

# SQUID 3.5 – прозрачный прокси

## Система:

```
uname -a  
11.1-RELEASE-p8 FreeBSD 11.1-RELEASE-p8 #0: root@amd64-  
builder.daemonology.net:/usr/obj/usr/src/sys/GENERIC amd64
```

## 1. Установка

```
portsnap fetch update  
portmaster www/squid
```

При выборе опций – мне хватило их по умолчанию, но, на всякий случай, проверяем такие:

В параметрах сборки проверяем, что включена поддержка прозрачного проксирования для используемого брандмауэра (IPFW) и поддержка больших файлов LARGEFILE, ECAP, SSL, SSL\_CRTD, а также, если необходима, модификация HTTP-заголовков (использование опций via, request\_header\_access), включаем LAX\_HTTP, для сборки Squid с параметром –enable-http-violations.

x x+ [ ] ESI ESI support

x x+ [x] EXAMPLES Build and/or install examples

x x+ [x] FOLLOW\_XFF Support for the X-Following-For header

x x+ [x] FS\_AUFS AUFS (threaded-io) support

x x+ [x] FS\_DISKD DISKD storage engine controlled by separate service

x x+ [x] FS\_ROCK ROCK storage engine

x x+ [x] HTCP HTCP support

x x+ [x] ICAP the ICAP client

x x+ [x] ICMP ICMP pinging and network measurement

x x+ [x] IDENT Ident lookups (RFC 931)

x x+ [x] IPV6 IPv6 protocol support

x x+ [x] KQUEUE Kqueue(2) support

x x+ [x] LARGEFILE Support large (>2GB) cache and log files

x x+ [x] LAX\_HTTP Do not enforce strict HTTP compliance

x x+ [ ] NETTLE Nettle MD5 algorithm support

x x+ [x] PCRE Use Perl Compatible Regular Expressions

x x+ [x] SNMP SNMP support

x x+ [x] SSL SSL gatewaying support

x x+ [x] SSL\_CRTD Use ssl\_crtd to handle SSL cert requests

x x+ [ ] STACKTRACES Enable automatic backtraces on fatal errors

x x+ [x] VIA\_DB Forward/Via database



## 2. Настройка

## Правим

/usr/local/etc/squid/squid.conf

```
#  
# Recommended minimum configuration:  
#
```

```
visible_hostname squid  
dns_nameservers 194.44.219.162 8.8.8.8
```

```
# Example rule allowing access from your local networks.
# Adapt to list your (internal) IP networks from where
# browsing
# should be allowed
#acl localnet src 10.0.0.0/8 # RFC1918 possible internal
#network
#acl localnet src 172.16.0.0/12 # RFC1918 possible internal
#network
acl localnet src 192.168.113.0/24 # RFC1918 possible internal
#network
#acl localnet src fc00::/7 # RFC 4193 local private network
#range
#acl localnet src fe80::/10 # RFC 4291 link-local (directly
plugged) machines
```

```
acl SSL_ports port 443
acl Safe_ports port 80 # http
acl Safe_ports port 21 # ftp
acl Safe_ports port 443 # https
acl Safe_ports port 70 # gopher
acl Safe_ports port 210 # wais
acl Safe_ports port 1025-65535 # unregistered ports
acl Safe_ports port 280 # http-mgmt
acl Safe_ports port 488 # gss-http
acl Safe_ports port 591 # filemaker
```

```
acl Safe_ports port 777 # multiling http
acl CONNECT method CONNECT

# Добавление в acl списков для users и urls/domain:
запрещенные, разрешенные
# и группа расширенного доступа (отключена)
acl denied_users src "/usr/local/etc/squid/denied_users"
acl denied_urls url_regex "/usr/local/etc/squid/denied_urls"
acl allowed_users src "/usr/local/etc/squid/allowed_users"
#acl          allowed_urls          url_regex
"/usr/local/etc/squid/allowed_urls"
#acl          extended_access_group      src
"/usr/local/etc/squid/extended_access_group"

# Deny requests to certain unsafe ports
http_access deny !Safe_ports

# Deny CONNECT to other than secure SSL ports
http_access deny CONNECT !SSL_ports

# Only allow cachemgr access from localhost
http_access allow localhost manager
http_access deny manager

## Разрешаем осуществлять коннект к ресурсу, если https
http_access allow localnet CONNECT

## Запрещаем всем доступ на запрещенные сайты
http_access deny denied_users denied_urls
http_access allow allowed_users

## Этим правилом разрешаем всем кто не в группе расширенного
доступа ходить только на
# разрешенные сайты
# http_access deny !extended_access_group !allowed_urls

http_access allow localnet
http_access allow localhost
http_access deny all

## Обязательно один из портов должен быть в таком виде и
```

являться заглушкой

**http\_port 3130**

```
http_port 3128 intercept
https_port 3129 intercept ssl-bump
options=ALL:NO_SSLv3:NO_SSLv2 connection-auth=off
cert=/usr/local/etc/squid/squidCA.pem
```

always\_direct allow all  
sslproxy\_cert\_error allow all  
sslproxy\_flags DONT\_VERIFY\_PEER

## Правила доступа для ssl

```
# правило со списком блокируемых ресурсов (в файле домены вида
.domain.com)
acl blocked ssl::server_name_regex
"/usr/local/etc/squid/denied_urls"
acl step1 at_step SslBump1
ssl_bump peek step1

# термируем соединение, если клиент заходит на запрещенный
ресурс
ssl_bump terminate blocked
ssl_bump splice all

sslcrtd_program /usr/lib/squid/ssl_crtd -s /var/lib/ssl_db -M
4MB

# Uncomment and adjust the following to add a disk cache
directory.
#cache_dir ufs /var/squid/cache 100 16 256

# Leave core dumps in the first cache dir
coredump_dir /var/squid/cache

refresh_pattern ^ftp: 1440 20% 10080
refresh_pattern ^gopher: 1440 0% 1440
refresh_pattern -i (/cgi-bin/|\?) 0 0% 0
refresh_pattern . 0 20% 4320
```

Создаем файлы:

```
touch /usr/local/etc/squid/denied_urls
cat /usr/local/etc/squid/denied_urls
.pornhub.com
.xxx.com
touch /usr/local/etc/squid/denied_users
cat /usr/local/etc/squid/denied_users
192.168.113.110 # менаджер dep
192.168.113.203 #

touch /usr/local/etc/squid/allowed_users
cat /usr/local/etc/squid/allowed_users
192.168.113.0/24 # вся сеть
touch /usr/local/etc/squid/extended_access_group
cat /usr/local/etc/squid/extended_access_group
192.168.0.12 # Masha
192.168.0.15 # Direktor
192.168.0.53 # Sasha
192.168.0.54 # My Note
```

Делаем сертификат

```
cd /usr/local/etc/squid/
openssl req -new -newkey rsa:1024 -days 365 -nodes -x509 -
keyout squidCA.pem -out squidCA.pem
```

Добавляем в /etc/rc.conf

```
squid_enable="YES"
```

Инициализируем кеш:

```
squid -z
```

Добавляем правила в IPFW

```
### LAN
${ipfw} add allow ip from any to any via ${lan}

### SQUID прозрачный
${ipfw} add fwd 127.0.0.1,3128 tcp from table\({0}\) to any 80
out via ${wan}
${ipfw} add fwd 127.0.0.1,3129 tcp from table\({0}\) to any 443
out via ${wan}
```

Перезапускаем IPFW и стартуем squid:

```
/etc/rc.d/ipfw restart  
service squid start
```

Проверяем.

<https://www.ew8bak.ru/2017/02/14/>

<https://wiki.squid-cache.org/ConfigExamples/Intercept/Ipfw>