



root@squid-s22: ~



```
root@squid-s22:~# sudo apt update
```



root@squid-s22: ~



```
root@squid-s22:~# apt install squid dansguardian -y
```



```
root@squid-s22:~# apt install squid e2guardian -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  clamav clamav-base clamav-daemon clamav-freshclam clamdscan libclamav9
  libdbi-perl libecap3 libtfm1 squid-common squid-langpack ssl-cert
Suggested packages:
  libclamunrar clamav-docs daemon libclamunrar9 libclone-perl libmldbm-perl
  libnet-daemon-perl libsql-statement-perl squidclient squid-cgi squid-purge
  resolvconf smbclient winbind openssl-blacklist
The following NEW packages will be installed:
  clamav clamav-base clamav-daemon clamav-freshclam clamdscan e2guardian
  libclamav9 libdbi-perl libecap3 libtfm1 squid squid-common squid-langpack
  ssl-cert
0 upgraded, 14 newly installed, 0 to remove and 173 not upgraded.
Need to get 5934 kB of archives.
After this operation, 25.5 MB of additional disk space will be used.
Get:1 http://mirror.cs.dixie.edu/ubuntu focal-updates/main amd64 clamav-base all
  0.103.5+dfsg-1~20.04.1 [78.2 kB]
Get:2 http://mirror.cs.dixie.edu/ubuntu focal/main amd64 libtfm1 amd64 0.13-4 [5
  7.0 kB]
Get:3 http://mirror.cs.dixie.edu/ubuntu focal-updates/main amd64 libclamav9 amd6
  4 0.103.5+dfsg-1~20.04.1 [838 kB]
```



root@squid-s22: ~



```
root@squid-s22:~# service squid status
```

```
root@squid-s22:~# service e2guardian status
```

```
● e2guardian.service - E2guardian Web filtering
```

```
Loaded: loaded (/lib/systemd/system/e2guardian.service; enabled; vendor pr
```

```
Active: active (running) since Mon 2022-03-07 17:54:42 UTC; 50s ago
```

```
Docs: http://e2guardian.org/
```

```
Main PID: 3013 (e2guardian)
```

```
Tasks: 504 (limit: 2282)
```

```
Memory: 31.6M
```

```
CGroup: /system.slice/e2guardian.service
```

```
└─3013 /usr/sbin/e2guardian
```

```
Mar 07 17:54:42 squid-s22 systemd[1]: Starting E2guardian Web filtering...
```

```
Mar 07 17:54:42 squid-s22 systemd[1]: Started E2guardian Web filtering.
```

```
Mar 07 17:54:42 squid-s22 e2guardian[3013]: Started successfully.
```

```
lines 1-13/13 (END)
```



```
root@squid-s22:/etc/squid# echo "Verify squid is running at 3128"
```

```
Verify squid is running at 3128
```

```
root@squid-s22:/etc/squid# netstat -natp | grep 3128
```

```
tcp6          0          0 :::3128          :::*              LISTEN
```

```
2036/(squid-1)
```

```
root@squid-s22:/etc/squid# echo "yay"
```

```
yay
```

```
root@squid-s22:/etc/squid# █
```



```
root@squid-s22:/etc/e2guardian# echo "Change the port that e2guardian listens to"
```

```
Change the port that e2guardian listens to
```

```
root@squid-s22:/etc/e2guardian# █
```



root@squid-s22: /etc/e2guardian



```
root@squid-s22:/etc/e2guardian# vi e2guardian.conf
```



```
# Include all e2g host server IPs and any VIP used when when in an array.
# Specify each IP on an individual checkip line.
#
# Defaults: Not set - no loop prevention
#
checkip = 127.0.0.1

# the ports that e2guardian listens to. Specify one line per filterip
# line. If both mapportstoips and mapauthports are set to 'on'
# you can specify different authentication mechanisms per port but
# only if the mechanisms can co-exist (e.g. basic/proxy auth can't)
filterports = 8282
#filterports = 8081

# Map ports to IPs
# If enabled map filterports to filterip - number of filterports must then be sa
me as
# number of filterip
# If disabled will listen on all filterports on all filterips.
# on (default) | off
mapportstoips = off

#port for transparent https
"e2guardian.conf" 735L, 28706C written 164,18 21%
```

```
transparenthttpport = 8443

#port for ICAP
#if defined enables icap mode
#icapport = 1344

# the ip of upstream proxy - optional - if blank e2g will go direct to sites.
# default is "" i.e. no proxy
#proxyip = 127.0.0.1

# the port e2guardian connects to proxy on
proxyport = 3128

# Proxy timeout
# Set tcp timeout between the Proxy and e2guardian
# This is a connection timeout
# If proxy is remote you may need to increase this to 10 or more.
# Min 5 - Max 100
proxytimeout = 5

# Connect timeout
# Set tcp timeout between the e2guardian and upstream service (proxy or target host)
"e2guardian.conf" 735L, 28705C written 187,1 24%
```

```
root@squid-s22:/etc/e2guardian# vi e2guardian.conf
root@squid-s22:/etc/e2guardian# echo "I also told e2guardian to forward requests
onto the squid server"
I also told e2guardian to forward requests onto the squid server
root@squid-s22:/etc/e2guardian# █
```



root@squid-s22: /etc/e2guardian



```
root@squid-s22:/etc/e2guardian# service e2guardian restart
```

```
root@squid-s22:/etc/e2guardian# service e2guardian restart
```

```
root@squid-s22:/etc/e2guardian# netstat -natp
```

```
Active Internet connections (servers and established)
```

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	0	0	127.0.0.53:53	0.0.0.0:*	LISTEN	591/systemd-resolve
tcp	0	0	0.0.0.0:22	0.0.0.0:*	LISTEN	666/sshd: /usr/sbin
tcp	0	0	0.0.0.0:8282	0.0.0.0:*	LISTEN	4641/e2guardian
tcp	0	0	0.0.0.0:8443	0.0.0.0:*	LISTEN	4641/e2guardian
tcp	0	28	144.38.216.30:22	144.38.198.18:43454	ESTABLISHED	1122/sshd: root@pts
tcp	0	0	127.0.0.1:8080	127.0.0.1:36054	TIME_WAIT	-
tcp	0	0	127.0.0.1:8443	127.0.0.1:57806	TIME_WAIT	-
tcp6	0	0	:::22	:::*	LISTEN	666/sshd: /usr/sbin
tcp6	0	0	:::3128	:::*	LISTEN	2036/(squid-1)

```
root@squid-s22:/etc/e2guardian#
```



```
root@squid-s22:/etc/e2guardian# echo "It is listening"
```

```
It is listening
```

```
root@squid-s22:/etc/e2guardian# █
```

<https://addons.mozilla.org> › [en-US](#) › [firefox](#) › [addon](#) ⋮

FoxyProxy Standard – Get this Extension for Firefox (en-US)

Jul 29, 2020 — **FoxyProxy** is an advanced proxy management tool that completely replaces Firefox's limited proxying capabilities. For a simpler tool and less ...

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FoxyProxy - Home

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FoxyProxy Standard

by [Eric H. Jung](#)

FoxyProxy is an advanced proxy management tool that completely replaces Firefox's limited proxying capabilities. For a simpler tool and less advanced configuration options, please use FoxyProxy Basic.

Add to Firefox



Other Bookmarks



FoxyProxy Options



Add



Import Settings



Import Proxy List



Export Settings



Delete All



Delete Browser Data



What's My IP?




Log



About

Synchronize Settings ?



You do not have any proxy settings. Please click  **Add** to start.

Title or Description (optional)

squidConnection


Color

#66cc66

Pattern Shortcuts

Enabled

On

Add whitelist pattern to match all URLs 

On


Do not use for localhost and intranet/private IP addresses

Off



Proxy Type

HTTP

Proxy IP address or DNS name 


localhost

Port 

3128

Username (optional)

username

Password (optional) 

Cancel

Save & Add Another

Save & Edit Patterns

Save



FoxyProxy Options



Add



Import Settings



Import Proxy List



Export Settings



Delete All



Delete Browser Data



What's My IP?



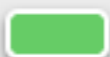
Log



About

Turn Off (Use Firefox Settings) ▼

Synchronize Settings ? Off



squidConn... localhost



On



Edit

Patterns



```
root@squid-s22:/etc/e2guardian# echo "I chose localhost because, you should build a  
n ssh tunnel and forward that port over it"
```

```
I chose localhost because, you should build an ssh tunnel and forward that port ove  
r it
```

```
root@squid-s22:/etc/e2guardian# echo "Why?"
```

```
Why?
```

```
root@squid-s22:/etc/e2guardian# █
```



FoxyProxy Options

- Add
- Import Settings
- Import Proxy List
- Export Settings
- Delete All
- Delete Browser Data
- What's My IP?
- Log
- About

squidConnection

Synchronize Settings Off

squidConn... localhost



On

Edit

Patterns





```
root@squid-s22:/etc/squid# echo "That is one of the main sections that we can modify to add our own rules"
```

```
That is one of the main sections that we can modify to add our own rules
```

```
root@squid-s22:/etc/squid# echo "note we are only allowing our localhost to connect to our proxy and denying everything else"
```

```
note we are only allowing our localhost to connect to our proxy and denying everything else
```

```
root@squid-s22:/etc/squid# █
```



root@squid-s22: /etc/squid



root@squid-s22: /etc/squid



joe@yavin: ~



```
root@squid-s22:/etc/squid# echo "All accesses to our proxy for now are denied"
All accesses to our proxy for now are denied
root@squid-s22:/etc/squid# █
```

```
# We strongly recommend the following be uncommented to protect innocent
# web applications running on the proxy server who think the only
# one who can access services on "localhost" is a local user
#http_access deny to_localhost
```

```
#
# INSERT YOUR OWN RULE(S) HERE TO ALLOW ACCESS FROM YOUR CLIENTS
#
```

```
#I am allowing the ssh server to connect to the proxy server
```

```
acl mynet src 144.38.192.40
```

```
include /etc/squid/conf.d/*
```

```
# Example rule allowing access from your local networks.
```

```
# Adapt localnet in the ACL section to list your (internal) IP networks
```

```
# from where browsing should be allowed
```

```
# I put an allow rule here
```

```
http_access allow mynet
```

```
http_access allow localhost
```

```
# And finally deny all other access to this proxy
```

```
http_access deny all
```

```
# TAG: adapted_http_access
```

```
"squid.conf" 8589L, 316986C written
```

```
1411,26
```

```
16%
```

```
root@squid-s22:/etc/squid# echo "Restart squid and test to see if you have access"
Restart squid and test to see if you have access
root@squid-s22:/etc/squid# echo "Make sure your browser is pointed to localhost:3128
and that you have an ssh tunnel that connects to your proxy"
Make sure your browser is pointed to localhost:3128 and that you have an ssh tunnel
that connects to your proxy
root@squid-s22:/etc/squid# █
```