Konfigurasi router

Untuk mengkonfigurasi router menggunakan linux debian versi 5.0, ikuti langkah langkah dari gambar berikut:

1. Ketikkan perintah berikut

2tkj1-17:~# pico /etc/network/interfaces

2. Kemudian tambahkan tulisan dibawah ini :

# The secondary auto eth1	network interface
iface eth1 inet	static
address	172.16.1.1
netmask	255.255.255.192
network	172.16.1.0
broadcas	st 172.16.1.63

3. Sehingga menjadi seperti ini :

The primary network interface
allow-hotplug eth0
iface ethO inet static
address 192.168.4.17
netmask 255.255.255.192
network 192.168.4.0
broadcast 192.168.4.63
gateway 192.168.4.62
dns- \star options are implemented by the resolvconf package, if installe
dns-nameservers 192.168.1.62
dns-search antoksmkn1.sch.id
The secondary network interface
auto eth1
iface eth1 inet static
address 172.16.1.1
netmask 255.255.255.192
network 172.16.1.0
broadcast 172.16.1.63
auto constructivate esti cicle en la contra da constructiva esti

4. Kemudian restart networknya.

5. Restart komp.

6. Ketikkan perintah di bawah ini.

2tkj1-17:~# /etc/init.d/networking restart Reconfiguring network interfacesdone.	2tkj1-17:~# reboot	2tkj1-17:~# ifconfig le 2tkj1-17:~#
2tkj1-17:~#		20KJI-17.0#

7. Jika Nampak eth0 dan eth1, maka konfigurasi anda sudah benar

eth0	Link encap:Ethernet HWaddr 00:b0:4e:39:12:cd inet addr:192.168.4.17 Bcast:192.168.4.63 Mask:255.255.255.192
	UP BROADCAST MULTICAST MTU:1500 Metric:1
	RX packets:0 errors:0 dropped:0 overruns:0 frame:0
	TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
	collisions:0 txqueuelen:1000
	RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
	Interrupt:17 Base address:0xe800
ethi	Link encap:Ethernet HWaddr 00:1d:92:32:b8:69
	inet addr: 172.16.1.1 Bcast: 172.16.1.63 Mask: 255.255.255.192
	inet6 addr: fe80::21d:92ff:fe32:b869/64 Scope:Link
	UP BROADCAST RUNNING MULTICAST MTU: 1500 Metric: 1
	RX packets:153 errors:0 dropped:0 overruns:0 frame:0
	TX packets:75 errors:0 dropped:0 overruns:0 carrier:0
	collisions:0 txqueuelen:1000
	RX bytes:17154 (16.7 KiB) TX bytes:11434 (11.1 KiB)
	Interrupt:23 Base address:0xc800
10	Link encen Local Loonback
	inet eddr 127 0 0 1 Mask 255 0 0 0
	inet6 addr:1/128 Scope.Host
	INCLOOPBACK DIMNING WITH-16436 Metric-1
	DY neghts 24 errors 0 dronned 0 overruns 0 frems 0
	TY packats:24 errors:0 dropped:0 overrups:0 cerrier:0
	collisions. O trouvelelen. O
	RX bytes:1716 (1.6 KiB) TX bytes:1716 (1.6 KiB)

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- 8. Lalu pastikan settingan IP address di Windows and a seperti ini:
 - Use the following IP address:
 IP address:
 Subnet mask:
 Default gateway:
 Obtain DNS server address automatically
 Use the following DNS server addresses:
 Preferred DNS server:
 172, 16, 1, 1
- 9. Lalu kita cek koneksi dari server ke DNS atas.

```
2tkj1-17:~# ping 192.168.1.62
PING 192.168.1.62 (192.168.1.62) 56(84) bytes of data.
64 bytes from 192.168.1.62: icmp_seq=1 ttl=64 time=0.212 ms
64 bytes from 192.168.1.62: icmp_seq=2 ttl=64 time=0.163 ms
64 bytes from 192.168.1.62: icmp_seq=3 ttl=64 time=0.164 ms
^c
--- 192.168.1.62 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 1998ms
rtt min/avg/max/mdev = 0.163/0.179/0.212/0.027 ms
```

10. Kita cek koneksi dari windows ke server (IP Lokal)

C:\Documents and Settings\wisnu>ping 172.16.1.2
Pinging 172.16.1.2 with 32 bytes of data:
Reply from 172.16.1.2: bytes=32 time<1ms TTL=128 Reply from 172.16.1.2: bytes=32 time<1ms TTL=128 Reply from 172.16.1.2: bytes=32 time<1ms TTL=128 Reply from 172.16.1.2: bytes=32 time<1ms TTL=128
Packets: Sent = 3, Received = 3, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms
 11. Ketikkan perintah di samping kanan ini. 2tkj1-17:~# pico /etc/sysctl.conf 12. Lalu carilah baris yang seperti ini :

Uncomment the next line to enable packet forwarding for IPv4 $#net.ipv4.ip_forward=1$

13. Lalu hilangkan tanda "#" agar menjadi seperti ini:

```
# Uncomment the next line to enable packet forwarding for IPv4
net.ipv4.ip_forward=1
```

14. Lalu ketikkan perintah dibawah ini.

2tkj1-17:~# iptables -t nat -A POSTROUTING -o ethO -j MASQUERADE

- 15. Ketikkan perintah di samping kanan ini.
- 16. Jika pada layar anda muncul seperti ini, maka konfigurasi anda sudah benar. Namun jika tidak ada kata
 "MASQUERADE all 0.0.0.0/0 0.0.0.0/0"
 Maka sebelumnya, pasti ada perintah yang salah anda masukkan.,
- 17. Ketikkan perintah di samping kanan ini.

2tkj1-17:~# iptables -t nat -n -L tkj1-17:~# iptables -t nat -n -L Chain PREROUTING (policy ACCEPT) target prot opt source destination Chain POSTROUTING (policy ACCEPT) target prot opt source destination MASQUERADE all -- 0.0.0.0/0 0.0.0.0/0 Chain OUTPUT (policy ACCEPT) target prot opt source destination 2tkj1-17:~# iptables-save > /etc/network/iptables.conf 11

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18. Kemudian ketikkan perintah dibawah ini.



Chain OUTPUT (policy ACCEPT) target prot opt source

destination