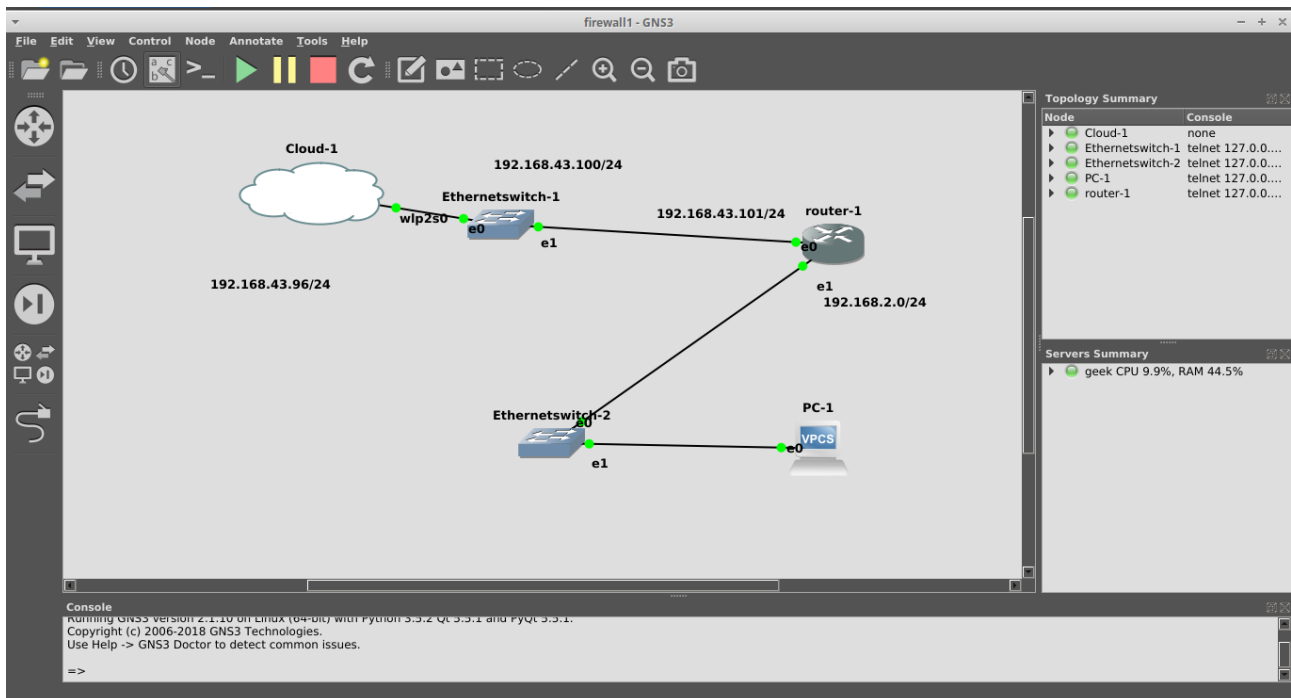


LAPORAN MATA KULIAH KEAMANAN KOMPUTER

MATERI FIRE WALL

Nama : Muhammad Bella Buay Nunyai
NPM : 1707051018

Buatlah topologi seperti gambar di bawah ini menggunakan GNS3



Kita Jalankan GNS3 \Rightarrow Run

Masuk ke Router melalui Console dan isikan IP address sesuai dengan interface masing-masing.

Sintaks =

- ip address add address=192.168.43.100/24 interface=ether1 (Laptop Kita)
- ip address add address=192.168.2.10/24 interface=ether2 (Virtual PC)

Dengan perintah **ip address add address=192.168.43.100/24 interface=ether1**

ip address add address=192.168.2.10/24 interface=ether2

Dengan perintah **print** untuk melihat ip yang sudah disetting

```
router-1
File Edit View Terminal Tabs Help
hachi@geek: ~ router-1

ROUTER HAS NO SOFTWARE KEY
-----
You have 22h19m to configure the router to be remotely accessible,
and to enter the key by pasting it in a Telnet window or in Winbox.
See www.mikrotik.com/key for more details.

Current installation "software ID": 6DC3-25ZK
Please press "Enter" to continue!
sep/24/2018 14:43:31 system,error,critical login failure for user admin via local
sep/24/2018 14:43:34 system,error,critical login failure for user admin via local
sep/24/2018 22:13:42 system,error,critical router was rebooted without proper shutdown

[admin@MikroTik] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
# ADDRESS NETWORK INTERFACE
0 192.168.43.100/24 192.168.43.0 ether1
1 192.168.2.10/24 192.168.2.0 ether2
[admin@MikroTik] >
```

Konfigurasi IP pada PC virtual dengan perintah **ip 192.168.2.11/24 255.255.255.0 192.168.2.10**

```
hachi@geek: ~ x router-1 x PC-1 x
VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

Checking for duplicate address...
PC1 : 192.168.2.11 255.255.255.0 gateway 192.168.2.10

PC-1> show ip

NAME       : PC-1[1]
IP/MASK     : 192.168.2.11/24
GATEWAY     : 192.168.2.10
DNS         :
MAC         : 00:50:79:66:68:00
LPORT      : 10018
RHOST:PORT  : 127.0.0.1:10019
MTU         : 1500

PC-1> 
```

Untuk melihat ip dengan perintah **show ip**

Lalu kita masuk settingan Firewall dengan perintah **ip firewall filter add chain=input src-address= 192.168.43.100 action=accept**

Lakukan perintah yang sama dengan perbedaan pada action dan src-address

ip firewall filter add chain=input src-address= 192.168.2.11 action=drop

```
hachi@geek: ~ x router-1 x PC-1 x
sep/24/2018 14:43:31 system,error,critical login failure for user admin via local
sep/24/2018 14:43:34 system,error,critical login failure for user admin via local
sep/24/2018 22:13:42 system,error,critical router was rebooted without proper sh
tdown

[admin@MikroTik] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
# ADDRESS NETWORK INTERFACE
0 192.168.43.100/24 192.168.43.0 ether1
1 192.168.2.10/24 192.168.2.0 ether2
[admin@MikroTik] > ip firewall filter
[admin@MikroTik] /ip firewall filter> print
Flags: X - disabled, I - invalid, D - dynamic
0 X chain=input action=accept src-address=192.168.43.100
1 X chain=input action=accept src-address=192.168.43.100
2 chain=input action=accept src-address=192.168.43.100
3 chain=input action=drop src-address=192.168.2.11
[admin@MikroTik] /ip firewall filter> 
```

Coba kita lakukan ping antar pc ke router

Dan Router ke pc apakah berhasil?

Blok konten di Mikrotik

Pada kesempatan kali ini saya akan mencoba memblokir akses terhadap 3 website yaitu Xhamster, Jav, dan Facebook

Bagaimana sih cara nya?

Pastikan kita masuk ke sub menu Firewall

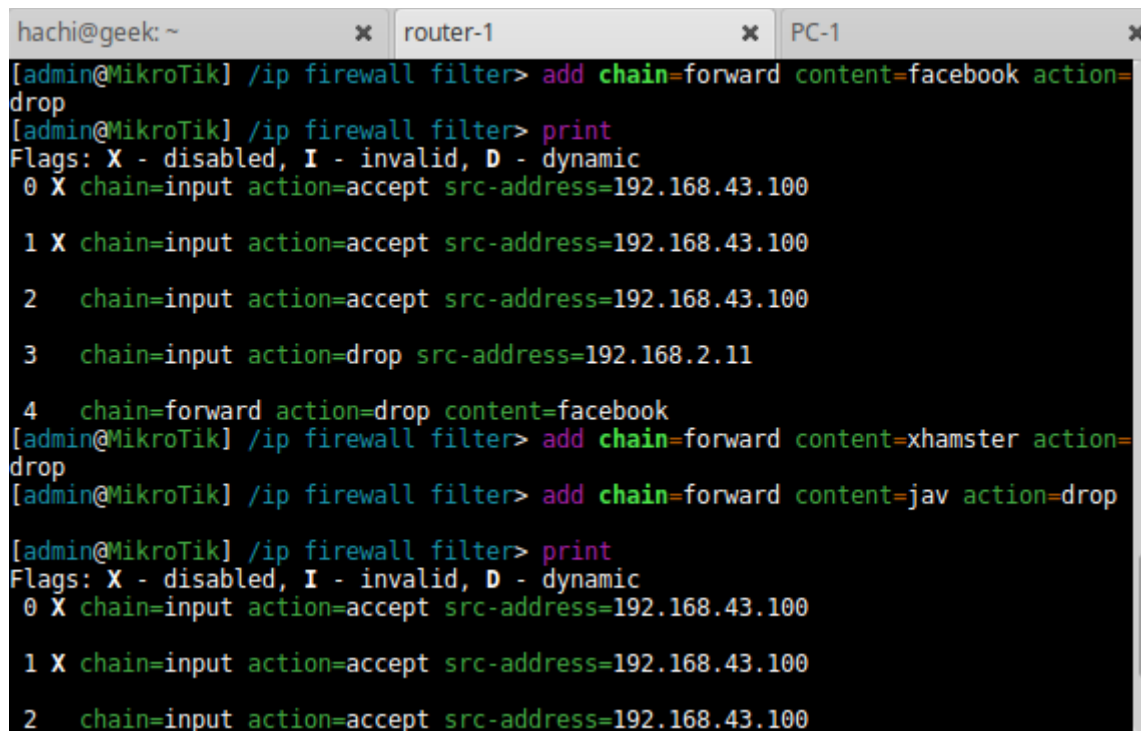
IP → Firewall → filter

Setelah masuk ke menu filter baru kita coba konfigurasi dan tambahkan chain yang akan kita blokir akses nya

Dengan perintah **add chain=forward content=xhamster action=drop**

add chain=forward content=jav action=drop

add chain=forward content=facebook action=drop

A screenshot of a Mikrotik WinBox terminal window. The window has three tabs: 'hachi@geek: ~', 'router-1', and 'PC-1'. The terminal shows the following commands and output:
[admin@MikroTik] /ip firewall filter> add chain=forward content=facebook action=drop
[admin@MikroTik] /ip firewall filter> print
Flags: X - disabled, I - invalid, D - dynamic
0 X chain=input action=accept src-address=192.168.43.100
1 X chain=input action=accept src-address=192.168.43.100
2 chain=input action=accept src-address=192.168.43.100
3 chain=input action=drop src-address=192.168.2.11
4 chain=forward action=drop content=facebook
[admin@MikroTik] /ip firewall filter> add chain=forward content=xhamster action=drop
[admin@MikroTik] /ip firewall filter> add chain=forward content=jav action=drop
[admin@MikroTik] /ip firewall filter> print
Flags: X - disabled, I - invalid, D - dynamic
0 X chain=input action=accept src-address=192.168.43.100
1 X chain=input action=accept src-address=192.168.43.100
2 chain=input action=accept src-address=192.168.43.100

Kita coba akses pada sisi client apakah masih terbuka atau tidak website tersebut