

Squid 正向代理配置



一. 安装环境

软件名称	版本	下载地址
Squid	4.2.0	http://www.squid-cache.org/Versions/v4/squid-4.2.tar.gz

二. 软件安装

```
# 安装 Squid 软件

tar zxvf squid-4.2.tar.gz
cd squid-4.2
./configure --prefix=/usr/local/squid4 --disable-ipv6 --with-filedescriptors=4096
--with-aufs-threads=64 --enable-defaulterr-language="zh-cn" --with-large-files --enable-
epoll --enable-follow-xforwarded-for --with-openssl
make
make install

* squid -z 安装完后需要生成缓存目录方可正常执行

/usr/local/squid4/sbin/squid -z

mkdir /usr/local/squid4/cache
chmod 777 /usr/local/squid4/cache -Rf
chmod 777 /usr/local/squid4/var -Rf
```

三. Squid 配置

```
# 配置 Squid : /usr/local/squid4/etc/squid.conf

acl localnet src 10.0.0.0/8
acl localnet src 172.16.0.0/12
acl localnet src 192.168.0.0/16
acl localnet src fc00::/7
acl localnet src fe80::/10

acl SSL_ports port 443
acl Safe_ports port 80
acl Safe_ports port 21
acl Safe_ports port 443
acl Safe_ports port 70
acl Safe_ports port 210
acl Safe_ports port 1025-65535
acl Safe_ports port 280
acl Safe_ports port 488
acl Safe_ports port 591
acl Safe_ports port 777

acl purge method PURGE      -- 自定义请求类型 PURGE 供刷新缓存 (类似 POST|GET|PURGE|CONNECT)
acl CONNECT method CONNECT
acl conntype proto HTTP
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acl to_local_net dst 192.168.0.0/16 172.16.0.0/12 10.0.0.0/8

# 定义规则以 url 路径部份匹配 mail
acl deny_mail url_regex -i mail
acl allow_jsw url_regex -i jsw jsvest

# 定义规则以 域名 部份匹配
acl no_cache_list dstdomain .fundsmart.com.cn
acl site_black_list dstdomain .renren.com .youku.com www.baidu.com .taobao.com
acl site_white_list dstdomain .yihaodian.com .google.com .googleusercontent.com
.hibernate.org .vmware.com .cfainstitute.org

# 定义规则以 url 路径部份匹配
acl no_log1 urlpath_regex -i \.css \.js \.swf \.jpg \.png \.gif \.jsw
acl no_log2 http_status 200 206 304
acl no_log3 dstdomain .sinajs.cn .sinaimg.cn

# 定义规则以 url 路径部份匹配音频视频文件
acl download urlpath_regex -i \.hiv\?? \.flv\?? \.mp3\?? \.wma\?? \.avi\?? \.rmvb\??
\.rm\?? \.ram\?? \.smi\?? \.mp4\?? \.mkv\?? \.mpeg\?? \.mpg\?? \.ape\?? \.flac\??
\.ts\?? \.wmv\?? \.asf\?? \.mov\?? \.vob\?? \.iso\?? \.mds\?? \.pmp\??

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

# 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

#http_access allow SSL_ports site_white_list
#http_access deny SSL_ports

# 先放过作为白名单, squid 匹配到便不再匹配下一条
http_access allow site_white_list
http_access allow to_local_net

# And finally deny all other access to this proxy
# 使前面定义的禁止访问的规则生效
http_access deny site_black_list
http_access deny download
http_access deny deny_mail !allow_jsw -- Squid 对双规则取交集
http_access deny !conntype -- Squid 对! 取反

# 允许合法的访问
http_access allow localhost

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http_access allow localnet
http_access allow all

# Squid normally listens to port 3128
http_port 3128 -- 监听端口 3128
cache_mem 4096 MB -- 分配内存 1G
memory_pools on -- 启用预分配
memory_pools_limit 128 MB -- 预分配内存上限

max_filedescriptors 65535
max_open_disk_fds 0
cpu_affinity_map process_numbers=1 cores=4 -- CPU

maximum_object_size_in_memory 2048 KB -- 存储于内存最大 object 尺寸
reply_body_max_size 20 MB !localnet -- 最大下载尺寸为 20M , 规则适用是于非 localnet
request_body_max_size 20 MB -- 最大上传尺寸为 10M
maximum_object_size 20480 KB -- 最大存储于文件系统的尺寸为 10M

# We recommend you to use at least the following line.
hierarchy_stoplist cgi-bin ?

#
# lru : Squid's original list based LRU policy
# heap GDSF : Greedy-Dual Size Frequency
# heap LFUDA : Least Frequently Used with Dynamic Aging
# heap LRU : LRU policy implemented using a heap
#
memory_replacement_policy lru -- 内存刷新策略为 lru
cache_replacement_policy heap LRU -- 磁盘刷新策略为 heap lru

# Uncomment and adjust the following to add a disk cache directory.
# 文件系统存储目录 10G 空间 , 第一级 16 目录, 每一个一级目录下面 256 个二级目录
# cache_dir aufs /opt/cache 10240 16 256 read-only -- 切换缓存目录时可设置旧目录 readonly
cache_dir aufs /usr/local/squid4/var/cache 10240 16 256

# Leave coredumps in the first cache dir
coredump_dir /usr/local/squid4/var/cache/squid

# Add any of your own refresh_pattern entries above these.
/*
* refresh_pattern 用于设定刷新机制配置, 以下为配置可以强制缓存
* refresh_pattern . 0 0 20% 4320 override-expire override-lastmod reload-into-ims
* ignore-reload ignore-no-cache ignore-private
* /
refresh_pattern ^ftp: 1440 20% 10080
refresh_pattern ^gopher: 1440 0% 1440
refresh_pattern -i (/cgi-bin/|\?) 0 0% 0

refresh_pattern -i \.css$ 20 50% 120
refresh_pattern -i \.htm$ 20 90% 120 ignore-reload
refresh_pattern -i \.html$ 20 90% 120 ignore-reload
refresh_pattern -i \.jpg$ 20 90% 120 ignore-reload reload-into-ims
refresh_pattern -i \.png$ 20 90% 120 ignore-reload

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refresh_pattern -i \.gif$      20      90% 120 ignore-reload
refresh_pattern -i \.js$       20      90% 120 ignore-reload
refresh_pattern -i \.swf$      20      90% 120 ignore-reload
refresh_pattern google.com.hk 1440   90% 129600 ignore-no-cache ignore-reload ignore-
private ignore-no-store override-expire override-lastmod reload-into-ims
refresh_pattern .              0       20% 4320

# 日志格式使用 squid
# logformat squid %ts.%03tu %6tr %>a %Ss/%03>Hs %<st %rm %ru %un %Sh/%<A %mt
logformat squid %ts.%03tu %6tr %{X-Forwarded-For}>h %Ss/%03>Hs %<st %rm %ru %un %Sh/%<A
%mt

# 只记录 非 no_log 的日志
access_log /usr/local/squid4/var/logs/access.log squid !no_log1 !no_log2 !no_log3
cache_log /dev/null -- 不记录缓存日志
no_cache deny no_cache_list -- 设置不记入缓存

forwarded_for on
visible_hostname "JSVest Proxy Server"
cache_mgr 360565687@qq.com -- 管理员信息

```

四. Squid 操作

启动	/usr/local/squid4/sbin/squid
生成 squid 目录缓存结构	/usr/local/squid4/sbin/squid -z
关闭	/usr/local/squid4/sbin/squid -k shutdown
重载	/usr/local/squid4/sbin/squid -k reconfigure
日志翻滚	/usr/local/squid4/sbin/squid -k rotate
查看管理信息	/usr/local/squid4/bin/squidclient -p 3128 mgr:info
查看内存信息	/usr/local/squid4/bin/squidclient -p 3128 mgr:mem
查看缓存信息	/usr/local/squid4/bin/squidclient -p 3128 mgr:object
查看磁盘信息	/usr/local/squid4/bin/squidclient -p 3128 mgr:diskd
强制更新	/usr/local/squid4/bin/squidclient -m PURGE http://www.a.com/a.php