

Langkah-Langkah Install Dan Konfigurasi Proxy Squid 3 Pada Ubuntu Server 12.04

By Yohanes Sukamdi, S. Kom

Squid adalah aplikasi populer yang digunakan sebagai server cache proxy web yang menyediakan layanan proxy dan cache untuk HTTP, HTTPS, FTP, gopher dan protokol jaringan populer. Squid dapat mengimplementasikan caching Domain Name Server (DNS) lookup dan cache dan proxy Secure Socket Layer (SSL), dan melakukan caching secara transparan, Squid juga mendukung berbagai macam protokol caching, seperti Internet Cache Protocol (ICP), Hypertext Cache Protocol (HTCP), Cache Array Routing Protocol (CARP), dan Web Cache Coordination Protocol (WCCP).

Proxy Squid cache server adalah solusi yang sangat baik untuk berbagai kebutuhan caching proxy dan server, dan skala dari kantor cabang ke jaringan tingkat perusahaan. Ketika memilih sebuah sistem komputer untuk digunakan khusus sebagai proxy squid, atau caching server, pastikanlah sistem Anda dikonfigurasi dengan sejumlah besar memori fisik untuk meningkatkan kinerjanya.

Tutorial berikut akan mendemonstrasikan cara install dan konfigurasi server proxy dengan SQUID3 pada ubuntu server 12.04

Langkah 1: Install Squid 3

Login ke server ubuntu, dan ketik perintah berikut untuk meng-install squid3 pada ubuntu server 12.04:

```
sudo apt-get install squid3
```

kemudian masukkan password anda, dan tunggu hingga proses install selesai.

Langkah 2: Konfigurasi Squid 3

Buat folder untuk menyimpan cache misalnya pada /home/cache, kemudian set permission menjadi 777 dengan owner proxy:proxy

```
sudo mkdir -p /home/cache/
```

```
sudo chmod 777 /home/cache/
```

```
sudo chown proxy:proxy /home/cache/
```

Sebelum mengubah konfigurasi squid, buatlah backupnya lebih dahulu file /etc/squid3/squid.conf untuk referensi dikemudian hari.

```
sudo cp /etc/squid3/squid.conf /etc/squid3/squid.conf.origin
```

```
sudo chmod a-w /etc/squid3/squid.conf.origin
```

Sekarang edit file /etc/squid3/squid.conf, hapus dan ganti semua option dengan konfigurasi squid3 dengan perintah berikut :

```
sudo nano /etc/squid3/squid.conf
```

Konfigurasi squid3:

```
# ACCESS CONTROLS OPTIONS
```

```
# =====
```

```
#
```

```
#acl QUERY berikut saya buat comment karena error saat penulis coba
```

```
#acl QUERY urlpath_regex -i cgi-bin ? .php$ .asp$ .shtml$ .cfm$ .cfml$ .phtml$ .php3$ localhost
```

```
acl all src
```

```
acl localnet src 10.0.0.0/8
```

```
# Your network here
```

```
acl localnet src 192.168.1.0/24
```

```
#
```

```
acl localhost src 127.0.0.1/32
```

```
acl safeports port 21 70 80 210 280 443 488 563 591 631 777 901 81 3128 1025-65535
```

```
acl sslports port 443 563 81 2087 10000
```

```
acl manager proto cache_object
```

```
acl purge method PURGE
```

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```

acl connect method CONNECT
acl ym dstdomain .messenger.yahoo.com .psq.yahoo.com
acl ym dstdomain .us.il.yimg.com .msg.yahoo.com .pager.yahoo.com
acl ym dstdomain .rareedge.com .ytunnelpro.com .chat.yahoo.com
acl ym dstdomain .voice.yahoo.com
acl ymregex url_regex yupdater.yim ymsgr myspaceim
#
http_access deny ym
http_access deny ymregex
http_access allow manager localhost
http_access deny manager
http_access allow purge localhost
http_access deny purge
http_access deny !safeports
http_access deny CONNECT !sslports
http_access allow localhost
http_access allow localnet
http_access deny all
#
# NETWORK OPTIONS
# -----
#
http_port 3128 transparent
#
# OPTIONS WHICH AFFECT THE CACHE SIZE
# =====
#
cache_mem 16 MB
maximum_object_size_in_memory 32 KB
memory_replacement_policy heap GDSF
cache_replacement_policy heap LFUDA
cache_dir aufs /home/cache 10000 14 256
maximum_object_size 128000 KB
cache_swap_low 95
cache_swap_high 99
#
# LOGFILE PATHNAMES AND CACHE DIRECTORIES
# =====
#
access_log /var/log/squid3/access.log
cache_log /var/lod/squid3/cache.log
#cache_log /dev/null
cache_store_log none
logfile_rotate 5
log_icp_queries off
#
# OPTIONS FOR TUNING THE CACHE
# =====
#
#cache deny QUERY
#cache deny QUERY di-comment karena error saat penulis coba

refresh_pattern ^ftp: 1440 20% 10080 reload-into-ims
refresh_pattern ^gopher: 1440 0% 1440
refresh_pattern -i (.gif|png|jp?g|ico|bmp|tiff?)$ 10080 95% 43200 override-expire
override-lastmod reload-into-ims ignore-no-cache ignore-private
refresh_pattern -i
.(rpm|cab|deb|exe|msi|msu|zip|tar|xz|bz|bz2|lzma|gz|tgz|rar|bin|7z|doc?|xls?|ppt?|
pdf|nth|psd|sis)$ 10080 90% 43200 override-expire override-lastmod reload-into-ims
ignore-no-cache ignore-private
refresh_pattern -i (.avi|iso|wav|mid|mp?|mpeg|mov|3gp|wm?|swf|flv|x-flv|axd)$
43200 95% 432000 override-expire override-lastmod reload-into-ims ignore-no-cache
ignore-private
refresh_pattern -i (.html|htm|css|js)$ 1440 75% 40320

```

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```

refresh_pattern -i .index.(html|htm)$ 0 75% 10080
refresh_pattern -i (/cgi-bin/|?) 0 0% 0
refresh_pattern . 1440 90% 10080
#
quick_abort_min 0 KB
quick_abort_max 0 KB
quick_abort_pct 100
store_avg_object_size 13 KB
#
# HTTP OPTIONS
# =====
vary_ignore_expire on
#
# ANONIMITY OPTIONS
# =====
#
request_header_access From deny all
request_header_access Server deny all
request_header_access Link deny all
request_header_access Via deny all
request_header_access X-Forwarded-For deny all
#
# TIMEOUTS
# =====
#
forward_timeout 240 second
connect_timeout 30 second
peer_connect_timeout 5 second
read_timeout 600 second
request_timeout 60 second
shutdown_lifetime 10 second
#
# ADMINISTRATIVE PARAMETERS
# =====
#
cache_mgr webmaster
cache_effective_user proxy
cache_effective_group proxy
httpd_suppress_version_string on
visible_hostname proxy
#
ftp_list_width 32
ftp_passive on
ftp_sanitycheck on
#
# DNS OPTIONS
# =====
#
dns_timeout 10 seconds
dns_nameservers 192.168.1.1 #DNS lokal jika ada
dns_nameservers 8.8.8.8 203.130.208.18 # DNS Server

#
# MISCELLANEOUS
# =====
#
memory_pools off
client_db off
reload_into_ims on
#coredump_dir /cache
coredump_dir /home/cache
pipeline_prefetch on
offline_mode off

```

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```
#
#Marking ZPH
#=====
#zph_mode tos
#zph_local 0x30
#zph_parent 0
#zph_option 136
qos_flows tos
qos_flows local-hit = 0x30
qos_flows parent-hit = 0
### END CONFIGURATION ###
```

Langkah 3: Jalankan Squid3

Pertama, buat direktori swap,

```
sudo squid3 -z
```

Restart squid3:

```
sudo /etc/init.d/squid3 restart
```

atau

```
sudo service squid3 restart
```

Masukkan squid3 sebagai service yang otomatis running saat booting

```
sudo chkconfig --level 345 squid3 on
```

Selamat ya.... semoga tidak bosan2 dengan coding seperti ini

Cara Menginstal dan Konfigurasi LUSCA sebagai Proxy Server di Ubuntu Server 12.04

By Yohanes Sukamdi, S. Kom

SERVER PROXY adalah server yang (sistem komputer atau aplikasi) yang bertindak sebagai perantara permintaan dari klien mencari sumber daya dari server lain. Seorang klien terhubung ke server proxy, meminta beberapa layanan, seperti file, koneksi, halaman web, atau sumber daya lain yang tersedia dari server yang berbeda dan server proxy mengevaluasi permintaan sebagai cara untuk menyederhanakan dan mengontrol kompleksitasnya. Proxy diciptakan untuk menambah struktur dan enkapsulasi untuk sistem terdistribusi. Saat ini, kebanyakan proxy adalah proxy web, memfasilitasi akses ke konten di World Wide Web dan menyediakan anonimitas.



Manfaat Proxy Server

Secara umum manfaat proxy server ada dua macam, yaitu sebagai berikut:

1. Meningkatkan kinerja jaringan

Dengan kemampuan server proxy untuk menyimpan data permintaan dari aplikasi client, permintaan yang sama dengan permintaan sebelumnya hanya akan diambilkan dari simpanan server proxy. Jika seorang pengguna internet sudah pernah membuka situs yang sama, tidak perlu dihubungkan langsung pada situs sumbernya, tetapi cukup diambilkan dari simpanan server proxy. Dengan cara demikian, koneksi langsung pada server sumbernya dapat dikurangi. Dengan demikian, penggunaan bandwidth internet untuk koneksi langsung menjadi berkurang.

2. Filter permintaan

Server proxy juga dapat digunakan sebagai filter terhadap permintaan data dari suatu situs. Dalam hal ini, server proxy menjadi filter terhadap situs yang boleh atau tidak boleh dikunjungi. Selain itu, server proxy juga dapat sebagai filter terhadap aplikasi client yang dapat menggunakan akses terhadap internet. Dalam hal ini server proxy berlaku sebagai filter terhadap gangguan internet.

Fungsi Proxy Server

Proxy Server merupakan pihak ketiga yang menjadi perantara antara kedua pihak yang saling berhubungan, dalam hal ini adalah jaringan lokal dan jaringan internet. Secara prinsip pihak pertama dan pihak kedua tidak langsung berhubungan, akan tetapi masing-masing berhubungan dengan pihak ketiga yaitu proxy.

Tiga fungsi utama proxy server adalah:

1. Connection sharing

Bertindak sebagai gateway yang menjadi batas antara jaringan lokal dan jaringan luar. Gateway juga bertindak sebagai titik dimana sejumlah koneksi dari pengguna lokal akan terhubung kepadanya dan koneksi jaringan luar juga terhubung kepadanya. Dengan demikian koneksi dari jaringan lokal ke internet akan menggunakan sambungan yang dimiliki oleh gateway secara bersama-sama (connection sharing).

2. Filtering

Bekerja pada layar aplikasi sehingga berfungsi sebagai Firewalll paket filtering yang digunakan untuk melindungi jaringan lokal terhadap gangguan atau serangan dari jaringan luar. Dapat dikonfigurasi untuk menolak situs web tertentu pada waktu-waktu tertentu.

3. Caching

Proxy Server memiliki mekanisme penyimpanan obyek-obyek yang sudah diminta dari server-server di internet. Mekanisme caching akan menyimpan obyek-obyek yang merupakan permintaan dari para pengguna yang di dapat dari iternet.

Keuntungan Proxy Server

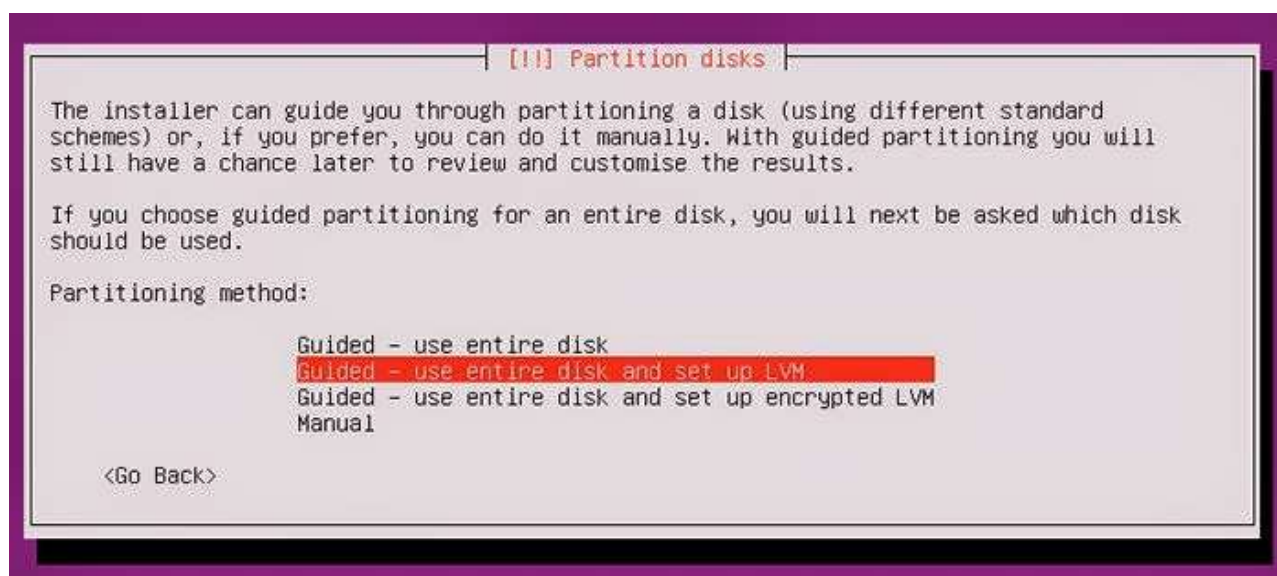
Keuntungan proxy server dalam suatu jaringan TCP/IP adalah:

1. Keamanan jaringan lebih terjaga, karena adanya proxy sebagai pembatas antara jaringan lokal dan jaringan luar (internet)
2. Pengaksesan kembali terhadap situs-situs yang telah diakses sebelumnya menjadi lebih cepat, karena pengaksesan tidak perlu ke jaringan luar (internet) melainkan ada pada direktori cache proxy.
3. Terdapat fasilitas filtering, baik filtering pengguna, content dan waktu akses.

Kekurangan Proxy Server

Kekurangan proxy server dalam suatu jaringan TCP/IP adalah:

1. Pengaksesan terhadap situs yang belum pernah dibuka sebelumnya akan menjadi lebih lambat, karena client harus meminta terlebih dahulu ke pada proxy, setelah itu baru proxy yang akan meminta request dari client tersebut ke pada penyedia layanan internet.
 2. Bila proxy server terlambat melakukan update cache, maka client akan mendapatkan content yang belum update ketika melakukan request content tersebut.
-
1. Kita install dulu server nya menggunakan OS ubuntu 12.04 server
Tutorialnya install nya bisa baca di http://www.server-world.info/en/note?os=Ubuntu_12.04&p=install
Yang beda cuma partisi nya menggunakan manual karena server akan digunakan sebagai proxy
 2. Partisinya menggunakan manual saja.



3. Kemudian partisinya di isi dibawah ini , **penting** partisi dibawah ini disesuaikan dengan ukuran hardisk pc anda kalau yang menggunakan partisi dibawah ini ukuran hardisk nya - + 240-250 GB.

Type	Size	Location	FileSystem	Mount
Primary	30 GB	Beginning	ext4	/
Primary	500 MB	Beginning	ext4	/boot
Primary	8192 MB	Beginning	swap	swap
Logical	25 GB	End	btrfs	/cache-1
Logical	25 GB	End	btrfs	/cache-2
Logical	25 GB	End	btrfs	/cache-3
Logical	25 GB	End	btrfs	/cache-4
Logical	25 GB	End	btrfs	/cache-5
Logical	46 GB	End	ext4	/home
Logical	5 GB	End	ext4	/opt
Logical	5 GB	End	ext4	/srv
Logical	5 GB	End	ext4	/tmp
Logical	5 GB	End	ext4	/usr
Logical	5 GB	End	ext4	/usr/local

4. Hal hal yang harus dilakukan setelah install ubuntu server 12.04

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kita bisa melakukan konfigurasi dengan cara diremote servernya syaratnya satu jaringan , remote nya menggunakan ssh, caranya:

ssh proxy[hostname computer]@ip server anda masukan sandi server anda
lalu enter anda sudah masuk ke system nya server ,Misal

ssh proxy@192.168.12.38

untuk ubuntu 12.04 server kalau login belum masuk root, anda harus masuk root dulu

sudo su

masukan password server

#hostname dan hostname -f nya harus sama

cara ngecek nya

hostname

proxy

hostname -f

proxy

arahkan repository

nano /etc/apt/sources.list

Misalnya saya arah kan repository nya ke kambing :

deb http://kambing.ui.ac.id/ubuntu/ precise main restricted
deb-src http://kambing.ui.ac.id/ubuntu/ precise main restricted

deb http://kambing.ui.ac.id/ubuntu/ precise universe
deb-src http://kambing.ui.ac.id/ubuntu/ precise universe

deb http://kambing.ui.ac.id/ubuntu/ precise multiverse
deb-src http://kambing.ui.ac.id/ubuntu/ precise multiverse
deb http://security.ubuntu.com/ubuntu precise-security main restricted
deb-src http://security.ubuntu.com/ubuntu precise-security main restricted
deb http://security.ubuntu.com/ubuntu precise-security universe
deb-src http://security.ubuntu.com/ubuntu precise-security universe

update dan upgrade

untuk ubuntu server kita login belum masuk root
anda masuk dulu sebagai root

apt-get update && dist-upgrade -y

langkah ini akan memakan waktu lama karena akan mendownload dan memasang paket paket yang dibutuhkan pc anda, waktu nya tergantung dengan kecepatan bandwite anda.

5. kita install paket lusca untuk konfigurasi proxynya

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```
apt-get install lusca squidclient squid-cgi ccze
```

6. Pindah konfigurasi awal lusca

```
mv /etc/lusca/squid.conf /etc/lusca/squid.conf.original
```

7. Buat konfigurasi lusca baru

```
touch /etc/lusca/squid.conf
```

```
nano /etc/lusca/squid.conf
```

Tambah kan baris baris berikut:

```
#=====
# Port and Transparent
#=====
http_port 3128 transparent
server_http11 on
icp_port 0
#=====
# Lusca Cache Directory
#=====
cache_dir aufs /cache-1/ 25000 15 256
cache_dir aufs /cache-2/ 25000 15 256
cache_dir aufs /cache-3/ 25000 15 256
cache_dir aufs /cache-4/ 25000 15 256
cache_dir aufs /cache-5/ 25000 15 256
cache_replacement_policy heap LFUDA
memory_replacement_policy heap LFUDA
#=====
# Lusca Log Options
#=====
emulate_httpd_log on
logformat squid %tl %6tr %>a %Ss/%03Hs %<st %rm %ru %un %Sh/%<A %mt
log_fqdn off
logfile_rotate 14
debug_options ALL,1
cache_access_log /var/log/lusca/access.log
cache_log /var/log/lusca/cache.log
cache_store_log /var/log/lusca/store.log
#=====
# DNS and FTP option
#=====
#I used DNSAMSQ service for fast dns resolving
#so install by using "apt-get install dnsmasq" first
dns_nameservers 192.168.4.1 127.0.0.1 221.132.112.8
ftp_user anonymous@
ftp_list_width 32
ftp_passive on
ftp_sanitycheck on
#=====
# Access Control List (ACL) Option
```

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```
#=====
acl all src 0.0.0.0/0.0.0.0
acl manager proto cache_object
acl localhost src 127.0.0.1/255.255.255.255
acl localnet src 192.168.88.0/24
acl to_localhost dst 127.0.0.0/8
acl SSL_ports port 443 563 # https, snews
acl SSL_ports port 873 # rsync
acl Safe_ports port 80 # http
acl Safe_ports port 21 # ftp
acl Safe_ports port 443 563 # https, snews
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 Safe_ports port 631 # cups
acl Safe_ports port 873 # rsync
acl Safe_ports port 901 # SWAT
acl purge method PURGE
acl CONNECT method CONNECT
http_access allow manager localhost
http_access deny manager
http_access allow purge localhost
http_access deny purge
http_access deny !Safe_ports
http_access deny CONNECT !SSL_ports
http_access allow localhost
http_access allow localnet
http_access allow all
http_reply_access allow all
icp_access allow all
#=====
# Administrative Parameters
#=====
# I used Ubuntu Server so user and group is proxy
cache_effective_user proxy
cache_effective_group proxy
cache_mgr ubuntucontrib@gmail.com
visible_hostname proxy.precise.net
unique_hostname ubuntucontrib@gmail.com
#=====
# Accelerator Options
#=====
half_closed_clients off
quick_abort_min 0 KB
quick_abort_max 0 KB
vary_ignore_expire on
```

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```

reload_into_ims on
log_fqdn off
memory_pools off
cache_swap_low 98
cache_swap_high 99
max_filedescriptors 65536
fqdn_cache_size 16384
retry_on_error on
offline_mode off
pipeline_prefetch on
# If you want to hide your proxy machine from being detected at various site use following
via off
#=====
# Options Which Affect The Cache Size
#=====
# If you have 4GB memory in Squid box, we will use formula of 1/3
# You can adjust it according to your need. IF squid is taking too much of RAM
# Then decrease it to 128 MB or even less.
cache_mem 8 MB
minimum_object_size 0 bytes
maximum_object_size 100 MB
maximum_object_size_in_memory 128 KB
#=====
# SNMP , if you want to generate graphs for -
# SQUID via MRTG
#=====
#acl snmppublic snmp_community gl
#snmp_port 3401
#snmp_access allow snmppublic all
#snmp_access allow all
#=====
# ZPH Option
#=====
tcp_outgoing_tos 0x30 all
zph_mode tos
zph_local 0x30
zph_parent 0
zph_option 136
#=====
# ACL Caching Youtube
#=====
acl videocache_allow_url url_regex -i \.youtube\.com\get_video\?
acl videocache_allow_url url_regex -i \.youtube\.com\videoplayback \.youtube\.com\videoplay
\.youtube\.com\get_video\?
acl videocache_allow_url url_regex -i \.youtube\.[a-z][a-z]\videoplayback \.youtube\.[a-z][a-z]\videoplay
\.youtube\.[a-z][a-z]\get_video\?
acl videocache_allow_url url_regex -i \.googlevideo\.com\videoplayback \.googlevideo\.com\videoplay
\.googlevideo\.com\get_video\?
acl videocache_allow_url url_regex -i \.google\.com\videoplayback \.google\.com\videoplay
\.google\.com\get_video\?

```

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```

acl videocache_allow_url url_regex -i \.google\.[a-z][a-z]\videoplayback \.google\.[a-z][a-z]\videoplay
\.google\.[a-z][a-z]\get_video\?
acl videocache_allow_url url_regex -i proxy[a-z0-9\-\_][a-z0-9][a-z0-9][a-z0-9]\.dailymotion\.com\
acl videocache_allow_url url_regex -i vid\.akm\.dailymotion\.com\
acl videocache_allow_url url_regex -i [a-z0-9][0-9a-z][0-9a-z]?[0-9a-z]?[0-9a-z]?\.xtube\.com\(.*)flv
acl videocache_allow_url url_regex -i \.vimeo\.com\(.*)\.(flv|mp4)
acl videocache_allow_url url_regex -i va\.wrzuta\.pl\wa[0-9][0-9][0-9][0-9]?
acl videocache_allow_url url_regex -i \.youporn\.com\(.*)\.flv
acl videocache_allow_url url_regex -i \.msn\.com\.edgesuite\.net\(.*)\.flv
acl videocache_allow_url url_regex -i \.tube8\.com\(.*)\.(flv|3gp)
acl videocache_allow_url url_regex -i \.mais\.uol\.com\.br\(.*)\.flv
acl videocache_allow_url url_regex -i \.blip\.tv\(.*)\.(flv|avi|mov|mp3|m4v|mp4|wmv|rm|ram|m4v)
acl videocache_allow_url url_regex -i \.apniisp\.com\(.*)\.(flv|avi|mov|mp3|m4v|mp4|wmv|rm|ram|m4v)
acl videocache_allow_url url_regex -i \.break\.com\(.*)\.(flv|mp4)
acl videocache_allow_url url_regex -i redtube\.com\(.*)\.flv
acl videocache_allow_dom dstdomain .mccont.com .metacafe.com .cdn.dailymotion.com
acl videocache_deny_dom dstdomain .download.youporn.com .static.blip.tv
acl dontrewrite url_regex redbot\.org \.php
acl getmethod method GET
storeurl_access deny dontrewrite
storeurl_access deny !getmethod
storeurl_access deny videocache_deny_dom
storeurl_access allow videocache_allow_url
storeurl_access allow videocache_allow_dom
storeurl_access deny all
storeurl_rewrite_program /etc/squid/storeurl.pl
storeurl_rewrite_children 7
storeurl_rewrite_concurrency 100
acl store_rewrite_list urlpath_regex -i \/(get_video\?|videodownload\?|videoplayback.*id)
acl store_rewrite_list urlpath_regex -i \.flv$ \.mp3$ \.mp4$ \.swf$ \
storeurl_access allow store_rewrite_list
storeurl_access deny all
#=====
# Refresh Pattern Options
#=====
refresh_pattern -i \.flv$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload
ignore-no-cache ignore-private ignore-auth
refresh_pattern -i \.mp3$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload
ignore-no-cache ignore-private ignore-auth
refresh_pattern -i \.mp4$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload
ignore-no-cache ignore-private ignore-auth
refresh_pattern -i \.swf$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload
ignore-no-cache ignore-private ignore-auth
refresh_pattern -i \.gif$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload
ignore-no-cache ignore-private ignore-auth
refresh_pattern -i \.jpg$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload
ignore-no-cache ignore-private ignore-auth
refresh_pattern -i \.jpeg$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload
ignore-no-cache ignore-private ignore-auth
refresh_pattern -i \.exe$ 10080 80% 10080 override-expire override-lastmod reload-into-ims ignore-reload

```

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```

ignore-no-cache ignore-private ignore-auth
# 1 year = 525600 mins, 1 month = 10080 mins, 1 day = 1440
refresh_pattern (get_video\?|videoplayback\?|videodownload\?|\.flv?) 10080 80% 10080 ignore-no-cache
ignore-private override-expire override-lastmod reload-into-ims
refresh_pattern (get_video\?|videoplayback\?|id|videoplayback.*id|videodownload\?|\.flv?) 10080 80%
10080 ignore-no-cache ignore-private override-expire override-lastmod reload-into-ims
refresh_pattern \.(ico|video-stats) 10080 80% 10080 override-expire ignore-reload ignore-no-cache ignore-
private ignore-auth override-lastmod negative-ttl=10080
refresh_pattern \.etology\? 10080 80% 10080 override-expire ignore-reload ignore-no-cache
refresh_pattern galleries\.video(\?|sz) 10080 80% 10080 override-expire ignore-reload ignore-no-cache
refresh_pattern brazzers\? 10080 80% 10080 override-expire ignore-reload ignore-no-cache
refresh_pattern \.adtology\? 10080 80% 10080 override-expire ignore-reload ignore-no-cache
refresh_pattern
^.*(utm\.gif|ads\?|rmxads\.com|ad\.z5x\.net|bh\.contextweb\.com|bstats\.adbrite\.com|a1\.interclick\.co
m|ad\.trafficmp\.com|ads\.cubics\.com|ad\.xtendmedia\.com|\.googlesyndication\.com|advertising\.com|y
ieldmanager|game-
advertising\.com|pixel\.quantserve\.com|adperium\.com|doubleclick\.net|adserving\.cpxinteractive\.com|s
yndication\.com|media.fastclick.net).* 10080 20% 10080 ignore-no-cache ignore-private override-expire
ignore-reload ignore-auth negative-ttl=40320 max-stale=10
refresh_pattern ^.*safebrowsing.*google 10080 80% 10080 override-expire ignore-reload ignore-no-cache
ignore-private ignore-auth negative-ttl=10080
refresh_pattern ^http://((cbk|mt|khm|mlt)[0-9]?)\.google\.co(m|\.uk) 10080 80% 10080 override-expire
ignore-reload ignore-private negative-ttl=10080
refresh_pattern ytimg\.com.*\.jpg 10080 80% 10080 override-expire ignore-reload
refresh_pattern images\.friendster\.com.*\.(png|gif) 10080 80% 10080 override-expire ignore-reload
refresh_pattern garena\.com 10080 80% 10080 override-expire reload-into-ims
refresh_pattern photobucket.*\.(jp(e?g|e|2)|tiff?|bmp|gif|png) 10080 80% 10080 override-expire ignore-
reload
refresh_pattern vid\.akm\.dailymotion\.com.*\.on2\? 10080 80% 10080 ignore-no-cache override-expire
override-lastmod
refresh_pattern mediafire.com/images.*\.(jp(e?g|e|2)|tiff?|bmp|gif|png) 10080 80% 10080 reload-into-ims
override-expire ignore-private
refresh_pattern ^http://images|pics|thumbs[0-9]\. 10080 80% 10080 reload-into-ims ignore-no-cache
ignore-reload override-expire
refresh_pattern ^http://www.onemanga.com.*\ 10080 80% 10080 reload-into-ims ignore-no-cache ignore-
reload override-expire
refresh_pattern ^http://v\.okezone\.com/get_video/([a-zA-Z0-9]) 10080 80% 10080 override-expire ignore-
reload ignore-no-cache ignore-private ignore-auth override-lastmod negative-ttl=10080
# Images Facebook
refresh_pattern -i \.facebook.com.*\.(jpg|png|gif) 10080 80% 10080 ignore-reload override-expire ignore-no-
cache
refresh_pattern -i \.fbcdn.net.*\.(jpg|gif|png|swf|mp3) 10080 80% 10080 ignore-reload override-expire
ignore-no-cache
refresh_pattern static\.ak\.fbcdn\.net.*\.(jpg|gif|png) 10080 80% 10080 ignore-reload override-expire ignore-
no-cache
refresh_pattern ^http://profile\.ak\.fbcdn.net.*\.(jpg|gif|png) 10080 80% 10080 ignore-reload override-
expire ignore-no-cache
# All File
refresh_pattern -i \.(3gp|7z|ace|asx|bin|deb|divx|dvr-ms|ram|rpm|exe|inc|cab|qt) 10080 80% 10080
ignore-no-cache override-expire override-lastmod reload-into-ims

```

Langkah Install Dan Konfigurasi proxy=yohanessukamdi

```
refresh_pattern -i \.(rar|jar|gz|tgz|bz2|iso|m1v|m2(v|p)|mo(d|v)|arj|lha|lzh|zip|tar) 10080 80% 10080
ignore-no-cache override-expire override-lastmod reload-into-ims
refresh_pattern -i \.(jp(e?g|e|2)|gif|pn[pg]|bm?|tiff?|ico|swf|dat|ad|txt|dll) 10080 80% 10080 ignore-no-
cache override-expire override-lastmod reload-into-ims
refresh_pattern -i \.(avi|ac4|mp(e?g|a|e|1|2|3|4)|mk(a|v)|ms(i|u|p)|og(x|v|a|g)|rm|r(a|p)m|snd|vob)
10080 80% 10080 ignore-no-cache override-expire override-lastmod reload-into-ims
refresh_pattern -i \.(pp(t?x)|s|t)|pdf|rtf|wax|wm(a|v)|wmx|wpl|cb(r|z|t)|xl(s?x)|do(c?x)|flv|x-flv) 10080
80% 10080 ignore-no-cache override-expire override-lastmod reload-into-ims
refresh_pattern -i (/cgi-bin/|\?) 0 0% 0
refresh_pattern ^gopher: 1440 0% 1440
refresh_pattern ^ftp: 10080 95% 10080 override-lastmod reload-into-ims
refresh_pattern . 1440 95% 10080 override-lastmod reload-into-ims
```

```
#=====
```

Edit perintah yang bercetak tebal diatas sesuai kebutuhan anda

```
dns_nameservers 192.168.4.1 127.0.0.1 221.132.112.8
```

Misalnya diedit seperti dibawah ini :

```
dns_nameservers 192.168.40.1 127.0.0.1 8.8.8.8
```

Maksud nya : # 192.168.40.1 : gateway mikrotix

127.0.0.1 : localhost

#8.8.8.8 : dns google

Edit localnet alamat ip yang bisa dibaca oleh proxy.

```
acl localnet src 192.168.40.0/24
```

Maksudnya : # /24 berarti Jumlah Ip nya 254

syaratnya harus satu subnet dengan dns nameserver tadi.

8. Beri hak akses pada configura squid.conf

```
chown proxy:proxy /etc/lusca/squid.conf
```

9. Buat konfigurasi storeurl.pl

```
mkdir /etc/squid/
```

```
touch /etc/squid/storeurl.pl
```

```
nano /etc/squid/storeurl.pl
```

Tambah kan baris baris berikut:

```
#!/usr/bin/perl
```

```
# =====
```

```
# $Rev$
```

```
# by chudy_fernandez@yahoo.com
```

```
# Updates at http://wiki.squid-cache.org/ConfigExamples/DynamicContent/YouTube/Discussion
```

```
# =====
```

```
$|=1;
```

```
while (<>) {
```

Langkah Install Dan Konfigurasi proxy=yohanessukamdi

```

@X = split;
# $X[1] =~ s/&sig=.*/;;
$x = $X[0] . " ";
$_ = $X[1];
$u = $X[1];
# =====
# Speedtest
# =====
# if (m/^http:\V\/(.*)\speedtest\/(.*(.jpg|txt))\?(.*)/) {
# print $x . "http://www.speedtest.net.SQUIDINTERNAL/speedtest/" . $2 . "\n";
# =====
# Mediafire
# =====
# } elseif
if (m/^http:\V\/199\91\15\d\.\d*\V{12}\V(\w*)\V(.*)/) {
print $x . "http://www.mediafire.com.SQUIDINTERNAL/" . $1 . "/" . $2 . "\n";
# =====
# Fileserve
# =====
} elseif (m/^http:\V\/fs\w*\fileserve\.com\file\(\w*)\V[\w-]*\V(.*)/) {
print $x . "http://www.fileserve.com.SQUIDINTERNAL/" . $1 . "/" . $2 . "\n";
# =====
# Filesonic
# =====
} elseif (m/^http:\V\/s[0-9]*\filesonic\.com\download\/([0-9]*)\V(.*)/) {
print $x . "http://www.filesonic.com.SQUIDINTERNAL/" . $1 . "\n";
# =====
# 4shared
# =====
} elseif (m/^http:\V\/[a-zA-Z]{2}\d*\4shared\.com(:8080|)\Vdownload\/(.*)\V(.*\..*)\?.*/) {
print $x . "http://www.4shared.com.SQUIDINTERNAL/download/$2\3\n";
# =====
# 4shared preview
# =====
} elseif (m/^http:\V\/[a-zA-Z]{2}\d*\4shared\.com(:8080|)\Vimg\(\d*\)\V\w*\Vdlink__2Fdownload_2F(\w*)_3Ftsid_3D[\w-]*\Vpreview\mp3?sld=\w*/) {
print $x . "http://www.4shared.com.SQUIDINTERNAL/$2\n";
# =====
# Photos-X.ak.fbcdn.net where X a-z
# =====
} elseif (m/^http:\V\/photos-[a-z](\ak\.fbcdn\.net)\V(.*)\V(.*.jpg)/) {
print $x . "http://photos" . $1 . "/" . $2 . $3 . "\n";
# =====
# YX.sphotos.ak.fbcdn.net where X 1-9, Y a-z
# =====
} elseif (m/^http:\V\/[a-z][0-9]\sphotos\.ak\.fbcdn\.net\(\w*)\V(.*)/) {
print $x . "http://photos.ak.fbcdn.net/" . $1 . "/" . $2 . "\n";
# =====
# maps.google.com

```

```
# =====
} elif (m/^http:\V\((cbk|mt|khm|mlt|tbn)[0-9]?(\.google\.co(m|\.uk|\.id).*)/)) {
print $x . "http://" . $1 . $2 . "\n";
# =====
# Compatibility for old cached get_video?video_id
# =====
} elif (m/^http:\V\([0-9.]{4}|.*\.youtube\.com|.*\.googlevideo\.com|.*\.video\.google\.com).*?(videoplayback\?id=.*?|video_id=.*?)\&(.*?) /) {
$z = $2; $z =~ s/video_id=/get_video?video_id=/;
print $x . "http://video-srv.youtube.com.SQUIDINTERNAL/" . $z . "\n";
# =====
# Youtube fix
# =====
} elif (m/^http:\V\([0-9.]{4}|.*\.youtube\.com|.*\.googlevideo\.com|.*\.video\.google\.com)\Vvideoplayback\?(.*) /) {
$p_str = $2;
$tag = "";
$alg = "";
$id = "";
$range = "";
if ($p_str =~ m/(itag=[0-9]*)/){$tag = "&". $1}
if ($p_str =~ m/(algorithm=[a-z]*-[a-z]*)/){$alg = "&". $1}
if ($p_str =~ m/(id=[a-zA-Z0-9]*)/){$id = "&". $1}
if ($p_str =~ m/(range=[0-9\-\]*)/){$range = "&". $1; $range =~ s/-//; $range =~ s/range=//; }
print $x . "http://video-srv.youtube.com.SQUIDINTERNAL/" . $tag . "&" . $alg . "&" . $id . "&" . $range . "\n";
# =====
# Google Analytic
# =====
} elif (m/^http:\V\www\.google-analytics\.com\__utm\.gif\?(.*) /) {
print $x . "http://www.google-analytics.com/__utm.gif\n";
# =====
# Cache High Latency Ads
# =====
} elif (m/^http:\V\([a-z0-9.]*)(\.doubleclick\.net|\.quantserve\.com|\.googlesyndication\.com|yieldmanager|cpinteractive)(.*) /) {
$y = $3; $z = $2;
for ($y) {
s/pixel;.* /pixel/;
s/activity;.* /activity/;
s/(imgad[^\&]*).* /\1/;
s/;ord=[?0-9]*//;
s/;&timestamp=[0-9]*//;
s/[\&?]correlator=[0-9]*//;
s/&cookie=[^\&]*//;
s/&ga_hid=[^\&]*//;
s/&ga_vid=[^\&]*//;
s/&ga_sid=[^\&]*//;
# s/&prev_slotnames=[^\&]*//
# s/&u_his=[^\&]*//;
```



```

s/&dt=[^&]*//;
s/&dtd=[^&]*//;
s/&lmt=[^&]*//;
s/(&alternate_ad_url=http%3A%2F%2F[^(%2F)]*)[^&]*\1/;
s/(&url=http%3A%2F%2F[^(%2F)]*)[^&]*\1/;
s/(&ref=http%3A%2F%2F[^(%2F)]*)[^&]*\1/;
s/(&cookie=http%3A%2F%2F[^(%2F)]*)[^&]*\1/;
s/[:,&?]ord=[?0-9]*//;
s/[:,&]mpvid=[^&]*//;
s/&xpc=[^&]*//;
# yieldmanager
s/\?clickTag=[^&]*//;
s/&u=[^&]*//;
s/&slotname=[^&]*//;
s/&page_slots=[^&]*//;
}
print $x . "http://" . $1 . $2 . $y . "\n";
# =====
# Cache high latency ads
# =====
} elseif (m/^http:\V\/(.*)\V(ads)\?(.*)/) {
print $x . "http://" . $1 . "/" . $2 . "\n";
# =====
# spicific servers starts here....
# =====
} elseif (m/^http:\V\/(www\.ziddu\.com.*\.[^\/]{3,4})\V(.*)/) {
print $x . "http://" . $1 . "\n";
# =====
# cdn, variabelble 1st path
# =====
} elseif (($u =~ /filehippo/) && (m/^http:\V\/(.*)\V(.*)\V(.*)\V(.*)\V([a-z0-9]{3,4})\V(.*?)?/)) {
@y = ($1,$2,$4,$5);
$y[0] =~ s/[a-z0-9]{2,5}/cdn./;
print $x . "http://" . $y[0] . $y[1] . "/" . $y[2] . "." . $y[3] . "\n";
# =====
# Rapidshare
# =====
} elseif (($u =~ /rapidshare/) && (m/^http:\V\/(((A-Za-z)+[0-9-.]*)?)([a-z]*\.[^\/]{3})\V[a-z]*\V[0-9]*)\V(.*)\V([^\V\?&]{4})$/)) {
print $x . "http://cdn." . $3 . "/SQUIDINTERNAL/" . $5 . "\n";
} elseif (($u =~ /maxporn/) && (m/^http:\V\/([^\V]*?)\V(.*)\V([^\V]*?)\V(.*?)?$/)) {
print $x . "http://" . $1 . "/SQUIDINTERNAL/" . $3 . "\n";
# =====
# like porn hub variables url and center part of the path, filename etention 3 or 4 with or without ? at the end
# =====
} elseif (($u =~ /tube8|pornhub|xvideos/) && (m/^http:\V\/(((A-Za-z)+[0-9-.]*)?)(\.[a-z]*)?\V([a-z]*[0-9]?)\.[^\/]{3}\V[a-z]*)(.*)\V([a-z]*)\V([^\V]*){4}\.[^\/]{3,4})\V(.*?)?$/)) {
print $x . "http://cdn." . $4 . $6 . "\n";
#...spicific servers end here.
# =====

```

```

# Photos-X.ak.fbcdn.net where X a-z
# =====
} elif (m/^http:\/\photos-[a-z].ak.fbcdn.net\/(.*)/) {
    print $x . "http://photos.ak.fbcdn.net/" . $1 . "\n";
# =====

# For yimg.com video
# =====
} elif (m/^http:\/\(.?yimg.com)\.yimg.com\/\(.*)\.[^\/?&]{3,4}(\.?)?$/ ) {
    print $x . "http://cdn.yimg.com/" . $3 . "\n";
# =====

# For yimg.com doubled
# =====
} elif (m/^http:\/\(.?yimg.com)\.yimg.com\/\(.?yimg.com)\.yimg.com\/\(.?yimg.com)\.yimg.com\/\(.*)/) {
    print $x . "http://cdn.yimg.com/" . $3 . "\n";
# =====

# For yimg.com with &sig=
# =====
} elif (m/^http:\/\(.?yimg.com)\.yimg.com\/\(.*)/) {
    @y = ($1,$2);
    $y[0] =~ s/[a-z]+[0-9]+/cdn/;
    $y[1] =~ s/&sig=.*//;
    print $x . "http://" . $y[0] . ".yimg.com/" . $y[1] . "\n";
# =====

# Youjizz. We use only domain and filename
# =====
} elif (($u =~ /media[0-9]{2,5}\.youjizz/) && (m/^http:\/\(.*)\.[^\/?&]
)*?\.?)*?\/\(.*)\.[^\/?&]{3,4}(\.?)?$/)) {
    @y = ($1,$2,$4,$5);
    $y[0] =~ s/([a-zA-Z]+[0-9]+(-[a-zA-Z])?)|(.cdn.)|(.cache.)/cdn/;
    print $x . "http://" . $y[0] . $y[1] . "/" . $y[2] . "." . $y[3] . "\n";
# =====

# General purpose for cdn servers. add above your specific servers.
# =====
} elif (m/^http:\/\([0-9]*\)\.yimg.com\/\(.*)\.[^\/?&]{3,4}(\.?)?$/ ) {
    print $x . "http://squid-cdn-url/" . $2 . "." . $3 . "\n";
# =====

# Generic http://variable.domain.com/path/filename."ex" "ext" or "exte" with or without "?" or "%"
# =====
} elif (m/^http:\/\(.*)\.[^\/?&]{2,4}(\.?)?$/ ) {
    @y = ($1,$2,$3,$4);
    $y[0] =~ s/([a-zA-Z]+[0-9]+(-[a-zA-Z])?)|(.cdn.)|(.cache.)/cdn/;
    print $x . "http://" . $y[0] . $y[1] . "/" . $y[2] . "." . $y[3] . "\n";
# =====

# generic http://variable.domain.com/...
# =====
} elif (m/^http:\/\([A-Za-z]+[0-9]+)*?|.*cdn.*|.*cache.*\.[^\/?&]{3,4}(\.?)?$/ ) {
    print $x . "http://cdn." . $3 . "." . $4 . "/" . $5 . "\n";
# =====

# spicific extention that ends with ?
# =====

```

```

} elif (m/^http:\V\/(.*)\V\/(.*)\.(jp(e?g|e|2)|gif|png|tiff?|bmp|ico|flv|on2)(.*)/) {
  print $x . "http://" . $1 . "/" . $2 . "." . $3 . "\n";
# =====
# all that ends with ;
# =====
} elif (m/^http:\V\/(.*)\V\/(.*)\;(.*)/) {
  print $x . "http://" . $1 . "/" . $2 . "\n";
} else {
  print $x . $_ . "sucks\n";
}
}
#=====EOF=====

```

10 . Ubah hak akses pada storeurl.pl

```
chown proxy:proxy /etc/squid/storeurl.pl
```

```
chmod +x /etc/squid/storeurl.pl
```

11. Ubah hak akses pada cache

```
chown proxy:proxy /cache-{1,2,3,4,5}
```

```
chmod 777 /cache-{1,2,3,4,5}
```

12. ikuti perintah dibawah ini:

```
lusca -d1
```

13. Restart lusca nya

```
/etc/init.d/lusca restart
```

14. Untuk memonitorix nya atau melihat kinerja client menggunakan perintah dibawah ini :

```
tail -f /var/log/lusca/access.log | ccze
```

```

root@ubuntu: /home/ubuntu
1" 404 649 TCP_MISS:DIRECT
192.168.12.40 - - [16/Jul/2014:09:10:10 +0700] "GET http://security.ubuntu.com/u
buntu/dists/trusty-security/Release HTTP/1.1" 200 58938 TCP_REFRESH_MISS:DIRECT
192.168.12.40 - - [16/Jul/2014:09:10:10 +0700] "GET http://ppa.launchpad.net/web
upd8team/y-ppa-manager/ubuntu/dists/trusty/main/i18n/Translation-en.lzma HTTP/1.
1" 404 649 TCP_MISS:DIRECT
192.168.12.40 - - [16/Jul/2014:09:10:10 +0700] "GET http://ppa.launchpad.net/mys
tic-mirage/komodo-edit/ubuntu/dists/trusty/main/i18n/Translation-en.gz HTTP/1.1"
404 647 TCP_MISS:DIRECT
192.168.12.40 - - [16/Jul/2014:09:10:10 +0700] "GET http://ppa.launchpad.net/web
upd8team/y-ppa-manager/ubuntu/dists/trusty/main/i18n/Translation-en.gz HTTP/1.1"
404 647 TCP_MISS:DIRECT
192.168.12.40 - - [16/Jul/2014:09:10:11 +0700] "GET http://ppa.launchpad.net/mys
tic-mirage/komodo-edit/ubuntu/dists/trusty/main/i18n/Translation-en HTTP/1.1" 40
4 644 TCP_MISS:DIRECT
192.168.12.40 - - [16/Jul/2014:09:10:11 +0700] "GET http://ppa.launchpad.net/web
upd8team/y-ppa-manager/ubuntu/dists/trusty/main/i18n/Translation-en HTTP/1.1" 40
4 644 TCP_MISS:DIRECT
192.168.12.35 - - [16/Jul/2014:09:10:12 +0700] "GET http://akhmadnursidiq.blogsp
ot.com/feeds/posts/summary/? HTTP/1.1" 200 3626 TCP_MISS:DIRECT
192.168.12.40 - - [16/Jul/2014:09:10:13 +0700] "GET http://packages.linuxmint.co
m/dists/qiana/upstream/binary-i386/Packages.gz HTTP/1.1" 200 23872 TCP_REFRESH_M
ISS:DIRECT

```

sumber : ubuntuserverguide

sumber : wikipedia.org

sumber : kajianpustaka.com