# Mikrotik

Fonte: http://under-linux.org/wiki/index.php/Mikrotik

Guia passo-a-passo do Mikrotik

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# Introdução

Busquei neste passo a passo, ajudar, de certa forma, aqueles que sentem dificuldade para realizar simples tarefas neste SO, Mikrotik. Basicamente a estrutura de todo este passo-a-passo é a fácil execução dos procedimentos, orientados por simples textos e imagens.

Agradeço a todos, que colaboraram ou colaboram direta ou indiretamente pela realização deste.

É expressamente proibida a VENDA ou qualquer outra forma de remuneração por meio deste material. É permitido divulgar, colaborar, inserir artigos ou correções neste material.

ATENÇÃO: É GRÁTIS!! TUDO QUE ESTÁ AQUI É GRÁTIS!! LEMBRE-SE, DAI DE GRAÇA O QUE RECEBEU DE GRAÇA!!! Desenvolvi este manual passo-a-passo, para auxiliar a todos iniciantes ou não deste excelente sistema operacional para roteadores.

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# Como fazer NAT no Mikrotik

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Na aba "ACTION", escolha em "ACTION", a opção "MASQUERAD".



PRONTO!! Seu NAT está perfeitamente configurado. [editar]

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Crie uma nova "ARP" (botão "+")

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Digite o IP da máquina a qual quer amarrar, o MAC ADDRESS e a INTERFACE a qual a máquina será ligada.

Em COMMENT, dê o nome desta ARP, como no exemplo acima.

### Acesse o menu, INTERFACE





Como último procedimento, você deve habilitar em sua interface, o ARP para reply-only.

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# Configurando o WEB-PROXY

Acesse o menu IP, WEB-PROXY



### Clique no botão "SETTINGS"

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Configure de acordo com suas necessidades...

SRC-ADDRESS = Deixe em branco

PORT = Escolher a porta do seu web-proxy

TRANSPARENT PROXY = Deixe marcado para proxy transparente

PARENT PORT = Deixe em branco

PARENT PROXY PORT = Deixe em branco

CACHE ADMINISTRATOR = Deixe como está

MAXIMUM OBJECT SIZE = Deixe como está

CACHE DRIVE = Deixe como "system"

MAXIMUM CACHE SIZE = Define o tamanho do seu cache, varia de acordo com o tamanho do seu

#### HD

### MAXIMUM RAM

CACHE SIZE = Define o tamanho máximo de sua memória RAM para o cache

Após configurar estes parâmetros, aperte a tecla "ENABLE"

Após configurar estes parâmetros, aperte a tecla "ENABLE"

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O segundo passo para nosso WEB-PROXY funcionar é criar um regra para redirecionar as requisições primeiramente para o proxy, para isso:

Acesse IP, FIREWALL



Escolha a aba "NAT"

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### Crie uma nova regra (botão "+")

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Crie a regra da seguinte forma:

- CHAIN = DSTNAT
- PROTOCOL =  $6 (TCP)^*$
- DST. PORT = 80
- IN. INTERFACE = INTERFACE DOS CLIENTES

Vá na aba "ACTION"

Adam NAT Mangle 1 Action Action I managemate EDPECDIMANENTO 1 I method EDPECDIMANENTO 1 -1 defred -1 defred	Invice Parts Connections 3 80 Reset Counters 60 Res Duan INAT Borlin Connecy 5000 General Advanced Estas Action redirect Tis Parts 3128	Addess Lints Int Ad Counters Sic Addess Sic, Port Ins Inter Action Statistics	Dit Add	Det. Port	Dut Int Pro	а., Вулек 25.5 М.В	Fackets 410 118	telic 💌
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Escolha em "ACTION" a opção "REDIRECT" e em "TO PORT" escolha a porta do seu proxy (definida anteriormente no começo deste tópico).

É interessante realizar uma regra para cada interface de assinantes. Neste caso como possuo duas interfaces (LAN/WLAN), criei duas regras, uma para cada interface.

É importante criar uma regra de bloqueio externo ao web-proxy. Caso você não crie esta regra, ela sobrecarregará o seu proxy, travando até mesmo seu servido. Siga abaixo:



Acesse o menu IP, FIREWALL

Acesse a aba "FILTER RULES"

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## Crie uma nova regra (botão "+")

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Segue a configuração:

- CHAIN = INPUT\*
- PROTOCOL = 6 (TCP)
- DST PORT = PORTA DO SEU WEB-PROXY
- IN. INTERFACE = INTEFACE DE SAÍDA (LINK DE INTERNET)

Acesse a aba "ACTION"

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	0 × 00p	howard	10.0.15		6 Repl	08		
		State Mill	10.0 m is		K Ivel			

Em "ACTION" escolha a opção "drop".

EM COMMENT você pode dar um nome a regra, que neste caso foi apelidado de "BLOQUEIO DO PROXY EXTERNO".

Com este passo-a-passo, você criou e habilitou o seu web-proxy e também tornou mais eficiente,

bloqueando o acesso externo a ele.

[editar]

# Controle de banda



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- NAME = Nome do "dono" da configuração Nome do cliente
- TARGET ADDRESS = IP que irá controlar a banda
- TARGET UPLOAD MAX LIMIT = Taxa de upload (Colocar "k" Minúsculo no final)
- TARGET DOWNLAOD MAX LIMIT = Taxa de download (Colocar "k" minúsculo no final)

Controle de banda concluído. Somente isso é necessário.

[editar]

# Acesso remoto a outro Mikrotik

PS: Para ter acesso a rádios AP em sua rede, você deverá habilitar a função "ATIVAR GERENCIAMENTO PELA PORTA WAN" do seu rádio.

Simples. Basta criar três regras no firewall. Segue abaixo:

Acesse o menu IP, FIREWALL

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Services					
Packing					
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#### Clique na aba "NAT"

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Crie uma nova regra (botão "+")

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Siga os procedimentos de configuração abaixo:

- CHAIN = DTSNAT
- DST. ADDRESS = Endereço IP do MK principal
- PROTOCOL = 6 (TCP)
- DST. PORT = 4040 (Porta padrão do Firewall)

#### Abra a aba "ACTION"

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Siga as configuração abaixo:

- ACTION = DTSNAT
- O ADDRESS = Endereço IP do AP que deseja acessar.
- TO PORT = Porta de acesso do AP

Confirme e dê um nome em COMMENT para sua regra.

ATENÇÃO: Se o AP que você deseja acessar for um outro AP Mikrotik, você deverá escolher a porta padrão TELNET (23). Se for um AP rádio, escolha a porta padrão HTTP (80) ou outra escolhida no rádio.

Você deverá criar uma segunda regra

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Repetindo o mesmo procedimento acima, mas desta vez, alterando apenas o protocolo para 17

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Nesta regra, você irá definir um endereço IP para seu AP. Verifique com sua operadora quais endereços IP você tem e quais estão sobrando.

Cria a regra como abaixo:

- CHAIN = DTSNAT
- DST. ADDRESS = Endereço IP livre, a qual será atribuído ao seu rádio ou AP MIKROTIK.
- PROTOCOL = 6 (TCP)
- DST. PORT = Porta de acesso ao AP ou rádio. Se você for acessar outro AP pelo WINBOX, selecione a porta 8291 (PORTA PADRÃO DO WINBOX), se você for acessar um rádio, a porta padrão é a 80 ou outra prédefinida do rádio.

Abra a aba "ACTION"

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Nesta aba você irá configurar da seguinte forma:

- ACTION = DST-NAT
- TO ADDRESS = Endereço IP do seu rádio ou AP (endereço de IP da rede interna)

• TO PORT = Porta padrão para o WINBOX (AP MIKROTIK) ou porta padrão para rádios, porta 80 (ou outra definida).

Pronto!!! Para ter acesso a AP MIKROTIK, vá no WINBOX, digite o IP válido definido acima, senha e login. Para ter acesso a rádios, abra o internet explorer, digite o endereço IP válido definido acima... Abrirá um box para senha e login... Digite-as e seja feliz!!!

Não esquecer de adicionar os IP's válidos que serão usados para os rádios na ADDRESS LIST.

Como??

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Crie uma nova lista de endereços (botão "+")

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De acordo com seu link, coloque o novo IP válido, o Ip da "NETWORK e o IP do BROADCAST. Defina também a interface (Neste caso, a interface de saída da internet) [editar]

# Controle P2P (MUITO BOM)

Aqui você irá aprender a controlar (shape) o tráfego P2P, marcando pacotes, facilmente. Basta apenas 4 regrinhas, 2 no firewall e 2 no queue. Então vamos lá:



Acesse o menu IP, FIREWALL

Escolha a aba, MANGLE

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No campo "CHAIN", escolha "PREROUTING". No campo "P2P", escolha "all-p2p". Abra a aba "ACTION"



No campo "ACTION", escolha "MARK CONNECTION". No campo "NEW CONNECTION MARK", dê um nome a sua nova marcação de pacotes (no exemplo, demos o nome de "p2p\_conn". Deixe a opção "PASSTHROUGH" ligada. Confirme.

Crie uma nova regra (botão "+")

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No campo "CHAIN", escolha "PREROUTING". No campo "CONNECTION MARK" escolha a opção com o nome definido acima (no nosso caso foi "p2p\_conn".

Abra a aba "ACTION"



No campo "ACTION", escolha "MARK PACKET", no campo "NEW PACKET MARK", defina outro nome (no nosso caso, ficou como "p2p". Confirme.

Após criar estas duas regras no firewall, será necessário criar mais duas regras no queue. Para isso:

### Abra o menu, QUEUE



Abra a aba "QUEUE TREE"

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Defina de acordo com a figura.

- NAME = Defina um nome para a regra
- PARENT = Escolha "GLOBAL-IN"
- PACKET MARK = Escolha a opção do nome escolhido acima. Aparecerá aqui o nome definido na regra do firewall
- QUEUE TYPE = DEFALT
- PRIORITY = 8
- MAX LIMIT = Define o limite máximo de banda reservado para o P2P. No nosso caso, é um total de 200k para p2p

Confirme...

Crie uma nova regra (botão "+")

Weekers See PPP  Exdge gP  T Roufing Puts Gummer Drivers	e Oueuer I Hearton Oueuer 	Guever Tree Quever Types Counters 06 Reset All Counter Packet Mark Land Ar p2p 0 p2p 0	9 Mar Linit   Pate   Dursued Bytes 2006, 200, 6 & 16.1 r.al 2009, 200, 1 K 0 B	Bytes P 201 0 M B 3 201 0 M B 3	Tackets (5) 152 (5) 163	
PPP P Bidge P Pots C Devens Divers	Nation Parent Parent PSP-Down pbbaling PSP-UP globaling	Countees 00 Receit All Countee Pacher Mark Limit Ar p3p 0 p3p 0	Mar Link Rate Queued Bytes 2006 200 6 k. 18 1 Kill 2006 2001 k. 0 B	Bytes P 2010 Mab 3 2010 Mab 3	fackets 65 152 69 169	
Bidge P P F Roufing F Puts Gumuns Drivers	Name Paret P2P-Down pbballout P2P-UP globallout	Pachet Mak Linit Ar p2p 0 p2b 0	MaxLand Rate Duesed Bytes 2008 200 6 k 161 r.8 2008 200 1 k 0 B	Bytes P 201.0 MB 3 261.0 MB 3	Packets K5 152 K5 169	
9 1 Posts Devens Devens	P3PUP pkbaln	p2p 0 p2p 0	200k 200 5 k. 181 K.8 200k 200 1 k. 0 P	261.0 MB 3	103 112 103 112 109 109	
Routing ? Puts Downers Drivers	P2PUP phonor	0 454	200k 200.1 k. 0.8	261.0 MB 2	69 169	
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Gueues Devers					hanne	
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		General Status	KTA _		DK.	
System - 1		Nate	222.03	Ce	Incel	
Files		Parent	global-out	* 4	colu	
Log		Parket Mark	[13]	-		
SAMP		P BLOCK PLAN	line .	De	Indole	
Users		Gueue Type:	delault	• 0	ADW .	
Radius		Prosty	8	Ren	move	
Tools			12	CRIEG Vill		
New Terminal		Land Ac.	<b>[</b> ]	-bks/s		
Telinot		Max Link	12 200k	bhs/s		
Password		Event Limit:	r [	bits/s		
Certificate		Event Threehold	r l	bits/s		
Make Supork II		Read Town	21			
ISDN Charmels		Course research	1			
Manual		(dualities)				
Exe						

Defina de acordo com a figura.

- NAME = Defina um nome para a regra
- PARENT = Escolha "GLOBAL-OUT"
- PACKET MARK = Escolha a opção do nome escolhido acima. Aparecerá aqui o nome definido na regra do firewall
- QUEUE TYPE = DEFALT
- PRIORITY = 8
- MAX LIMIT = Define o limite máximo de banda reservado para o P2P. No nosso caso, é um total de 200k para p2p

Confirme...

Pronto!!! Moleza!!! Agora o tráfego P2P, será limitado por marcação de pacotes. Esta regra é muito

#### eficiente!!

[editar]

## BACKUP e restauração

Abra o menu, FILES



Para criar uma cópia de backup, clique em "BACKUP"

	-			_	_			-
reduces								
wantes								
PPP.								
hidge								
Routing								
Porta								
Same:		4.0.2						
Deivers		Tile List					<u>ک</u>	
System 11		10 B	Backup Deme					
Sec.		File Name		lipe Size	Crea	tion Time		
.mp		Ham Ta-	2122006-2125-backup	Sector	683.4 K.Ø De	6/12/2006 21 25:20	-	
(AMP				2000		67 167 69999 87 87 19	-	
Joers								
ladu:								
Tools								
Vev Terninal								
Telivet .								
Password								
Certificate								
Aske Support if								
SDN Charrels		494.7 MB of 19.2 G	8 used 1973 hee					
Kanual								
Gail .								
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klar (A 🚜		The second state of the second state	1 3091237994.94,79		THE REPORT OF A PARTY	the second se		

Em "FILE NAME", aparecerá o novo BACKUP. Esta cópia estará armazenada no HD do MIKROTIK. Para copiar este backup em outro computador, clique em "copy" (como na figura) e cole em qualquer pasta no windows.



Para restaurar o seu backup, escolha a cópia desejada na "FILE NAME" e clique em "RESTORE",



Você também poderá restaurar uma cópia de backup, que encontra-se no seu windows, por exemplo. Para isso, no seu sistema operacional, selecione o arquivo do backup e com botão direito do mouse, escolha "COPIAR" (COPY). Vá na janela de backup do seu MIKROTIK e clique em "paste" (como na figura).

como abaixo.



Selecione esta nova cópia do backup (aparecerá na lista) e aperte em "RESTORE"

Invinit OP N	DNT ALVERNE) - Window v2:5:27	
2		
Interfaces		
Washerr		
PPP		
Bidge		
P 1		
Routing		
Parts		
Queues	the second s	
Deivers	_ file list	
System	- D B Basic Retor	
Files	File Name Type Size Creation Time	17 C
Log	MainTe 12122006/2214 backup backup 642/21/8 Dec/12/2006 2214/05     Chybert 0 8 Dec/12/2006 21 405	2
SNMP		
Users		
fladur		
Tools		
New Terminal		
Takut		
Pacoword		
Certificate		
Make Supout II	Contract Stationers and Contra	
ISDN Charmels	495.0 MB of 19.2 GB used _973 hee	
Manual		
Ew		
- 14		
nichar 🖉 😹 🖉 🖬 🖬 🖬	🐮 🕒 🕂 Windows Live Messen 🕴 SEMRES HWALKA. FA 🌒 Servidor não encontra 🖉 mon porta - Pesquisa	
121 122	Although the second state and the second states and the second sta	terca-f

Após realizar a restauração do backup, reinicie o seu MIKROTIK.

PS: Estamos tratando apenas de backup realizados pela "winbox", seja ele remotamente ou no

próprio servidor.

[editar]

# Limitar conexões por cliente

Simplérrimo!! Acesse o menu IP, FIREWALL



Na aba "FILTER RULES", crie uma nova regra (botão "+").

Interfaces	Parenal .							
Automation	the state internation			and and a				
www.	Ferritari NAT Marge	Service Pont	Connections Adde	ee Care				
PPP.	+ * (1)	DO Reset Cou	nters 00 Reset Al	Courtes				static
Biidge	# Action Date	Or Addeed	In m	A	A In . In.	· · · ·	4	
P. 1	2 - BLOQUEIO DO PRIDOVE	CLERING	Firewall Rule <	10881/5		X	1	
Bauten -	X disp input		General Advances	d Esha Action Statutica		OK I	103	
noor g	BLOQUEIO DNS EXTERN	40	100000	A Design Designed Designed		L. UR.		
Pata	X dop input		Dan	lore and	-	Cancel	8	
Queues	X dop rou	10.00	See Address 5	Theens			0	
Dolvers	D BLOQUEIO SSH - POHS	2023	HE MODELL	Junear		ADDA	191	
2000 (1) 110	- REDOUED VIEUS CON	rapos	Dit Addess			Duth	10	
Magaza	X dep vium					Pullete.	0	
Files	X dop vieus		Photocol: [	1000		Connent	0	
Los	22 X dop visus			- Paratra			0	
	K whop vitus		Sic. Part.			Copy	0	
State	X X dop vive		Det Det I			Renave	0	
Users	X dop veus		- UN. P.M				0	
Refer	X drop veus		P2P:		.*		0	
	X dop veus						0	
Tools	X gob Ama		to be address of				0	
New Ternival	X dop veus		er concert		17.1		0	
Taiked	Coop vers		Out. Intentace				0	
A REAL PROPERTY OF A REAL PROPER	Chin Mart						0	
Password	- CONTROLE DE CONECE	A POR OLEN	Parket Mak					
Certificate	Midda farmed	10001	Lanca Lance				0	
Make Township	K and the state	10882	Connection Mark:				0	
make supportie	k drop forward	10003					0	
ISDN Charmels	A drop toward	100.04	Reuting Mark		•		0	
Margani	K dop forward	10.0.05					0	
	K drop forward	10.0.0.6	Connection Shale		*		0	
C.e	X dop toward	100.07			2		0	
	X dop Noved	100.08	Connection Type:		•		0	
	A drop torward	10009					0	
	0 X dop Novead	100.010					0	
	10 Comp foregrd	100011	duation .				0	
	Color Invest	100012			6.Beel	0.0	0	
	a day forward	100014			6 front	0.8	0	
	X dop toward	100.015			6 Bopl	0.8	0	
	Waters forward	100.016			6. Bred	0.0		

Configure da seguinte forma:

- CHAIN = FORWARD
- SRC. ADDRESS = ENDEREÇO DO CLIENTE A QUAL APLICARÁ O LIMITE.
- PROTOCOL = 6 (TCP)

Agora abra a aba "ADVANCED"

Interfaces	C Discould								
Washerr	The Robert Lawy   14	-	an tra Duni	Courses and	and the local data				
000	Contrast Contrast	orge is	erver ram	Connections   Actor	na Lare				
are.	+ *	•	Reset Co	unters 00 Reset A	Courtes				static
Disdge	# Action Div	ain .	Sic. Addres	A	A A	see las		4	
P. 1	ELOQUEIO DO P	HON D	CTERINO	Direval Rule	10001/5	- and the second se	X		
Routing	2 000 P0	EVITEDA:	0	General Advance	d Esha Action Statistics		OK.	64	
Pats	dop in	ul .		Too Address Link			Course .	8	
	X dop inp	ut.		PC ADDITION			Carcel	0	
	ELOQUEIO SSH	PORT 2	2.23	Dut Address List			Acoly		
Devers	X dop inp	ut.						129	
System -1	ELOQUEIO VIRU	IS CONHE	CODOS	Curders.		+	Dusable		
Files	dop vit			Colorest Rates			Connect	0	
	a dop vite			Carriector syst.			and the second second	0	
Log	K alop vin	all .		MAC Address		*	Copy	0	
SMMP	X dop viv	4					Renove	0	
Users	X dop vev	48		Out Bridge Fort			1	0	
Reduc	X drop vity	#1						0	
1. A.	X dop vec	-		In Bridge Plot				0	
1000	A dop vity							0	
New Terminal	X dop vit	10		IPv4 Options:				0	
Telinot	X dop vis	10		105				0	
Passand	🗙 drop Veu			1.0				0	
	CONTROLE DE C	CONDAG	POR CUEN	TOP MSS				-	
Centrolare	H Dop In	the second	10001	Parket Size				9	
Make Supoukil	A dap for	bain	10003					0	
ISDN Charmels	X dop ton	mand	10004	Random				0	
Margan	X dop for	them	10.0.05	CON MILLION IN				0	
	X diop for	ward	10.0.0.6	· TCP Flags	a contraction of the second se	-		0	
Lief	X dop for	base	100.07	1CP Flags	200	크후		0	
	X dop Ion	based	100.08		Vivent TOP Flags			0	
	A dop to	mand .	100.010	- ICMP Colors				0	
	K Xdop for	- base	100.011					0	
	X dop for	ben	10.0.0.12	anenet				0	
	X dop for	mand	100.013			6-Ropi	0.0	0	
	X dep for	hand	10.0.014			6 hopi	08	0	
	0 X drop for	mard	700.015			8-Ropi	08		

Em "TCP FLAGS", escolha a opção "SYN" (este comando é responsável pelo recebimento da requisição de conexão do cliente e também pelo aviso de que a porta está ou não disponível

#### Abra a aba "EXTRA"

	Concession of the second se						
Automation of the second	The second second second		A second second second second				
WARREN	Filter Plutes NAT Mand	e Service Ports	Connections Address Lists				
PPP	+ - + * *	DO Reset Co.	uters 00 Rest All Counters				static
Bisige	a Anton Dain	Con Address	Te n. 1 (n	n			
P 1	X - ELOQUEIO DO FRID	OF EXCLEMING	Frewal Rule <10.0.0.1/>		X	1	-
Bouten F	Kidop input		General Advanced Extra Action St	4.64	( OF	62	
E-1	BLOQUEIO DNS EXT	ERNO			UN.		
Parts	X gob Non		Connection Line		Cancel	a.	
Queues	NOOLED SELL OD	01.95.95	Last [ ]10		director .	0	
Dovers	V den what	111 2023	Network: 122		~~~~	121	
Curtan F	= BLOQUED VIBUS O	INHECODOS	- 11-2		Duable		
	K diop vina					0	
fec.	X dop vius		<ul> <li>Dot Linet</li> </ul>		Connent	0	
Log	A dop visue		• NB		Con	0	
CAMP	X dop vitus		· Tine		cay	0	
17	X dop vive		<ul> <li>Sit: Addess Type</li> </ul>		Renove	0	
Users	A dop year		· Dut Address Tune			0	
Radius	C Cop Vita		- 80			0	
Indu F	dop year		and the second			0	
	X dop vint		<ul> <li>Hotopot</li> </ul>			0	
Kevy Terminal	and the second s		· P Fagnert			0	
Telinot	X dop vive					0	
farment.	🗙 drop Vitus					0	
	CONTROLE DE CON	E-20 POR CLIEN				1	^
Certificate	X dop _ forward	10001				0	
Make Support II	X dop Novead	100.02				0	
SDN Charant	dop forward	10003				0	
	dop toward	50005				a	
farsal.	Cop forward	100.06				0	
Exel	X dop toward	100.07				0	
	X dop lowed	10.0.08				0	
	X drop forward	10.0.0.9				0	
	18 X dop forward	10.0.010				0	
	X dop forward	10.0.011	la and E			0	
	X dop forward	10.0.0.12	The second secon				
	A dop forward	100.013		6.Ropi	0.0	0	
	0 X drop Noveard	100014		6 (100)	08		
	C drop torward	50.0.0.10		6-PCPI	0.0		_
and the second		a second second second	the second se	Lancourrence to more	1	doningo, 17 de disser	ièrs de
Carl Ca	A 11 21 (A)   0	Maryan Padao-a-	passo M P Service não encontrado.	D Editande Miestik - Unde	1 million 1	10.00	22.14
	00mm0 1	and the second s	And the second s			<b>E</b>	****3

Em "CONNECTION LIMIT" / "LIMIT", defina o número de conexões máximas para este cliente.

No campo "NETMASK", defina a máscara 32 (32 significa que a regra será aplicada apenas a este IP) Agora abra a aba "ACTION"

[Imagem:cliente4.png|500px]]

EM "ACTION", escolha a opção "DROP".

Basicamente esta regra libera N conexões simultâneas para o cliente, bloqueando requisições de conexões acima do limite.

Configure de acordo com suas necessidades

PS: Caso deseje aplicar a regra para um range de IPs completo, configure o IP XXX.XXX.XXX.0 e o

NETMASK para 24.

[editar]

## Servidor PPPoE e Cadastro de Clientes

#### Abra o menu PPP

adminit	(POP MONT ALVERNE) - Window v2:927	
bindares		
Washess		
PEP		
Distan		
P 5		
Routing		
Puts		
Queues		
Drivers		
System 111		
Fies		
Log		
SAMP		
Users		
Redut		
Tools		
New Terminal		
Telinot		
Password		
Certificate		
Make Supork II		
ISDN Charmels		
Marsual		
Ent		
3		
2		
thiciar 0 10	🕼 🖲 🛄 41 🕢 👔 Minotik - Moroz 📳 porta 53 - Pesq 🗿 Inagen: Clerte 😰 Servidor rido en 😰 (67	Rando Mirott
	Plefeste Under Datemark2001_ Calcost Raw X3 S gester desn.	aningo duningo

### Clique na aba "PROFILES"

dmini (	(POP MONT ALVERNE) - W	infloor v2.9.27					-10
0							
Interfaces	PPP						5
Waters	Interfaces Secrets Profiles	Interfaces Secure Profiles Active Connections					
PPP							
Bickpr	Alara and a second s	( Local Address	Report Address	Rentine	Only Date		
P 1	e delast	- LOCA MODELL	Prevente Association	inter Line	dela.k		
Routing 1	default-encryption				delaik		
Pots	Coppoe warvian				oriale driale		
Queues					1911		
Dovers							
Sudam							
Fier							
Lon							
DAMP							
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New Terminal							
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marian.							
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	Committee and	And Linearching	Contra and a state of the second	and here	Service Table of the end	Carlos do Participa	

Crie um novo profile (botão "+")

Wanters 1999	Interfaces Secrets Profiles							
PPP		Interfaces Secure Profes Active Connections						
the second se								
Bidge		( I and Address	Design & data and Data I and	4. Dec.				
P 1	* Odrad	Concernances	A A A A A A A A A A A A A A A A A A A	last l	101			
Routing	* editaut-encryption	_	117 Proble cpopoe wil	en Tan>	즈			
Pots	Copoe wavlan SIME		General Links		OK.			
Summer .			Name: popositi	nter	Cancel			
Novers			Local Address		Acoly			
ipstens - 1			Repute Address		Franklin Street			
ies.			And and a second second second		Conment			
ag ga			Incoming Filter:		Copy			
AMP			Outgoing Filter:		Renove			
laers								
ladiut			DINS Server	٠				
ools			WINS Server	4				
Levy Tesmirval			- Use Compression					
10/81			C delault @ no C per					
accended			Use VJ Compression					
And Care and			C delault (F no (C per					
CON Character			Lise Encyption	C				
formed and			detaut in no i per	a secred				
			C default IC no IC set					
~								

Configure este novo profile de acordo com suas necessidades. Basicamente configure assim:

- NAME = Nome do profile.
- USE COMPRESSION = NO
- USE VJ COMPRESSION = NO
- USE ENCRYPTION = NO
- CHANGE TCP MSS = YES

O outros campos deixe em branco, conforme a figura acima.

Confirme e abra a aba "INTERFACES" (na janela PPP mesmo) e clique no botão "PPPoE SERVER".

0		
Interfaces	<b>I</b> PPP	
Wattens	Interfaces Secure Periles Active Conventions	
PPP	DOD 5 Same DOTO Same 1070 Same	
Budge	The line of the line for any start and	
P 5	OR PPPoLin oxio/@cat 0014.28.07 081518 1480 1500	
Routing 1	DR PFPoE in dipargler, 00 4F 62 04 04 12 42 1432 1500	
Puti	DR PPPoE in gage@ca. 004F 62:09. 14 22:36 1412 1500	
Queues	DR PFPoE in native of 5. 00 4F 62 09. 14 22 36. 1432 1500	
Dovers	DN PPPGE N VelagicaL 00 0C 10 00 04 10 1480 1300	
System 1		
Files		
Log		
SNMP		
Usen		
Radius		
Tools		
New Terminal		
Teirot		
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Certificate		
Make Support II		
ISDN Charmels		
Manual		
Ent		
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	Bittanti Inder III. da anna E. Cartillaria I. Samandara	- 0. dame

Na janela "PPPoE SERVER LIST", crie um novo servidor (botão "+")



Configure de acordo com suas necessidades. Basicamente como abaixo:

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#### Parâmetros:

- SERVICE NAME = Nome do servidor PPPoE.
- INTERFACE = Interface com que este servidor irá trabalhar.
- MAX MTU = Taxa máxima de transmissão. Basicamente deixe em 1500 para clientes com winxp pra cima e 1452 para clientes com win98 pra baixo e clientes que utilizam discador RASPPPOE.
- MAX MRU = Taxa máxima de recepção. Configurar conforme acima.
- KEEPALIVE TIMEOUT = Tempo máximo quem uma conexão retornará um erro. Basicamente deixe em 10.
- DEFALT PROFILE = Lembra do profile que você criou? É aqui que todas estas configurações ficarão incorporados a ele. Basicamente o profile é um atalho de todas estas configurações.
- ONE SESSION PER HOST = Esta opção permite que login e senha de um cliente (cadastrado no servidor pppoe), conecte por vez. Isto é interessante, pois evita que várias pessoas conectem ao mesmo tempo com apenas um login e senha. Deixe marcado.
- MAX SESSION = Define o número máximo de conexões a este servidor. Basicamente deixe em branco mesmo.

• AUTENTICATION = Para haver compatibilidade com todos os serviços de discagem disponíveis, deixe todas marcadas.

Você poderá criar vários servidores PPPoE. Cada um atendendo uma determinada interface e um determinado sistema operacional, como no exemplo abaixo:



Para cadastrar clientes é bem fácil. Após criar seu servidor PPPoE, basta clicar na aba "SECRETS"

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Para criar uma nova conta, aperte no botão "+"

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Configure de acordo com suas necessidades:

- NAME = Login do assinante. Pode conter @xxxxxx.com.br ou não.
- PASSWORD = Senha de acesso.
- SERVICE = Escolha PPPoe.
- CALLER ID = Define qual MAC Adress ficará amarrado esta conexão
- PROFILE = Define o profile que será amarrado esta conexão.
- LOCAL ADRESS = Endereço do Gateway (normalmente a faixa de IP utilizada com final 254)
- REMOTE ADRESS = Endereço IP desta máquina (preferencialmente dentro da faixa de IP do LOCAL ADRESS).
- ROUTERS = Define roteamento. Deixar em branco.
- LIMITY BYTES IN = Limita o número de bytes de entrada. Deixar em branco.
- LIMITY BYTES OUT = Limita o número de bytes de saída.

Confirme tudo e pronto. No computador do cliente basta criar uma conexão PPPoE com esta senha e

login e mandar conectar.

[editar]

## Amarrar faixa de IP no DHCP

[editar]

## Configurando o HOTSPOT

Para configurar um Hotspot utilizando o Winbox, é necessário que as interfaces estejam configuradas e online. Vá para o menu IP -> Hotspot:



Em seguida, clique em Setup. As imagens a seguir mostram as principais telas de configurações:

Hotspot Setup	Hotspot Setup
Select interface to run HotSpot on	Set HotSpot address for interface
HotSpot Interface: Local	Local Address of Network: 192.168.0.1/24
	Masguerade Network
1 Back Next Cancel	2 Back Next Cancel
Hotspot Setup	Hotspot Setup
Set pool for HolSpot addresses	Setup DNS configuration
Address Pool of Network: 192.168.0.2-192.168.0.254	
3 Back Next Cano	cel Back Next Cancel

Na imagem 1, você irá selecionar em qual interface estão os clientes do Hotspot. Na imagem 2, você pode aceitar o endereço padrão da interface ou atribuir um outro para o Hotspot. Na imagem 3, escolha a faixa de IPs que os cliente usarão e por último, defina um DNS válido para esta rede.

Ao final destes passos, você terá que criar o primeiro usuário para acessar o Hotspot. O próprio assitente sugere o usuário Admin, digite uma senha para ele e o assistente concluirá a configuração.

Agora, você já pode testar, dentro da rede local, basta tentar acessar qualquer endereço externo, digite o usuário e senha e pronto.

[editar]

# Configurações dos cartões Wireless

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## SUB-MENU SYSTEM





















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## Instalação do MIKROTIK (Link Dedicado)

[editar]

## Instalação do MIKROTIK (ADSL) - Modem BRIDGE

[editar]

## Configurando Servidor de Hora Automático

Aqui você irá aprender a configurar servidores NTP (network time protocol) automaticamente no mikrotik, via servidor de internet... Muito útil para quem trabalha com regras baseadas no horário e não pode ter hora errada, adianta ou atrazada.

Primeiro procedimento, abra o menu "NTP CLIENT"



Configure como abaixo:



- MODE Escolha a opção "UNICAST"
- PRIMARY NTP SERVER = 159.148.60.2
- SECONDARY NTP SERVER = 159.148.60.2

Após configurar, aperte o botão "ENABLE"

Abra o menu "CLOCK"



Configure o campo "Time Zone" de acordo com o fuso horário da sua cidade.



Você deve se basear no horário mundial (Greenwich). Aqui no Rio de Janeiro, é -2:00 de diferença. Pronto!! Agora não precisa mais se preucupar com a hora certa do seu sistema!!! [editar]

### Lista de SCRIPTS e AGENDAMENTOS utéis

Lista de Scripts prontos!!

TODOS OS SCRIPTS DEVEM SER INSERIDOS VIA WINBOX NO MENU SYSTEM>SCRIPTS OU VIA "NEW TERMINAL" /system script

#### SCRIPT PARA REBOOTAR AUTOMATICAMENTE

- add name="reboot" source="/system reboot" \
- policy=ftp,reboot,read,write,policy,test,winbox,password

#### SCRIPT PARA PARA WEB-CACHE

- add name="Parar\_Proxy" source="/ip web-proxy set enabled=no" \
- policy=ftp,reboot,read,write,policy,test,winbox,password

#### SCRIPT PARA LIMPAR WEB-CACHE

- add name="Limpar\_Proxy" source="/ip web-proxy clear-cache" \
- policy=ftp,reboot,read,write,policy,test,winbox,password

### SCRIPT PARA RECRIAR (RENICIALIZAR) WEB-CACHE

- add name="Criar\_Proxy" source="/ip web-proxy set enabled=yes" \
- policy=ftp,reboot,read,write,policy,test,winbox,password

### SCRIPT PARA BACKUP AUTOMÁTICO DO MIKROTIK

- add name="backup\_diario" source="/sy ba sav name=mk\_bkp.backup" \
- policy=ftp,reboot,read,write,policy,test,winbox,password

### SCRIPTS PARA HABILITAR E DESABILITAR TODA A BANDA

#### DESABILITA

- add name="queue\_disable" source="/queue simple { disable \[find \
- name=LIBERA\_TUDO\] }" \
- policy=ftp,reboot,read,write,policy,test,winbox,password

#### HABILITA

- add name="queue\_enable" source="/queue simple { enable \[find \
- name=LIBERA\_TUDO\] }" \
- policy=ftp,reboot,read,write,policy,test,winbox,password

### AGENDAMENTOS ÚTEIS

Devem ser aplicados via winbox (menus system>scheduler) ou via "new terminal" em / system scheduler

### AGENDAMENTO PARA REBOOT DE 15 EM 15 DIAS

- add name="reboot" on-event=reboot start-date=nov/15/2006 start-time=06:05:00 \
- interval=4w2d comment="REBOOT DE 15 EM 15 DIAS" disabled=no

#### AGENDAMENTOS PARA MANUTENÇÃO AUTOMÁTICA DO WEB-PROXY (5 em 5 DIAS

- add name="Parar\_Proxy" on-event=Parar\_Proxy start-date=nov/15/2006 \
- start-time=05:00:00 interval=5d comment="" disabled=no
- add name="Limpar\_Proxy" on-event=Limpar\_Proxy start-date=nov/15/2006 \
- start-time=05:03:00 interval=5d comment="" disabled=no
- add name="Criar\_Proxy" on-event=Criar\_Proxy start-date=nov/15/2006 \
- start-time=05:10:00 interval=5d comment="MANUTEN O AUTOM TICA DO \
- WEB-PROXY" disabled=no

### AGENDAMENTO PARA BACKUP AUTOMÁTICO DE 6 EM 6 HORAS

- add name="backup diario" on-event=backup\_diario start-date=jan/16/2007  $\setminus$
- start-time=00:00:00 interval=6h comment="CRIA BACKUP DE 6 EM 6 HORAS" \
- disabled=no

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### LOADBALANCE - Visão Geral e Aplicação

#### Balanceamento de carga

Todo o hardware tem o seu limite, e muitas vezes o mesmo serviço tem que ser repartido por várias máquinas, sob pena de se tornar congestionado. Estas soluções podem-se especializar em pequenos grupos sobre os quais se faz um balanceamento de carga: utilização do CPU, de armazenamento, ou de rede. Qualquer uma delas introduz o conceito de clustering, ou server farm, já que o balanceamento será, provavelmente, feito para vários servidores.

#### Balanceamento de armazenamento (storage)

O balanceamento do suporte de armazenamento permite distribuir o acesso a sistemas de ficheiros por vários discos (software/hardware RAID), pelo que derivam ganhos óbvios em tempos acesso. Estas soluções podem ser dedicadas ou existir em cada um dos servidores do cluster.

- Soluções
- RAID
- Storage Area Network



Figura 1 - Balanceamento de carga (NAT).



Figura 2 - Balanceamento de carga (Direct Routing).

### Balanceamento de rede

O balanceamento da utilização da rede passa sobretudo por reencaminhar o tráfego por caminhos alternativos a fim de descongestionar os acessos aos servidores. Este balanceamento pode ocorrer a qualquer nível da camada OSI.

A Figura 1 sugere a existência de um mecanismo/dispositivo responsável pelo balanceamento (director). Na verdade, ele pode existir sob várias formas, dependendo do(s) serviço(s) que se pretende balancear. Este director serve também de interface entre o cluster de servidores e os clientes do(s)

serviço(s) - tudo o que os clientes conhecem é o endereço semi-público deste servidor. Esta abordagem (clássica) é algo limitada, em termos de escalabilidade, ao número de tramas que o director consegue redireccionar, principalmente devido à velocidade dos buses das placas de rede. Existem, no entanto, outras soluções mais complexas que tiram melhor partido das características do protocolo TCP/IP em conjunto com routing especializado (NAT, IP Tunneling, Direct Routing).

Exemplo Um exemplo de um site a utilizar técnicas de balanceamento de carga é a própria Wikimedia Foundation e os seus projectos. Em Junho de 2004, a carga era balanceada usando uma combinação de:

Round robin DNS, que distribui os pedidos uniformemente para um dos três servidores de cache Squid;

Estes servidores de cache usam os tempos de resposta para distribuir os pedidos para cada um dos sete servidores de páginas. Em média, os servidores Squid já têm em cache páginas suficientes para satisfazer 75% dos pedidos sem sequer consultar os servidores de páginas; Os scripts PHP que formam a aplicação distribuem a carga para um de vários servidores de base de dados dependendo do tipo do pedido, com as atualizações indo para um servidor primário e as consultas para um ou mais servidores secundários.

Soluções (software) Existem soluções que operam exclusivamente em apenas algumas camadas (níveis) do Modelo OSI:

- Nível 4: Linux Virtual Server
- Nível 5/6/7: Zeus Load Balancer

#### Balanceamento de CPU

Este tipo de balanceamento é efectuado pelos sistemas de processamento distribuído e consiste, basicamente, em dividir a carga total de processamento pelos vários processadores no sistema (sejam eles locais ou remotos).

#### \*Fonte: Wikipedia

#### Aplicação:

Tenho visto muitas pessoas confusas, quanto a aplicação do loadbalance... Algums sugerem colocar lo 5 ou 10 links, pelo fato de ser "melhor"... Para que todos possam aproveitar o máximo dos recursos do loadbalance e também não gastar dinheiro desnecessariamente, deixemos claro as seguintes coisas:

Loadbalance, como o próprio nome diz é **"BALANCEAMENTO DE CARGA"** ou seja, divisão de carga da sua rede e entre os links... Muitas pessoas se enganam e acham que loadbalance soma link (1mb + 1mb = 2mb), o que não é verdade;;; Para ter o máximo de desempenho em uma técnica de loadbalance, devemos primeiramente analizar as necessidades de cada rede, para ae sim, criar um loadbalance com o máximo de desempenho para nossa rede...

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### LOADBALANCE - ADSL X ADSL

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## LOADBALANCE - ADSL X LINK DEDICADO

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# LOADBALANCE - DIVIDINDO CARGA DE FORMA PERSONALIZADA ENTRE OS LINKS

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Gráficos em Tempo Real do Mikrotik

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Autor