernandez-firewall:/etc/squid/conf.d# iptables -t nat -L -n -v
Chain PREROUTING (policy ACCEPT 44 packets, 2434 bytes)
  pkts bytes target  prot opt in     out     source               destination
    0    0 REDIRECT  6  --  wlan2  *      192.168.102.0/24  0.0.0.0/0          tcp dpt:80 redir ports 31
29
    0    0 DNAT     6  --  wan2   *      0.0.0.0/0           0.0.0.0/0          tcp dpt:443 to:10.0.102.2
    0    0 DNAT     6  --  wan2   *      0.0.0.0/0           0.0.0.0/0          tcp dpt:2222 /* Ej NATP */
/ to:10.0.102.2:22

Chain INPUT (policy ACCEPT 0 packets, 0 bytes)
  pkts bytes target  prot opt in     out     source               destination

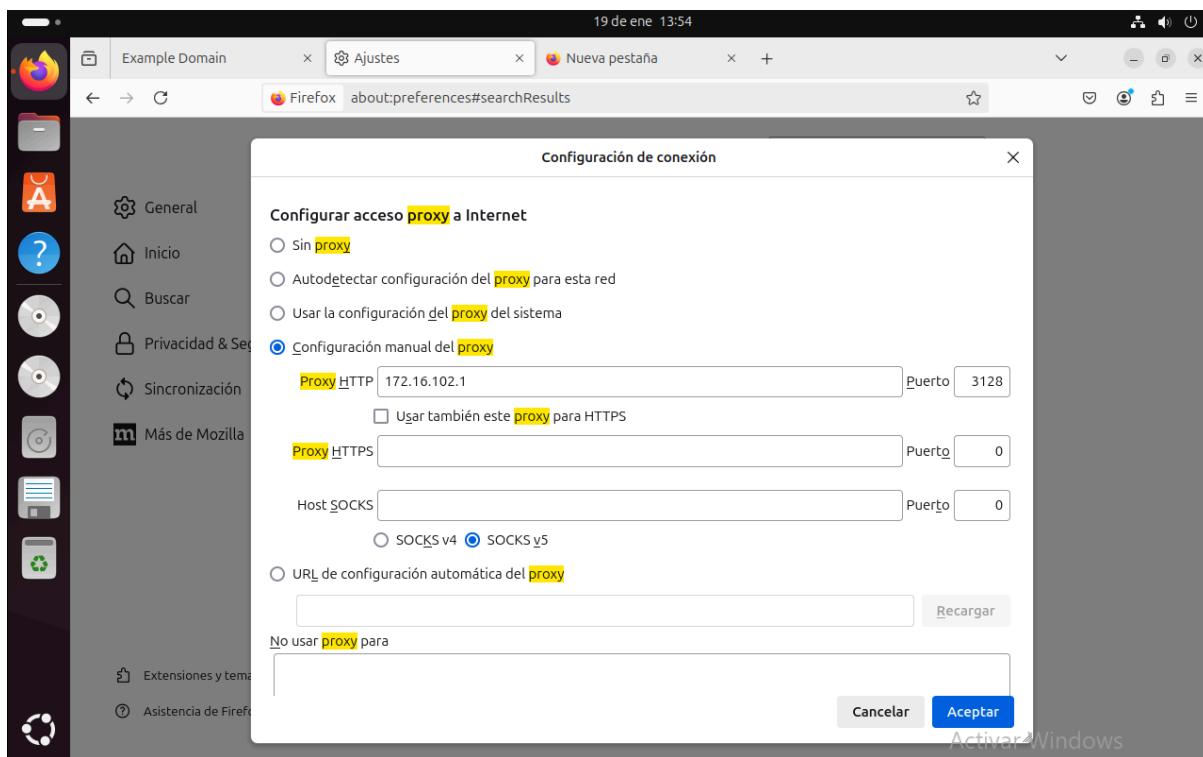
Chain OUTPUT (policy ACCEPT 0 packets, 0 bytes)
  pkts bytes target  prot opt in     out     source               destination

Chain POSTROUTING (policy ACCEPT 17 packets, 1120 bytes)
  pkts bytes target  prot opt in     out     source               destination
    0    0 MASQUERADE 0  --  *      wan2   10.0.102.0/24  0.0.0.0/0          /* Enmascar de DMZ a WAN
*/
    3  216 MASQUERADE 0  --  *      wan2   172.16.102.0/24  0.0.0.0/0          /* Enmascar de LAN a WAN
*/
    0    0 MASQUERADE 0  --  *      wan2   192.168.102.0/24  0.0.0.0/0          /* Enmascar de WLAN a WA
N */

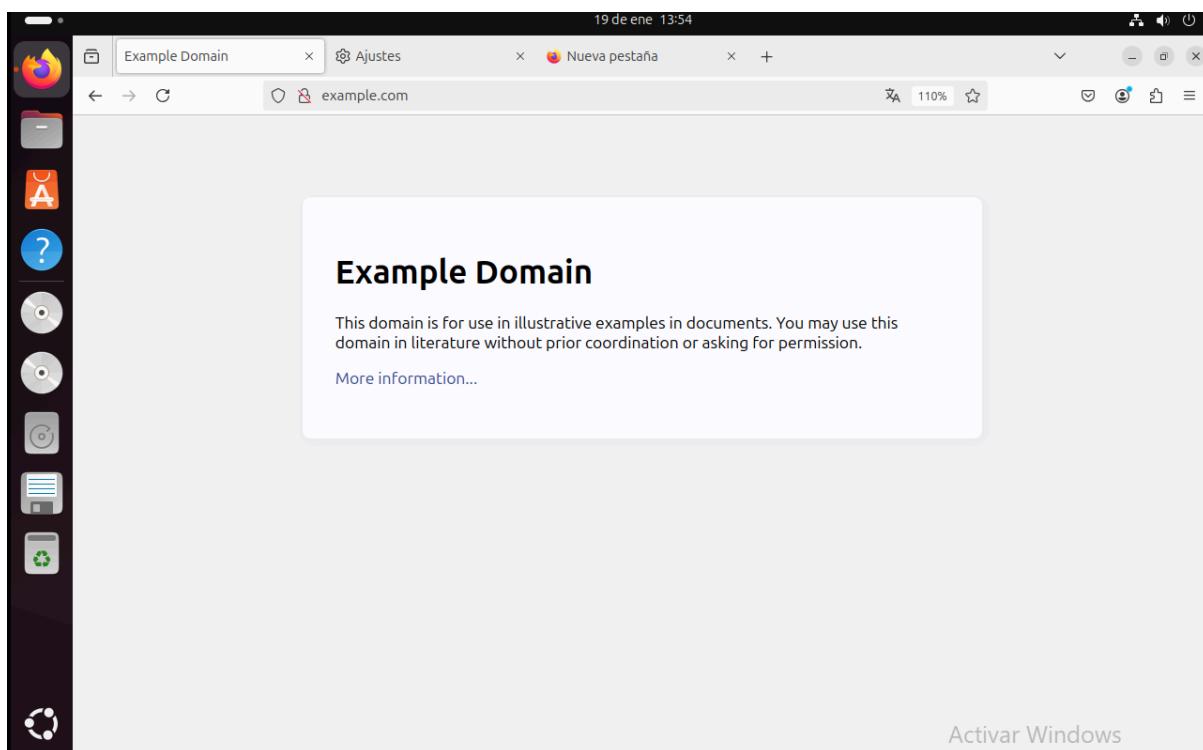
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

Solo dejo el prerouting de wlan

## Álvaro Almellones Fernández



## Configuro el proxy en el navegador

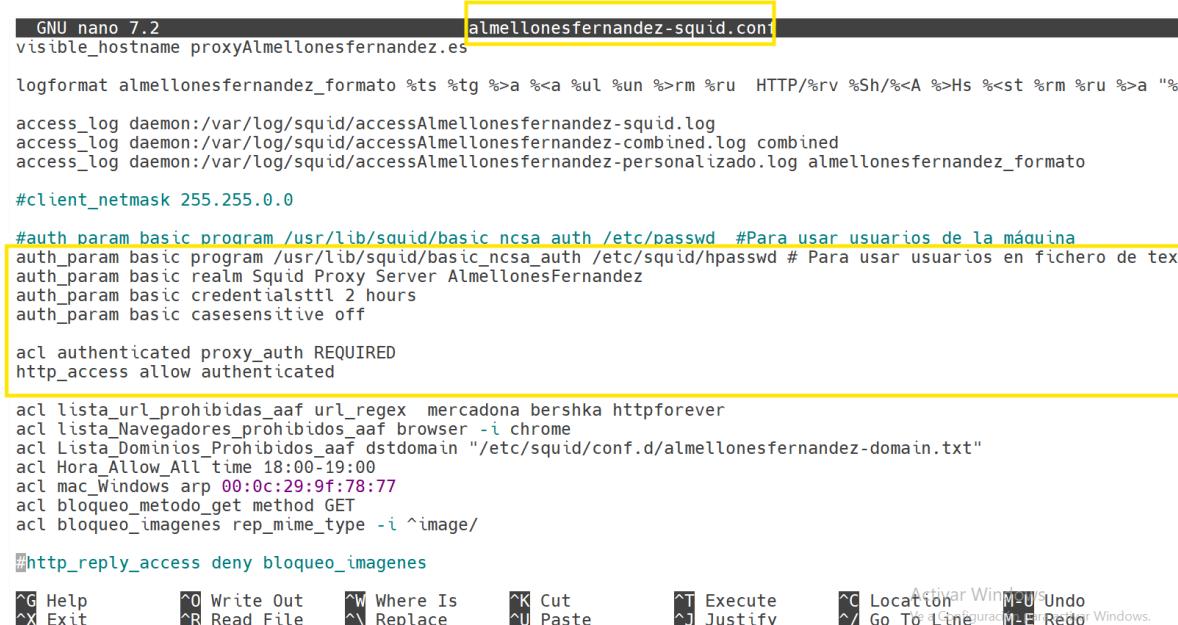


## Álvaro Almellones Fernández

```
root@almellonesfernandez-us-intranet:/etc/apt/apt.conf.d# cat 95proxies
Acquire::http::Proxy "http://172.16.102.1:3128";
root@almellonesfernandez-us-intranet:/etc/apt/apt.conf.d# apt update
Obj:1 http://archive.ubuntu.com/ubuntu noble InRelease
Des:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Des:3 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Des:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Des:5 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [586 kB]
Des:6 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [114 kB]
Des:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [7.252 B]
Des:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [572 kB]
Des:9 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [110 kB]
Des:10 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Des:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [800 kB]
Des:12 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [171 kB]
Des:13 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52,0 kB]
Des:14 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [12,4 kB]
```

b) **(0,75 puntos)** Configure proxy web para que solicite usuario/contraseña

mediante htpasswd.



```
GNU nano 7.2
visible_hostname proxyAlmellonesfernandez.es
albellonesfernandez-squid.conf

logformat almellonesfernandez_formato %ts %tg %>a %<a %ul %un %>rm %ru HTTP/%rv %Sh/%A %>Hs %<st %rm %ru %>a "%>
access_log daemon:/var/log/squid/accessAlmellonesfernandez-squid.log
access_log daemon:/var/log/squid/accessAlmellonesfernandez-combined.log combined
access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log almellonesfernandez_formato

#client_netmask 255.255.0.0

#auth_param basic program /usr/lib/squid/basic_ncsa_auth /etc/passwd #Para usar usuarios de la máquina
auth_param basic program /usr/lib/squid/basic_ncsa_auth /etc/squid/htpasswd # Para usar usuarios en fichero de texto
auth_param basic realm Squid Proxy Server AlmellonesFernandez
auth_param basic credentialsttl 2 hours
auth_param basic casesensitive off

acl authenticated proxy_auth REQUIRED
http_access allow authenticated

acl lista_url_prohibidas_aaf url_regex mercadona berska httpforever
acl lista_Navegadores_prohibidos_aaf browser _i chrome
acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernandez-domain.txt"
acl Hora_Allow_All_time 18:00-19:00
acl mac_Windows arp 00:0c:29:9f:78:77
acl bloqueo_metodo_get method GET
acl bloqueo_imagenes rep_mime_type _i ^image/

http_reply_access deny bloqueo_imagenes

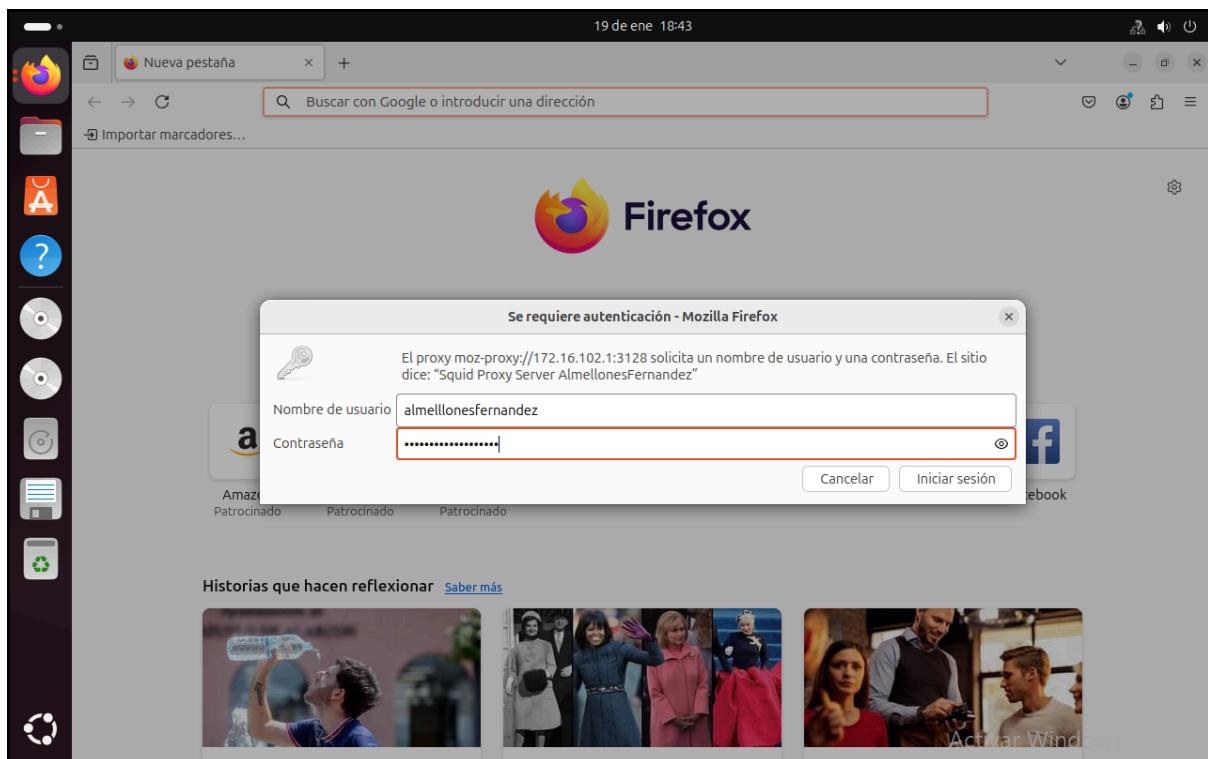
^G Help      ^O Write Out    ^W Where Is      ^K Cut      ^T Execute      ^C Location      ^U Undo
^X Exit      ^R Read File    ^V Replace     ^U Paste     ^J Justify      ^Y Go To Line    M-U Undo
                                                ^C Configuration   M-U Redo
                                                ^Y Go To Line    M-E Redo
```

```
root@almellonesfernandez-firewall:/etc/squid/conf.d# htpasswd -c /etc/squid/htpasswd almellonesfernandez
New password:
Re-type new password:
Adding password for user almellonesfernandez
root@almellonesfernandez-firewall:/etc/squid/conf.d#
```

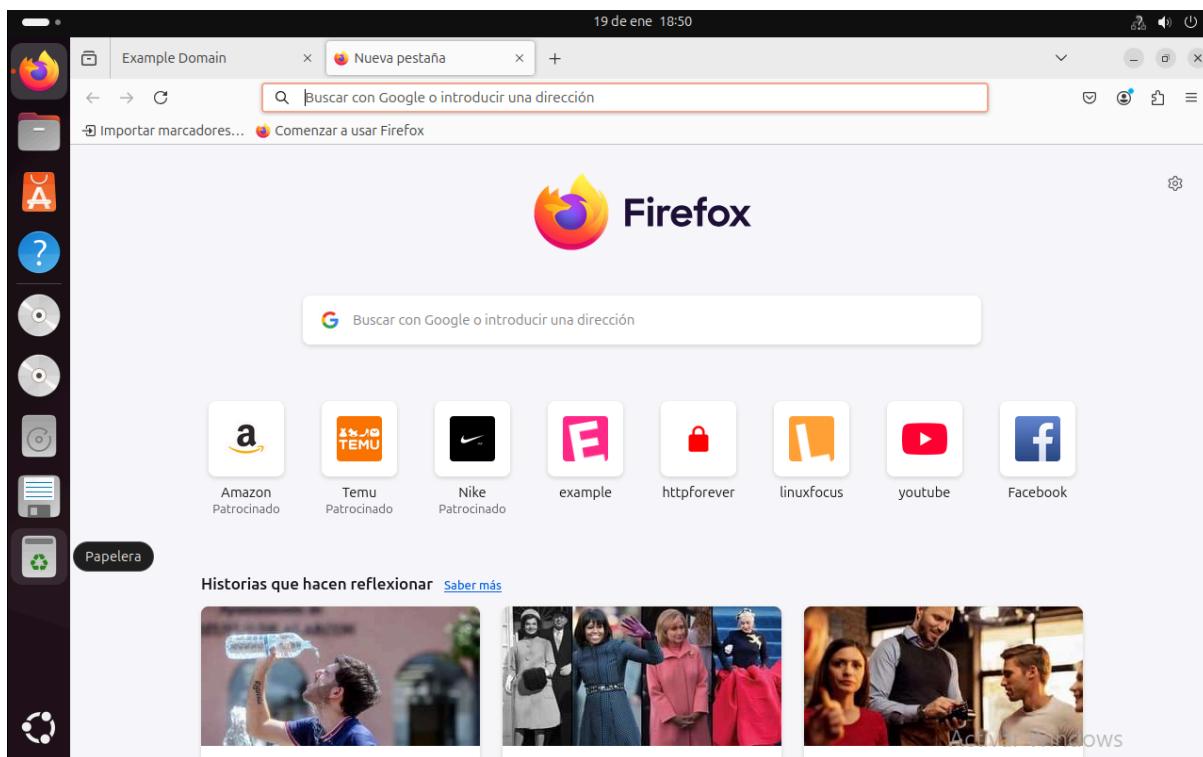
## Álvaro Almellones Fernández

```
2025/01/19 18:47:33] Processing: access_log daemon:/var/log/squid/accessAlmellonesfernandez-personalizado.log alme  
llonesfernandez formato  
2025/01/19 18:47:33] Processing: auth_param basic program /usr/lib/squid/basic_ncsa_auth /etc/squid/hpasswd # Para  
usar usuarios en fichero de texto  
2025/01/19 18:47:33] Processing: auth_param basic realm Squid Proxy Server AlmellonesFernandez  
2025/01/19 18:47:33] Processing: auth_param basic credentialsttl 2 hours  
2025/01/19 18:47:33] Processing: auth_param basic casesensitive off  
2025/01/19 18:47:33] Processing: acl authenticated proxy_auth REQUIRED  
2025/01/19 18:47:33] Processing: http_access allow authenticated  
2025/01/19 18:47:33] Processing: acl lista_url_prohibidas_aaf url_regex mercadona bershka httpforever  
2025/01/19 18:47:33] Processing: acl lista_Navegadores_prohibidos_aaf browser -i chrome  
2025/01/19 18:47:33] Processing: acl Lista_Dominios_Prohibidos_aaf dstdomain "/etc/squid/conf.d/almellonesfernande  
z-domain.txt"  
2025/01/19 18:47:33] Processing: acl Hora_Allow_All time 18:00-19:00  
2025/01/19 18:47:33] Processing: acl mac_Windows arp 00:0c:29:9f:78:77  
2025/01/19 18:47:33] Processing: acl bloqueo_metodo_get method GET  
2025/01/19 18:47:33] Processing: acl bloqueo_imagenes rep_mime_type -i ^image/  
2025/01/19 18:47:33] Processing: http_access allow RedWlan  
2025/01/19 18:47:33] Processing: http_access allow Redlan  
2025/01/19 18:47:33] Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1)  
2025/01/19 18:47:33] Processing: logfile_rotate 0  
2025/01/19 18:47:33] Processing: http_access deny all  
2025/01/19 18:47:33] Processing: http_port 3128  
2025/01/19 18:47:33] Processing: coredump_dir /var/spool/squid  
2025/01/19 18:47:33] Processing: refresh_pattern ^ftp: 1440 20% 10080  
2025/01/19 18:47:33] Processing: refresh_pattern -i (/cgi-bin/|\\?) 0 0% 0  
2025/01/19 18:47:33] Processing: refresh_pattern \/(Packages|Sources)(|.bz2|.gz|.xz)$ 0 0% 0 refresh-ims  
2025/01/19 18:47:33] Processing: refresh_pattern \/Release(|\\.pgp)$ 0 0% 0 refresh-ims  
2025/01/19 18:47:33] Processing: refresh_pattern \/InRelease$ 0 0% 0 refresh-ims  
2025/01/19 18:47:33] Processing: refresh_pattern \/(Translation-.*)(|.bz2|.gz|.xz)$ 0 0% 0 refresh-ims  
2025/01/19 18:47:33] Processing: refresh_pattern . 0 20% 4320  
root@almellonesfernandez-firewall:/etc/squid/conf.d# █
```

Activar Windows  
Ve a Configuración para activar Windows.



## Álvaro Almellones Fernández



\*\*\* Una vez terminado este apartado número 5 reestablezca para que quede en modo no transparente.