Load Balancing + Proxy Eksternal (Game Poker & Poinblank LANCAR...!!)

Code:

bahan:

- RB750 VER 4.9
- 2 Line Speedy Paket Office
- Ubuntu Versi 10.04

SISI MIKROTIK:

/ip adrress

- 172.19.196.1/24 interface proxy
- 192.168.88.1/24 interface lan
- 192.168.1.1/24 interface modem-1
- 192.168.2.1/24 interface modem-2

catatan: - dial lewat mikrotik dgn modem sbg brigde

- ip mesin ubuntu 172.19.196.100

PROXY HIT

Code:

/ip firewall mangle

add action=mark-packet chain=prerouting comment=proxy-hit disabled=no dscp=12 \ new-packet-mark=proxy-hit passthrough=yes

/queue tree

add burst-limit=0 burst-threshold=0 burst-time=0s disabled=no limit-at=0 \ max-limit=0 name=HIT packet-mark=proxy-hit parent=global-out priority=1 \ queue=default

PCC RULE MARK ALL PPPOE CONN Code:

/ip firewall mangle

add action=mark-connection chain=input comment=\

"PCC RULE ---- MARK ALL PPPoE CONN" connection-state=new disabled=no \ in-interface=pppoe_1 new-connection-mark=pppoe1_conn passthrough=yes

add action=mark-connection chain=input comment="" connection-state=new \ disabled=no in-interface=pppoe_2 new-connection-mark=pppoe2_conn \ passthrough=yes

add action=mark-connection chain=prerouting comment="" connection-state=\ established disabled=no in-interface=pppoe_1 new-connection-mark=\ pppoe1_conn passthrough=yes

- add action=mark-connection chain=prerouting comment="" connection-state=\ established disabled=no in-interface=pppoe_2 new-connection-mark=\ pppoe2_conn passthrough=yes
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no in-interface=pppoe_1 new-connection-mark=pppoe1_conn \ passthrough=yes
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no in-interface=pppoe_2 new-connection-mark=pppoe2_conn \ passthrough=yes
- add action=mark-routing chain=output comment="" connection-mark=pppoe1_conn \ disabled=no new-routing-mark=pppoe_1 passthrough=no
- add action=mark-routing chain=output comment="" connection-mark=pppoe2_conn \ disabled=no new-routing-mark=pppoe_2 passthrough=no

PCC RULE MARK HTTP CONN Code:

/ip firewall mangle

add action=mark-connection chain=prerouting comment=\
"PCC RULE MARK HTTP CONN" connection-state=established disabled=no \
dst-address-type=!local dst-port=80 in-interface=proxy \
new-connection-mark=http_pppoe_1 passthrough=yes \
per-connection-classifier=both-addresses-and-ports:2/0 protocol=tcp

- add action=mark-connection chain=prerouting comment="" connection-state=\
 established disabled=no dst-address-type=!local dst-port=80 in-interface=\
 proxy new-connection-mark=http_pppoe_2 passthrough=yes \
 per-connection-classifier=both-addresses-and-ports:2/1 protocol=tcp
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no dst-address-type=!local dst-port=80 in-interface=\ proxy new-connection-mark=http_pppoe_1 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/0 protocol=tcp
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no dst-address-type=!local dst-port=80 in-interface=\ proxy new-connection-mark=http_pppoe_2 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/1 protocol=tcp

PCC RULE MARK NON HTTP CONN Code:

/ip firewall mangle

add action=mark-connection chain=prerouting comment=\

- "PCC RULE ---- MARK NON -HTTP CONN" connection-state=established \ disabled=no dst-address-type=!local dst-port=!80 in-interface=lan \ new-connection-mark=non.http_pppoe_1 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/0 protocol=tcp
- add action=mark-connection chain=prerouting comment="" connection-state=\ established disabled=no dst-address-type=!local dst-port=!80 \ in-interface=lan new-connection-mark=non.http_pppoe_2 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/1 protocol=tcp
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no dst-address-type=!local dst-port=!80 in-interface=lan \ new-connection-mark=non.http_pppoe_1 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/0 protocol=tcp
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no dst-address-type=!local dst-port=!80 in-interface=lan \ new-connection-mark=non.http_pppoe_2 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/1 protocol=tcp
- add action=mark-connection chain=prerouting comment="" connection-state=\
 established disabled=no dst-address-type=!local in-interface=lan \
 new-connection-mark=non.http_pppoe_1 passthrough=yes \
 per-connection-classifier=both-addresses-and-ports:2/0 protocol=udp
- add action=mark-connection chain=prerouting comment="" connection-state=\
 established disabled=no dst-address-type=!local in-interface=lan \
 new-connection-mark=non.http_pppoe_2 passthrough=yes \
 per-connection-classifier=both-addresses-and-ports:2/1 protocol=udp
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no dst-address-type=!local in-interface=lan \ new-connection-mark=non.http_pppoe_1 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/0 protocol=udp
- add action=mark-connection chain=prerouting comment="" connection-state=\ related disabled=no dst-address-type=!local in-interface=lan \ new-connection-mark=non.http_pppoe_2 passthrough=yes \ per-connection-classifier=both-addresses-and-ports:2/1 protocol=udp

PCC RULE MARK HTTP dan NON HTTP ROUTE Code:

/ip firewall mangle

add action=mark-routing chain=prerouting comment=\
 "PCC RULE ---- MARK - HTTP ROUTE" connection-mark=http_pppoe_1 disabled=\
 no new-routing-mark=pppoe_1 passthrough=yes

add action=mark-routing chain=prerouting comment="" connection-mark=\ http_pppoe_2 disabled=no new-routing-mark=pppoe_2 passthrough=yes

```
add action=mark-routing chain=prerouting comment=\
  "PCC RULE MARK NON HTTP ROUTE" connection-mark=non.http_pppoe_1 \
  disabled=no new-routing-mark=pppoe_1 passthrough=yes
add action=mark-routing chain=prerouting comment="" connection-mark=\
  non.http pppoe 2 disabled=no new-routing-mark=pppoe 2 passthrough=yes
NAT
Code:
/ip firewall nat
add action=masquerade chain=srcnat comment=MASQUERADE1 disabled=no \
  out-interface=pppoe_1
add action=masquerade chain=srcnat comment=MASQUERADE2 disabled=no \
  out-interface=pppoe_2
add action=masquerade chain=srcnat comment=MASQUERADE3 disabled=no \
  out-interface=proxy
add action=dst-nat chain=dstnat comment=TRANSPARENT-DNS disabled=no dst-port=\
  53 in-interface=lan protocol=udp to-ports=53
add action=dst-nat chain=dstnat comment="" disabled=no dst-port=53 \
  in-interface=lan protocol=tcp to-ports=53
add action=dst-nat chain=dstnat comment="" disabled=no dst-port=53 \
  in-interface=proxy protocol=udp to-ports=53
add action=dst-nat chain=dstnat comment="" disabled=no dst-port=53 \
  in-interface=proxy protocol=tcp to-ports=53
add action=dst-nat chain=dstnat comment=TRANSPARENT-proxy disabled=no \
  dst-address-list=!proxyNET dst-port=80,8080,3128 in-interface=lan \
  protocol=tcp to-addresses=172.19.196.100 to-ports=3128
add action=dst-nat chain=dstnat comment="REMOTE PROXY" disabled=no \
  dst-address=125.165.40.xxx dst-port=22 protocol=tcp to-addresses=\
  172.19.196.100 to-ports=22
ADDRESS LIST
Code:
/ip firewall address-list
add address=192.168.88.0/24 comment="" disabled=no list=lanNET
```

add address=172.19.196.0/24 comment="" disabled=no list=proxyNET

ROUTE Code:

```
/ip route
add check-gateway=ping disabled=no distance=1 dst-address=0.0.0.0/0 gateway=\
  pppoe_1 routing-mark=pppoe_1 scope=30 target-scope=10
add check-gateway=ping disabled=no distance=1 dst-address=0.0.0.0/0 gateway=\
  pppoe_2 routing-mark=pppoe_2 scope=30 target-scope=10
add check-gateway=ping comment=Default-Route-pppoe1-Distance-1 disabled=no \
  distance=1 dst-address=0.0.0.0/0 gateway=pppoe 1 scope=30 target-scope=10
add check-gateway=ping comment=Default-Route-pppoe2-Distance-2 disabled=no \
  distance=2 dst-address=0.0.0.0/0 gateway=pppoe_2 scope=30 target-scope=10
Kita lanjut pada sisi proxy-nya
Partisi HDD
Code:
Dari harddisk 160Gb dibagi sebagai berikut:
/boot 1Gb ext4 Boot Flag Boot
/ 3Gb ext4 System
/usr 4Gb ext4 Static Variable
/var 4Gb ext4 Variable
swap 1Gb swap (1 x besaran RAM)
/home/proxy1 10 Gb /ReiserFS
/home/proxy2 10 Gb /ReiserFS
/home/proxy3 10 Gb /ReiserFS
/home/share (sisanya) ext4 Share Documents
Install Paket
Code:
- sudo apt-get update
- sudo apt-get install squid
- sudo apt-get install squid squidclient squid-cgi
- sudo apt-get install ccze
```

setelah selesai install paket lakukan edit squid.conf

dgn lokasi : /etc/squid/squid.conf

menjadi:

SQUID.CONF Code:	
## # Proxy Server Versi 2.7.Stable6 # by teukurizal@yahoo.com.sg # update 11 Juni 2010 ##	
#	#
# Port	

http_port 3128 transparent	
icp_port 3130	
prefer_direct off	
#	#
# Mengatasi Facebook Blank setelah login	"
#	#
server_http11 on	
·	
#	#
# Cache & Object #	Ш
#	#
cache_mem 8 MB	
cache_swap_low 98	
cache_swap_high 99	
max_filedesc 8192	
maximum_object_size 128 MB	
minimum_object_size 0 KB	
maximum_object_size_in_memory 128 KB	
ipcache_size 10240	
ipcache_low 98	
ipcache_high 99	
fgdncache_size 4096	
cache_replacement_policy heap LFUDA	
memory_replacement_policy heap GDSF	
#	щ
## cache_dir <type> <directory-name> <space< th=""><th>"</th></space<></directory-name></type>	"
#	
applied the sufe /harras /arras / 7000 1/ 05/	
cache_dir aufs /home/proxy1 7000 16 256	
cache_dir aufs /home/proxy2 7000 16 256 cache_dir aufs /home/proxy3 7000 16 256	
cache_uii auis/home/proxys /000 to 230	
cache_access_log /var/log/squid/access.log	
0 0 .	
cache_log /var/log/squid/cache.log	
cache_log /var/log/squid/cache.log cache_store_log none pid_filename /var/run/squid.pid	
cache_log /var/log/squid/cache.log cache_store_log none pid_filename /var/run/squid.pid cache_swap_log /var/log/squid/swap.state	
cache_log /var/log/squid/cache.log cache_store_log none pid_filename /var/run/squid.pid cache_swap_log /var/log/squid/swap.state dns_nameservers /etc/resolv.conf	
cache_log /var/log/squid/cache.log cache_store_log none pid_filename /var/run/squid.pid cache_swap_log /var/log/squid/swap.state dns_nameservers /etc/resolv.conf emulate_httpd_log off	
cache_log /var/log/squid/cache.log cache_store_log none pid_filename /var/run/squid.pid cache_swap_log /var/log/squid/swap.state dns_nameservers /etc/resolv.conf emulate_httpd_log off hosts_file /etc/hosts	
cache_log /var/log/squid/cache.log cache_store_log none pid_filename /var/run/squid.pid cache_swap_log /var/log/squid/swap.state dns_nameservers /etc/resolv.conf emulate_httpd_log off	

Rules: Safe Port
##
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 to_localhost dst 127.0.0.0/8
acl SSL_ports port 443 563 873 # https snews rsync
acl Safe_ports port 80 # http
acl Safe_ports port 20 21 # ftp
acl Safe_ports port 70 # gopher
acl Safe_ports port 210 # wais
acl Safe_ports port 1025-65535 # unregistered ports
acl Safe_ports port 631 # cups
acl Safe_ports port 10000 # webmin acl Safe_ports port 901 # SWAT
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 873 # rsync
acl Safe_ports port 110 # POP3
acl Safe_ports port 25 # SMTP
acl Safe_ports port 2095 2096 # webmail from cpanel
acl Safe_ports port 2082 2083 # cpanel
- '
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 !SSL_ports
http_access deny CONNECT !SSL_ports !Safe_ports
##
Refresh Pattern
##

pictures & images

refresh_pattern -i \.(gif|png|jpeg|jpg|bmp|tif|tiff|ico)\$ 10080 50% 43200 override-expire override-lastmod reload-into-ims ignore-reload ignore-no-cache ignore-auth ignore-private refresh_pattern -i \.(xml|htm||htm||js|txt|css|php)\$ 10080 50% 43200 override-expire override-lastmod reload-into-ims ignore-reload ignore-no-cache ignore-auth

#sound, video multimedia

refresh_pattern -i \.(flv|x-flv|mov|avi|qt|mpg|mpeg|swf)\$ 10080 50% 43200 override-expire override-lastmod reload-into-ims ignore-reload ignore-no-cache refresh_pattern -i \.(wav|mp3|mp4|au|mid)\$ 10080 50% 43200 override-expire override-lastmod reload-into-ims ignore-reload ignore-no-cache ignore-auth ignore-private

files

 $refresh_pattern - i \ \ (iso|deb|rpm|zip|tar|tgz|ram|rar|bin|ppt|doc) \$ \ 10080 \ 90\% \ 43200 \ ignore-no-cache \ ignore-auth$

refresh_pattern -i \.(zip|gz|arj|lha|lzh)\$ 10080 100% 43200 override-expire ignore-no-cache ignore-auth

refresh_pattern -i \.(rar|tgz|tar|exe|bin)\$ 10080 100% 43200 override-expire ignore-no-cache ignore-auth

refresh_pattern -i \.(hqx|pdf|rtf|doc|swf)\$ 10080 100% 43200 override-expire ignore-no-cache ignore-auth

refresh_pattern -i \.(inc|cab|ad|txt|dll)\$ 10080 100% 43200 override-expire ignore-no-cache ignore-auth

-- refresh pattern for specific sites --

refresh_pattern ^http://*.jobstreet.com.*/.* 720 100% 10080 override-expire override-lastmod ignore-no-cache

refresh_pattern ^http://*.indowebster.com.*/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-reload ignore-no-cache ignore-auth

refresh_pattern ^http://*.21cineplex.*/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-reload ignore-no-cache ignore-auth

refresh_pattern ^http://*.atmajaya.*/.* 720 100% 10080 override-expire ignore-no-cache ignore-auth

refresh_pattern ^http://*.kompas.*/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.theinquirer.*/.* 720 100% 10080 override-expire ignore-no-cache ignore-auth

refresh_pattern ^http://*.blogspot.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.wordpress.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache

refresh_pattern ^http://*.photobucket.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.tinypic.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.imageshack.us/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.kaskus.*/.* 720 100% 28800 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://www.kaskus.com/.* 720 100% 28800 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.detik.*/.* 720 50% 2880 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.detiknews.*/*.* 720 50% 2880 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://video.liputan6.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://static.liputan6.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.friendster.com/.* 720 100% 10080 override-expire override-lastmod ignore-no-cache ignore-auth

refresh_pattern ^http://*.facebook.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://apps.facebook.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.fbcdn.net/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://profile.ak.fbcdn.net/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://static.playspoon.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://cooking.game.playspoon.com/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern -i http://[^a-z\.]*onemanga\.com/? 720 80% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://media?.onemanga.com/.* 720 80% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.yahoo.com/.* 720 80% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.google.com/.* 720 80% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.forummikrotik.com/.* 720 80% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

refresh_pattern ^http://*.linux.or.id/.* 720 100% 10080 override-expire override-lastmod reload-into-ims ignore-no-cache ignore-auth

#default option

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

#	 	/
π		

ALLOWED ACCESS #------#

acl proxyku src 172.19.196.0/24 http_access allow proxyku http_access allow localhost http_access deny all http_reply_access allow all icp_access allow proxyku icp_access allow localhost icp_access deny all always_direct deny all

#	#
11	"
# Cache CGI & Administrative	
#	#

cache_mgr teukurizal@yahoo.com.sg visible_hostname dns.proxyku.net cache_effective_user proxy cache_effective_group proxy

coredump_dir /var/spool/squid shutdown_lifetime 10 seconds logfile_rotate 14
##
#tcp_outgoing_tos 0x30 localnet
##
zph_mode tos
zph_local 0x30
zph_parent 0
zph_option 136
Langkah berikut nya : Code:

Memberikan permission pada folder cache chown -R proxy.proxy /home/proxy chown proxy.proxy /var/log/squid/access.log

stop squid dgn perintah "squid stop"

Membuat folder-folder swap/cache di dalam folder cache yang telah ditentukan squid -f /etc/squid/squid.conf -z

Restart squid. squid restart