

Modul Setting Mikrotik dan Implementasi Load Balancing Menggunakan 2 ISP (Internet Service Provider)

Setting Mikrotik

- **Reset Mikrotik**
- User Name : admin

Password :.....(kosong)

Pilih Connect

♥ WinBox (64bit) ∨3.35 (Addresses) File Tools						-	- 0	×
Connect To: 192.168.88.1							Keep Password	
Login: admin							Autosave Sessi	on
Password: 📃 💻							Open In New W	/indow
Session: <own></own>					₹	Browse	Auto Reconnec	:t
Note: RouterOS								
Group:						₹		
RoMON Agent:						₹		
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Manager Neighbors								
T Refresh						Fina	all	∓
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r item (i selected)								

Pilih SYSTEM kemudian RESET CONFIGURATION

🔘 admin@192.168.88.1 (RouterOS) - WinBox (64bit) v6.48.6 on RB951Ui-2HnD (mipsbe)

Session Settings Dashboard

– 0 ×

✓ Quick Set ✓ CAPsMAN Interfaces ✓ Wireless ✓ Bridge ✓ Switch ♡ Switch ♡ Switch O MPLS ✓ Corsole ○ Console ○ Disks ● Files Handhan	
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Scheduler	
Scripts	
Shutdown	
Special Login	
Users	
Watchdog	

RESET CONFIGURATION



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Beri Nama Interface

Ether1 (Input Internet) Ether 2 (Output Internet 1)



Hasil penggantian Nama Ether 1 dan Ether 2

Sadmin@DC:2C:6E:C9:57:BB (RouterOS) - WinBox (64bit) v6.48.6 on RB951Ui-2HnD (mipsbe)

	Session Settings Da	ashboard									
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Switch • there • Elternet 1000 1598 0 bos 0 0 bos 0 bos	🏣 PPP	B ther2(Output Internet)	Ethernet	1500	1598	U DDS 76.8 kbps	14.3 KDps 6 7 kbps	11	15	U DDS 76.4 kbps	13.8 KDPS 6.4 kbps
Meth Ethernet 1500 1598 D/ps D/ps 0 0 0 0 D/ps D/ps M PLS Herret 1500 1598 D/ps 0.ps 0 0 0.ps	🙄 Switch	🚸 ether3	Ethernet	1500	1598	0 bps	0 bps	0	0	0 bps	0 bps
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Supaya mikrotik dapat ip otomatis dari perangkat lainnya atau asal sumber internet(modem).



Berhasil dapat ip otomatis dari perangkat lainnya atau asal sumber internet (modem).



🛛 Safe Mode	Session: DC:2C:6E:C9:57:BB			
🗶 Quick Set	DHCP Client			
🔉 CAPsMAN	DHCP Client DHCP Client Options			
🛤 Interfaces				
🔉 Wireless				
💢 Bridge	Interface ether1 (Input Internet)		Expires After Status 00:09:51 bound	
🏣 PPP		yes yes 152,160,1,20724	bolos si bound	
🙄 Switch				
🚏 Mesh				
🐺 IP 🛛 🗅				
O MPLS ►				
📑 Routing 🛛 ▷				
System N				
🙅 Queues				
Files				
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X Tools				
New Terminal				
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MetaHUUTEH	_			
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	-			
	-			
🔲 Windows 🗈				

Setting Firewall - Nat - Masquerade supaya ip lokal mendapatkan akses internet.

🖓 🛛 Safe Mode	Session: DC:2C:6E:C9:57:BB		
🖋 Quick Set			
🗋 CAPsMAN			
Interfaces			
Wireless			
🕻 Bridge			
PPP			
🚽 Switch		Firewall	
🖁 Mesh	400	Filter Rules NAT Mangle Raw Service Ports Connections Address Lists Laver7 Protocols	
∮IP Þ	ARP		
MPLS 🗅			
🕻 Routing 🛛 🗅	Addresses	# Action Chain Src. Address Dst. Address Proto Src. Port Dst. Port In. Inter Out. Int In. Inter, Out. Int, Src. Add, Dst. Add, Bytes Packets	
🖡 System 🛛 🗅			
Queues			
Files	DHCP Relay		
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P RADIUS	Firewall		
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New Terminal	IPsec		
> Dot1X	Kid Control		
MetaROUTER	Neighbors		
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Make Supout.rif	Pool		
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	SNMP		
Vindows D	Services		
	Settings		
	Socks		
	TFTP		
	Traffic Flow		
	UPnP		
	Web Provu		

Masquerade

Sadmin@DC:2C:6E:C9:57:BB (RouterOS) - WinBox (64bit) v6.48.6 on RB951Ui-2HnD (mipsbe)

Session Settings Dashboard 🔊 🖓 🛛 Safe Mode Session: DC:2C:6E:C9:57:BB 💓 Quick Set 🔔 CAPSMAN 📖 Interfaces Wireless New NAT Rule 💥 Bridge Advanced Extra Action Statistics 🏣 PPP Filter Rules NAT Mangle Raw Service Ports Connections Address Lists Layer7 Protocols ΟK 🙄 Switch ÷ 7 O Reset Counters O Reset All Counters Action: masquerade Ŧ Cancel 🔭 Mesh # Action Chain Src. Address Dst. Address Proto... Src. Port Dst. Port In. Inter... Out. Int... In. Inter... Out. Int... S Apply 255 IP 🔄 Log MPLS Log Prefix: -Disable 对 Routing Comment To Ports: • 🔯 System Сору 🖿 Files Remove Log Reset Counters RADIUS Reset All Counters 🔀 Tools 📼 New Terminal 🚸 Dot1X 💻 MetaROUTER 🦺 Partition 🔊 Make Supout.rif 0 items 🕓 New WinBox 🛃 Exit 💷 Windows enabled

Beri Ip Address otomatis ether 2(Ouput Internet1)/ DHCP Server, dari sisi pengguna dapat ip address otomatis.

Safe Mode Se	ession: DC:2C:6E:C9:57:BB				
Safe Mode Se Quick Set CAPsMAN Interfaces Wireless Bridge PPP Switch Mesh IP N Queues Files Log RADIUS Tools New Terminal DottX MetaROUTER Partition Make Supout.rif New WinBox	ARP Accounting Addresses Cloud DHCP Client DHCP Relay DHCP Server DNS Firewall Hotspot IPsec Kid Control Neighbors Packing Pool	Address List Address / Network D + 192.168.7.28/ 192.168.7.0 1 item	Find Interface ▼ ether1 (Input Int	New Address Image: Cancel state of the state of th	
Kit Windows	SMB SNMP Services Settings Socks TFTP Traffic Flow UPnP Web Proxy				

Hasil setting DHCP Server Ether 2 untuk Ip Address Otomatis

admin@DC:2C:6E:C9:57:BB (RouterOS) - WinBox (64bit) v6.48.6 on RB951Ui-2HnD (mipsbe)

Session Settings Dashboard N CH Safe Mode Session: DC:2C:6E:C9:57:BB ы× 💓 Quick Set Address List 🔔 CAPsMAN × 🖆 🍸 ÷ 🛤 Interfaces Address Network Interface 🔔 Wireless 192.168.7.0 D + 192.168.7.28/24 ether1 (Input Internet) 💥 Bridge 字 192.168.100.1/24 192.168.100.0 ether2[Output Internet 1] 🏣 PPP 🙄 Switch 📬 Mesh 255 IP MPLS 茸 Routing 🔯 System 🦺 Queues 🗧 Files Log RADIUS X Tools 🖾 New Terminal 🚸 Dot1X 💻 MetaROUTER 🦺 Partition 📡 Make Supout.rif 🚫 New WinBox 🛃 Exit 💻 Windows 2 items

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Kemudian Pilih Ip-DHCP Server-DHCP-DHCP Setup kemudian pilih ether2 yang akan dijadikan pengalamatan Ip Address Otomatis dari sisi pengguna.

Session Settings Dashb	7:BB (RouterOS) - WINBO: board	(04010) V0.40.0 011 KB93 T01-2H11D (1111p	(5DE)			
Safe Mode S	Session: DC:2C:6E:C9:57:B	3				
Safe Mode S Quick Set CAPSMAN CAPSMAN Interfaces Wireless Bridge PPP Switch Switch Mesh Image: System P Routing P New Terminal Pot1X Partition P New WinBox P Nake Supout.rif P New Windows<	Bession: DC:2C:6E:C9:57:8 DHCP Server DHCP Nett PHCP Nett PHCP Nett PHCP Nett PHCP Nett PHCP Nett PHCP Nett Name	orks Leases Options Option Sets	Vendor Classes Alerts stup Lease Time Address Pool	Add AR		HCP Setup elect interface to run DHCP server on HCP Server Interface: ether2(Output Internet 1) Back Next Cancel
Ř	Web Proxy					



Hasil akhir DHCP Server di Ether 2

Sadmin@DC:2C:6E:C9:57:BB (RouterOS) - WinBox (64bit) v6.48.6 on RB951Ui-2HnD (mipsbe) đ × _ Session Settings Dashboard 🔊 📿 🛛 Safe Mode Session: DC:2C:6E:C9:57:BB Β× 💓 Quick Set DHCP Server 🔔 CAPsMAN DHCP Networks Leases Options Option Sets Vendor Classes Alerts Interfaces T DHCP Config DHCP Setup ÷ 🔔 Wireless Name Interface Relay 🔺 Lease Time Address Pool Add ARP For Leases 💥 Bridge dhcp1 ether2(Output Internet 1) 00:10:00 dhcp_pool1 no 🏣 PPP 🙄 Switch 📲 Mesh 🐺 IP MPLS 对 Routing 🔯 System 👰 Queues 📄 Files 🗏 Log RADIUS X Tools 📼 New Terminal 🚸 Dot1X MetaROUTER 🦺 Partition 📡 Make Supout.rif 🚫 New WinBox 🛃 Exit 💻 Windows R 1 item

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Klik 2 kali pada ether 2, kemudian dicentang Always Broadcast dan Add Arp For Leases.

Session Settings Da	hboard		
🔊 📿 🛛 Safe Mode	Session: DC:2C:6E:C9:57:BB		
🏏 💓 Quick Set	DHCP Server		
CAPSMAN	DHCP Networks Leases Options Option Sets Vendor Classes Alerts		
Interfaces	🕂 🗕 🖌 🗶 🍸 DHCP Config DHCP Setup	DHCR Server (dhee1)	Find
	INTERIACE Helay Lease TIME Address Pool Add ARP For Leases		
	dhcp1 ether2(Output Internet 1) 00:10:00 dhcp_pool1 no	denenc Queues Script	UK
🙄 Switch		Name: dhcp1	Cancel
°T, Mesh		Interface: ether2(Output Internet 1)	Apply
IP N		Relay:	Disable
O MPLS ►		Lease Time: 00:10:00	
Bustem		Bootp Lease Time: forever	Bemove
Queues		Address Pool: dhcp_pool1	Tremove
Files		DHCP Option Set:	
🗒 Log		Src. Address:	
RADIUS		Delay Threshold:	
X Tools		Authoritative: ues	
New Terminal		Booto Support: static	
MetaBOUTEB		Client MAC Limit:	
Partition			
📐 Make Supout.rif			
🔘 New WinBox		Always Broadcast	
🔣 Exit		✓ Add ARP For Leases	
		Use Framed As Classless	
		Conflict Detection	
\geq		enabled	
SO			
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1 item (1 selected)

Reboot mikrotik atau restart. Pilih System-Reboot.

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MPLS Certificates Bourge Cookd System Croisele Disks Disks Cooke Disks New Terninal New Password Password Password Password Post Password Post Password Post Password Post Password Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler	∰ IP ト	Auto Upgrade		
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Image: PADIUS LEDs LEDs License Logging Logging Note Logging Note Packages Packages Packages Password Ports Ports Pace Configuration Reboot Resources RouteBDARD SNTP Client Scheduler Scripts Shutdown Special Login	🗐 Log	Identity		
X Tools License Wew Terminal Logging Note Note NetARDUTER Packages Packages Password Pots Password New VinBox Reboot Resources RouteBOARD Scheduler Scheduler Scheduler Scheduler Scheduler Scheduler Shudown Special Login	RADIUS	LEDs		
Image: Second Secon	🗙 Tools 🛛 🔪	License		
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Scheduler Scripts Shutdown Special Login		SNTP Client		
Scripts Shutdown Special Login		Scheduler		
Shutdown Special Login		Scripts		
		Shutdown		
		Special Login		



Dari sisi klien atau pengguna sudah berhasil

👰 Network Connections				
← → → ↑ 👰 > Control Panel	📱 Ethernet Status	\times	Search Network Connections	
	Network Connection Details	×	×	
Organize 🔻 Disable this network d	Network Connection Details:		View status of this connection Change settings of this connection	
Ethernet Network 27 Realtek PCIe FE Family Contro Wi-Fi Not connected Dell Wireless 1704 802.11b/g/r	PropertyValueConnection-specific DNDescriptionRealtek PCIePhysical AddressE0-DB-55-90-DHCP EnabledYesIPv4 Address192.168.100.IPv4 Subnet Mask255.255.255.Lease ObtainedJumat, 14 OkIPv4 Default Gateway192.168.100.IPv4 DHCP Server192.168.100.IPv4 WINS ServerIPv4 WINS ServerNetBIOS over Topip EnYesLink-local IPv6 Addressfe80::cd2f:ab	FE Family Controller 1C-BF 254 0 tober 2022 09.50.35 tober 2022 10.01.43 1 1	ware Network Adapter VMnet1 bled ware Virtual Ethernet Adapter VMware Virtual Ethernet Adapter VMware Virtual Ethernet Adapter	
	IPv6 Default Gateway IPv6 DNS Servers fec0:0:0:ffff::1 fec0:0:0:ffff::2	%1 2%1 Close		

Dari sisi klien atau pengguna sudah berhasil. Kita tes **ping** ke google.com

C:\WINDOWS\system32\cmd.exe - ping_google.com -t \Box \times C:\Users\e>ping google.com -t Pinging google.com [142.251.12.138] with 32 bytes of data: Reply from 142.251.12.138: bytes=32 time=25ms TTL=58 Reply from 142.251.12.138: bytes=32 time=30ms TTL=58 Reply from 142.251.12.138: bytes=32 time=25ms TTL=58

Dari sisi klien atau pengguna sudah berhasil. Kita **tes tracert** google.com.

X

C:\WINDOWS\system32\cmd.exe - tracert_google.com C:\Users\e>tracert google.com Tracing route to google.com [142.251.12.100] over a maximum of 30 hops: <1 ms 192.168.100.1 1 <1 ms <1 ms 2 <1 ms <1 ms 192.168.7.1 <1 ms 12 ms ip-103-83-6-241.moratelindo.net.id [103.122.33.241] 13 ms ip-103-83-6-161.moratelindo.net.id [103.83.6.161] 4 13 **m**s 13 ms 25 ms ip-103-83-6-18.moratelindo.net.id [103.83.6.18] 5 25 ms 25 ms 6 27 m s 27 ms 74.125.118.220 25 m/s 25 ms 108.170.254.225 28 ms 8 27 ms 27 ms 37 ms 108.170.254.227 9 28 ms 216.239.35.174 10 26 ms 26 ms 26 ms 209.85.250.37 11 25 ms 26 ms 142.251.52.243 28 ms 12 * Request timed out. 13 ж Request timed out. * Request timed out. 14 ж 15 ж Request timed out. 16 Request timed out. 17

Setting Ip Gateway ISP I

Pilih Menu di Mikrotik IP >> Address Isi Address 192.168.18.2/24 Network 192.168.18.0.1 Interface ether1 (Isp 1)

Session Settings Da:	shboard					
🔊 😋 🛛 Safe Mode	Session: E4:8D:8C:AC:16:32					
🖉 🏏 Quick Set	Address List					
CAPSMAN	+ - * * 🗂 🍸			Address < 192 168 18 2/24>		Find
Interfaces	Address	/ Network	Interface	A drawn [102.100.10.2/24		¥
Wireless	;;; lsp 1	THOMAS IN .		Address: 192166.16.2724	UK	
💥 Bridge	× 🕈 192.168.18.2/24	192.168.18.0	ether1 (isp 1)	Network: 192.168.18.0	Cancel	
늘 PPP	× + 192.168.18.3/24	192,168,18.0	ether2 (isp 2)	Interface: ether1 (isp 1)	Apply	
🙄 Switch	D + 192.168.18.23/24	192.168.18.0	ether1 (isp 1)		- Faceble	
"," Mesh	+ 192.168.100.1/24	192.168.100.0	ether3 (lokal)		Enable	
₩P N	-				Comment	
O MPLS P					Сору	
JI Houting	-				Remove	
System P						
👳 queues				disabled		
- Files						
	-					
New Terminal						
Dot1X	-					
MetaROUTER	-					
Partition	-					
🛐 Make Supout.rif	-					
🚫 New WinBox						
🔣 Exit						
×						
🞽 💷 Windows 🛛 🗅						
Vin						
>						
ö						
e						
Inc						
Ř	4 items (1 selected)					

Setting Ip Gateway ISP 2

Pilih Menu di Mikrotik IP >> Address Isi Address 192.168.18.3/24 Network 192.168.18.0.1 Interface ether2 (Isp 2)

Session Seconds Das						
Safe Mode	Session: E4:8D:8C:AC:16:32					
🏏 Quick Set	Address List					
CAPSMAN	+ - 🖌 🗶 🗖 🍸			Address <192.168.18.3/24>		Find
Interfaces	Address	A Network	Interface	Address: 192.168.18.3/24	ΠΚ	▼
🔉 Wireless	;;; lsp 1	100100100	- 	Network: 19216818.0		
💥 Bridge	X P 192.168.18.2/24	192.168.18.0	ether1 (isp 1)		Cancel	
늘 PPP	× + 192.168.18.3/24	192.168.18.0	ether2 (isp 2)	Interface: ether2 (isp 2)	Apply	
🙄 Switch	D 132.100.10.23/24	192.100.10.0	ethert (isp 1)			
°T, Mesh	+ 192.168.100.1/24	192.168.100.0	ether3 (lokal)		Enable	
∰ IP ►					Comment	
O MPLS ►					Сору	
J\$ Routing ►					Bemove	
System ►	-				Homovo	
🙅 Queues	-			disabled		
Files						·
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ADIUS						
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	-					
Make Superdail	-					
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	4 items (1 selected)					

Setting NAT untuk ISP 1 dan ISP 2

Pilih Menu di Mikrotik IP >> Firewall >> NAT

🔍 🍽 🔰 Safe Mode 📔	Session: E4:8D:8C:AC:16:32	2															
💓 Quick Set	Firewall																
CAPSMAN	Filter Bules NAT Man		Service Ports	Connections	Address List	s Lauer7 Pro	tocole										
Interfaces			Jervice Forts		Address List	a Layent To	00013										
♀ Wireless		Y (0 R	eset Counters	🕓 Reset A	All Counters										Find	all	
💥 Bridge	# Action Chain	Src. Ad	ddress Dst. A	Address Proto	o Src. Port	Dst. Port I	n. Inter Out. Ir	t In. Inter	. Out. Int	Src. Ad	Dst. Ad	Bytes	Packets				
🏣 PPP	U all mas srcnat											3819.6 KiB	9 443				
🙄 Switch	1 V Minoo oronot						ether1	(0 B	0				
📲 Mesh	ARP						- Marca 2	6				0.0	0				
🐺 IP 🗈 🗅	Accounting						ether2	l				UB	U				
O MPLS ►	Addresses																
📑 Routing 🛛 🗅	Lloud																
🔯 System 🛛 🗅	DHUP Llient																
🍨 Queues	DHCP Kelay																
📔 Files	DHCP Server																
🗒 Log	DINS																
RADIUS	Hotopot																
🗙 Tools 🛛 🗅	IPago																
🗙 Tools 🛛 🗅 🔤 New Terminal	IPsec Kid Control																
X Tools P Mew Terminal Ot1X	IPsec Kid Control																
Tools Tools New Terminal Oot1X MetaROUTER	IPsec Kid Control Neighbors Packing																
Tools New Terminal Oot1X MetaROUTER Partition	IPsec Kid Control Neighbors Packing Pool																
Tools New Terminal Ot1X MetaROUTER Partition Make Supout.rif	Hotspor IPsec Kid Control Neighbors Packing Pool Routes																
Tools Tools New Terminal Ot1X MetaROUTER Partition Make Support.rif New WinBox	Hotspor IPsec Kid Control Neighbors Packing Pool Routes SMB																
	Hotspor IPsec Kid Control Neighbors Packing Pool Routes SMB SNMP																
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Tools Tools Tools Tools To	IPsec Kid Control Neighbors Packing Pool Routes SMB SNMP SSH Setvices																
Tools Tools Tools Tools To	IPsec Kid Control Neighbors Packing Pool Routes SMB SNMP SSH Services Settinas																
Tools Tools New Terminal Dot1X MetaROUTER Partition Make Supout nf New WinBox Exit Windows New Windows	IPsec Kid Control Neighbors Packing Pool Routes SMB SNMP SSH Services Settings Socks																
Tools Tools New Terminal Dot1X MetaROUTER Partition Make Supout nf New WinBox Exit Windows	IPsec Kid Control Neighbors Packing Pool Routes SMB SNMP SSH Services Settings Socks TFTP																
	IPsec Kid Control Neighbors Packing Pool Routes SMB SNMP SSH Services Settings Socks TFTP Traffic Flow																

Setting NAT untuk ISP 1 dan ISP 2

👟 admin@E4:8D:8C:AC:16:32 (MikroTik) - WinBox (64bit) v6.49.10 on RB951Ui-2HnD (mipsbe

General Advanced Extra Action Statistics

ether2 (rsp 2)

Session: E4:8D:8C:AC:16:32

Chain:

Src. Address:

Dst. Address:

Protocol

Src. Port:

Dst. Port:

Any. Port:

In. Interface:

Out. Interface:

In. Interface List:

Out. Interface List:

Packet Mark

Routing Mark:

Routing Table:

Connection Type

disabled

Connection Mark:

ession Settings Dashboard

Quick Set

Interfaces

Wireless

👯 Bridge

PPP

Switch

. Mesh

MPLS

🖈 Routing

Suster

🐢 Queue:

🗐 Log 💡 RADIUS

(Tools

Dot1X

🖼 New Termina

💻 MetaROUTEF 🔔 Partition

👌 Make Supout rif

⊙ New WinBox Exit

255 IP

Pilih Menu di Mikrotik IP >> Firewall >> NAT >> Tekan Tanda + Isikan Out Interface untuk ether 1 (Isp 1) untuk ether 2 (Isp 2)

ether 1 (lsp 1)

dmin@E4:8D:8C:A0 ion Settings Da	:1632 (MikroTik) - WinBox (64bit) v6.49.10 on RB951Ui-2HnD (mipsbe) Itheard		- 0
Cafe Mode	Session [E480.8CAC.16.32]		
🖌 Quick Set	NAT Rule O		[
🔉 CAP\$MAN	General Advanced Extra Action Statistics		OK.
Interfaces	Chair Grond		Cancel
Wireless			
🗧 Bridge	Da Adues		Apply
	Dst. Address:	`	Enable
E Switch	Protocol	•	Comment
s IP	Sic. Port	.	Conu
MPIS N	Dst. Port	Ŧ	Lopy
Bouting	Any, Pott	-	Remove
Svstem		•	Reset Counte
Queues		Z A	Reset All Coun
Files			
Log	In. Interface List	•	
P RADIUS	Out. Interface List	-	
🔀 Tools 🛛 🗎	Parket Mate	•	
💵 New Terminal		-	
🚸 Dot1X			
MetaROUTER	noung wark	*	
Partition	Houting Lable:		
Make Supout.nf	Connection Type:	•	
New WinBox			
- Windows			



٥

OK

Cancel

Apply

Enable

Comment

Сору

Remove

Reset Counters

leset All Counters

₹ ▲

ы×

Setting Mangle

Ы

 \times

Pilih Menu di Mikrotik IP >> Firewall >> Mangle >> Klik Tanda +

Sadmin@E4:8D:8C:AC:16:32 (MikroTik) - WinBox (64bit) v6.49.10 on RB951Ui-2HnD (mipsbe)

Session Settings Da	shboard												
🍤 💜 🛛 Safe Mode	Session: E4:8D:8C:AC:16:32	2											
🗾 🏏 Quick Set	Firewall												ы×
	Filter Bules NAT Mano	le Baw Service Ports	Connections Address Lists	Lauer7 Protocol	le								
Interfaces				Edych i fotocol	10								
🔉 Wireless	+ - / × 4	Reset Counters	s Co Heset All Counters								Find		•
💢 Bridge	# Action		Chain	Src. Address	Proto Src. Port	Dst. Port	In. Interface	Out. Int	In. Inter C	Dut. Int Src. Ad.	Dst. Ad Bytes	Packets	; ▼
🛓 🛓 PPP	0 X 🖋 mark connect	tion	prerouting				ether3 (lokal)					0 B	0
🙄 Switch	ADD											0.0	0
* Mesh	Accounting	ion	prerouting				ether3 (lokal)					UB	U
P 🗄 🗈			prerouting				ether3 (lokal)					0 B	0
MPLS N	Cloud		prorouting				other? (lok al)					0 P	0
C Routing ►	DHCP Client		prerodung				ethers (lokal)					0.0	0
System P	DHCP Relay												
🐙 Queues	DHCP Server												
Files	DNS												
	Firewall												
	Hotspot												
New Terminal	IPsec												
Dot1X	Kid Control												
MetaBOUTER	Neighbors												
Partition	Packing												
🛐 Make Supout.rif	Pool												
🕥 New WinBox	Routes												
🛃 Exit	SMB												
×	SNMP												
🔏 💻 Windows 💦 🗅	SSH												
/in	Services												
5	Settings												
SO	TETR												
U U	Traffie Eleve												
nt													
S	Web Provu												+
	WED Floxy												

Mangle ISP I (Mark Connection)

fangle Rule <>			🗉 🗵
General Advanced	Extra Action Statistics		OK
Chain:	prenouting	Ŧ	Cancel
Src. Address:		•	Apply
Dst. Address:		•	Enable
Protocol:		•	Comment
Src. Port		-	Commone
Dst. Port		-	Copy
Any. Port		Ŧ	Hemove
In. Interface:	ether3 (loka)		Reset Counters
Out. Interface:		•	Reset All Counters
In. Interface List		•	
Out. Interface List		•	
Packet Mark:		•	
Connection Mark:		-	
Routing Mark:		•	
Routing Table:		-	
Connection Tupe:		-	
Connection State:		Ţ	
Connection NAT State:		•	

disabled

-

1000000

ngle Rule <>					E
eneral Advanced Extr	a Action Statistics				OK
Src. Address List: [•	Cancel
Dst. Address List:				•	Apply
Layer7 Protocol:				•	Enable
Content:				•	Comment
Connection Bytes:				•	Сору
Connection Rate:				•	Remove
r Connection Classifier:	stc address and port	₹:2	/0		Reset Counte
SIC. MAL Address:					Reset All Count
Out. Bridge Port:				•	
In. Bridge Port:				-	
In. Bridge Port List:				•	
Out. Bridge Port List:				•	
IPsec Policy:				•	
TLS Host:				- -	
Ingress Priority:				•	
Priority:				•	
DSCP (TOS):				•	
TCP MSS:				.	
Packet Size:				•	
Random:				-	
TCP Flags					
 ICMP Options 					

disabled



ACCOUNT.



Mangle ISP 2 (Mark Connection)

langle Rule <>			E ×
General Advanced I	Extra Action Statistics		OK
Chain:	prerouting	Ŧ	Cancel
Src. Address:		•	Apply
Dst. Address:		•	Enable
Protocol:		•	Comment
Src. Port: [-	Сору
Dst. Port:		•	Remove
Any. Port	T	- -	Reset Counters
Out. Interface:	■ concist (onca)	÷	Reset All Counters
lu luterte e l'ite [_	
Out Interface List		÷	
Packet Mark:		1	
Bouting Mark:		Ţ	
Routing Table:		-	
Convertion Tores		_	
Connection Type.		Ţ	
Connection NAT State:		-	

disabled

Mangle Rule <>		
General Advanced Extra Action Statistics		OK
Src. Address List:		Cancel
Dst. Address List:		- Apply
Layer7 Protocol:		▼ Enable
Content:		
Connection Bytes:		▼ Сору
Connection Rate:		▼ Remove
Per Connection Classifier: 🔲 src address and port	₹ :2 /1	Reset Counters
Src. MAC Address:		▼ Beset All Counters
Out. Bridge Port:		
In. Bridge Port		▼
In. Bridge Port List:		
Out. Bridge Port List:		▼
IPsec Policy:		▼
TLS Host:		▼
Ingress Priority:		▼
Priority:		▼
DSCP (TOS):		▼
TCP MSS:		
Packet Size:		▼
Random		▼
-▼- TCP Flags -▼- ICMP Dations		
IPv4 Options:		_
		•

Reset All Counters

Mangle Rule ↔	6
General Advanced Extra Action Statistics	OK
Action Insk connection	Cancel
	Apply
Log Prefix	Enable
New Connection Mark: [lsp2	Comment
✓ Passtnough	Сору
	Remove
	Beset Counters



Mangle ISP I (Mark Routing)

Aangle Rule 🗇		B
General Advanced Extra Action Statistics		ОК
Chain: precoving	Ŧ	Cancel
Src. Address.	•	Apply
Dat Address:	▼	Enable
Protocot		Comment
Src. Port		Conv
Dat. Port:	•	Bemove
Any. Port		Beset Counters
In. Interface:ether3 (loka)	₹ ▲	Reset All Counter
Out. Interface:		The set Air Counter
In Interface List	▼	
Out. Interface List:	▼	
Packet Mark:		
Connection Mark: 🗌 Isp 1	₹ ▲	
Routing Mark:	▼	
Routing Table:	▼	
Connection Type:	▼	
Connection State:		
Connection NAT State:	▼	

Mangle Rule ⇔		
General Advanced Extra Action Statistics		OK
Action: Imark routing	Ŧ	Cancel
		Apply
Log Prefix	•	Enable
New Routing Mark: [ke lsp 1	Ŧ	Comment
Passtrough		Сору
		Remove
		Reset Counters
		Reset All Counters
disabled		

Mangle ISP 2 (Mark Routing)

langle Rule <>		⊡ ×	Mangle Rule 🔿	Ξ×
General Advanced	Extra Action Statistics	OK	General Advanced Extra Action Statistics	OK
Chain:		Cancel	Action: mark routing	Cancel
Src. Address:		Apply		Apply
Dst. Address:	I▼	Enable	Log Prefix	Enable
Protocol:		Comment	New Bouting Marke Like Jan 2	Comment
Src. Port:		Сору	Pesthough	Сору
Dst. Port:		Remove		Remove
Any. Port:		Reset Counters		Reset Counters
Out Interrace:	eries (oka)	Reset All Counters		Reset All Counters
dut intendee.				
In. Interface List:				
out, mienace List.				
Packet Mark:		1		
Connection Mark: Bouting Mark:	ip2			
Routing Table:				
Connection Tupo:				
Connection State:				
Connection NAT State:	· ·			
			disabled	

Routing Gateway ISP I dan ISP 2

Pilih Menu di Mikrotik IP >> Routes >> Klik Tanda + Isikan Gateway masing – masing ISP 1 dan ISP 2.

admin@192.168.100.1 (Session Settings Dashi	MikroTik) - WinBox (64) ooard	it) v6.49.10 on RB951Ui-2HnD (mipsbe)			– 0 X	Route < 0.0.0.0/0>	,				
🛇 💜 🛛 Safe Mode 🛛 S	ession: 192.168.100.1										
💓 Quick Set	Route List					General Attribu	ites				l nk ll
CAPSMAN	Routes Nexthops Ru	les VRF									
Interfaces	+ - 🗸 🗙 🗅	T			Find al 🔻	Det Address:	0.0.0.0/0				Cancel
Wireless Bridge	Dst. Address	/ Gateway	Distance Routing Mark	Pref. Source	▼	DSt. Address.	0.0.0/0/0				Cancer
2= PPP	;;; lsp 1 & lsp 2	100 100 000 1	1			Cotourour	1021002001	-	rapahable other1 (isp 1)	▲	
T Switch		132.100.200.11eachable etterr (isp.1); 132.100.201.11eac	. 1			dialeway.	132.100.200.1	\	reachable etherr (ispiri)	v	Apply
°∏° Mesh	ARP	192.168.200.1 reachable ether1 (isp 1)	1 Kelsp1				102.100.201.1	-	reachable attac2 (see 2)	▲	
IP 🕨	Accounting	192.168.201.1 reachable ether2 (isp 2)	1 Kelsp 2				192.168.201.1	•	reachable etherz (Isp 2)		Dirable
MPLS P	Cloud) ether3 (lokal) reachable ether1 (isp.1) reachable	0	192.168.100.1							Disable
Custom N	DHCP Client) ether2 (isp 2) reachable	0	192.168.201.3		Check Gatewar					
System	DHCP Relay					CHECK Gateway.				•	Comment
Files	DHCP Server					Tupo:	unio pot			-	
🚊 Log	DNS					rype.	unicast			•	Copu
RADIUS	Firewall										
🔀 Tools 🛛 🖻	Hotspot IPsec					Distance	1				D
Mew Terminal	Kid Control					Biotarioo.					Remove
WebsPOUTER	Neighbors					Scope	30				
Partition	Packing					Scope.	50				
Make Supput.ni	Pool					Target Scope:	10				1
🔇 New WinBox	Routes					i aiget scope.	10				
🛃 Exit	SMB					Deutine Meder					
ő	SSH					Houdry Mark.				·	
Windows 🗅	Services					Dest Courses					
	Settings					Fref. Source:				· · · · · · · · · · · · · · · · · · ·	
2 2	Socks										
	TFTP										
	Traffic Flow										
P .	UPhP Wak Press					enabled			active	static	
_	web Floxy]					1		1	1	

Pisahkan Gateway ISP I

Pilih Menu di Mikrotik IP >> Routes >> Klik Tanda +

Isikan Gateway

Isikan Distance 1

Isikan Routing Mark ISP 1

Route <0.0.0/0>		
General Attributes		ОК
Dist. Address: 0.0.0.0/0		Cancel
Gateway: 192.168.2	00.1 Treachable ether1 (isp 1)	Apply
Check Gateway:		Disable
Type: unicast		Comment
Distance: 1		Сору
Scope: 30		Remove
Target Scope: 10		
Routing Mark: Kellsp 1		▲
Pref. Source:] 🗸
enabled	active static	

Pisahkan Gateway ISP 2

Pilih Menu di Mikrotik IP >> Routes >> Klik Tanda +

Isikan Gateway

Isikan Distance 1

Isikan Routing Mark ISP 2

Route <0.0.0/0>	
General Attributes	ОК
Dist. Address: 0.0.0.0/0	Cancel
Gateway: 192.168.201.1	Apply
Check Gateway:	Disable
Type: unicast	Comment
Distance: 1	Сору
Scope: 30	Remove
Target Scope: 10	
Routing Mark: Kellsp 2 🗸 🔺	
Pref. Source:	
enabled active static	

Hasil Speed Tes untuk Load Balancing 2 ISP (Internet Service Provider)

🔘 admin@192.168.100.1 (MikroTik) - WinBox (64bit) v6.49.10 on RB951Ui-2HnD (mipsbe)

Settings Dashboard

Session

– 0 X

Session: 192.168.100.1 KO I C⁴ Safe Mode ы× 💓 Quick Set Interface List CAPSMAN Interface Interface List Ethernet EoIP Tunnel IP Tunnel GRE Tunnel VLAN VRRP Bonding LTE 📖 Interfaces T 400 Detect Internet **-**+ -🔟 Wireless △ Type. Actual MTU L2 MTU Tx Bx. Tx Packet (p/s) Rx Packet (p/s) FP Tx FP Bx FP Tx Packet (p/s) | FP Rx Pa 🔻 Name 💥 Bridge 🚸 ether1 (isp 1) Ethernet 1500 1598 2.8 Mbps 25.5 Mbps 1 507 2 228 4.1 Mbps 24.3 Mbps 1 603 🏣 PPP Ethernet 1598 796.5 kbps 25.8 Mbps 1 505 2131 740.7 kbps B 🚸 ether2 (isp 2) 1500 25.2 Mbps 1 487 🙄 Switch B 🚸 ether3 (lokal) 1598 51.3 Mbps 3.7 Mbps 4 359 3 020 4 260 Ethernet 1500 49.6 Mbps 4.9 Mbps 🚸 ether4 Ethernet 1500 1598 0 bps 0 bps Π 0 0 bps 0 bps 0 🐮 Mesh 🚸 ether5 Ethernet 1500 1598 0 bps 0 bps 0 0 0 bps 0 0 bps IP 1600 0 0 🔒 wlan1 Wireless (Atheros AR9. 1500 0 bps 0 bps 0 0 bps 0 bps MPLS 😢 Routing 💽 System 👧 Queues 📄 Files 🗏 Log RADIUS 🔀 Tools 📼 New Terminal 🚸 Dot1X 🌉 MetaROUTER 🦺 Partition 陷 Make Supout.rif 🕓 New WinBox 🛃 Exit 💻 Windows • + 6 items

Hasil Speed Tes untuk Load Balancing 2 ISP (Internet Service Provider)

🔘 admin@192.168.100.1 (MikroTik) - WinBox (64bit) v6.49.10 on RB951Ui-2HnD (mipsbe)

– 0 X

Session Settings Dashboard

🔊 🍳 🛛 Safe Mode	Session: 19	92.168.100.1											
🏏 💓 Quick Set	Interface Li	ist											
🔉 CAP\$MAN	Interface	Interface List	Ethernet EoIP Tunnel	IP Tunnel GF	RE Tunnel VI	AN VBBP Bonding LTE							
🛤 Interfaces				7									The st
🔉 Wireless			Uetect Internet										Fina
💥 Bridge	N.	ame 🔨 🔨	Type	Actual MTU L	2 MTU Tx	Bx 200 C Marci	10.0 Miles	'x Packet (p/s)	Rx Packet (p/s)	FP Tx	FP Bx	FP T	(Packet (p/s) FP Rx Pa ▼
🏣 PPP	B 🔞	ether1 (isp 1)	Ethernet	1500	1598	363.6 KDps 1846 1 kbps	64.7 Mbps	3 50	+ 103 2 5.34	9 5	323.7 KDps 1734.1 kbps	63.9 Mbps	3 505
🕎 Switch	B 🔅	ether3 (lokal)	Ethernet	1500	1598	77.5 Mbps	2.2 Mbps	6 40	9 418	9	76.5 Mbps	2.0 Mbps	6 336
T. Mesh	•	> ether4	Ethernet	1500	1598	0 bps	0 bps)	0	0 bps	0 bps	0
255 ID	×	> ether5	Ethernet	1500	1598	0 bps	0 bps	t)	0	0 bps	0 bps	0
		y wlan1	Wireless (Atheros AR9	1500	1600	0 bps	0 bps		ו	0	0 bps	0 bps	0
T Bouting													
Sustem	N												
Queues													
Files													
🚊 Log													
RADIUS													
🔀 Tools													
🔤 New Terminal													
🚸 Dot1X													
💻 MetaROUTER													
🦺 Partition													
Make Supout.ril													
S New WinBox													
Exit	_												
	N												
M													
S													
5													
te													
00	•												•
Ř	6 items												

Hasil Speed Tes untuk Load Balancing 2 ISP (Internet Service Provider)

Ð \times 🕓 admin@192.168.100.1 (MikroTik) - WinBox (64bit) v6.49.10 on RB951Ui-2HnD (mipsbe) Session Settings Dashboard Session: 192.168.100.1 ю (e Safe Mode ы× 💓 Quick Set Interface List 🔟 CAPSMAN Interface Interface List Ethernet EoIP Tunnel IP Tunnel GRE Tunnel VLAN VRRP Bonding LTE 💷 Interfaces T Detect Internet Find **+** ₹ ******* 🔟 Wireless Rx Packet (p/s) FP Tx Packet (p/s) FP Rx Pa 🔻 Actual MTU L2 MTU Tx Bx. Tx Packet (p/s) FP Tx FP Bx Name Туре 💥 Bridge 1 922 1598 634.4 kbps 23.2 Mbps 1 212 24.4 Mbps 1 257 R 🚸 ether1 (isp 1) Ethernet 1500 616.3 kbps 🏣 PPP B 🚸 ether2 (isp 2) Ethernet 1500 1598 1215.9 kbps 43.9 Mbps 2 313 3 625 1151.9 kbps 45.0 Mbps 2 342 🙄 Switch R 1598 1853.6 kbps 5 552 3 530 5 753 🚸 ether3 (lokal) Ethernet 1500 67.2 Mbps 69.4 Mbps 1771.4 kbps 🚸 ether4 Ethernet 1500 1598 0 bps 0 bps 0 0 0 bps 0 bps 0 📲 Mesh Ethernet 0 🚸 ether5 1598 0 bps 0 bps 0 0 0 bps 1500 0 bps 🐺 IP 😝 wlan1 Wireless (Atheros AR9.. 1500 1600 0 bps 0 bps 0 01 0 bps 0 bps 0 MPLS 对 Routing 🔯 System 👧 Queues 📄 Files Log RADIUS 💥 Tools 📼 New Terminal 🚸 Dot1X MetaROUTER 🦺 Partition 🔈 Make Supout.rif 🚫 New WinBox 🛃 Exit 💻 Windows • ٠

6 items