

Agosto-2013

Caetité-BA

Cenário:



1° Etapa:

Ativar o IPv6 nos roteadores, por padrão fica desativado.

admin@00.00.42.4D.4	Certificates	62 on PE	A122AH (minch	e)		
Valimite obioc.42.ADI.	Clock	OIL OIL IN	ard and a second se	c)		
Safe Mode	Console					Hide Passwords
🔏 Quick Set	Drivers					
Interfaces	Health	-				
🤶 Wireless	History	Pa	okana List			
Bridge	Identity		Charle Fred	Indatas	Eachi A Dischie	
PPP	I FDs	U	Check For	Jpdates	Chable Disable	Uninstall Unschedul
Switch	Liesnee	-	Name	/ Version	Build Time	Scheduled
9-9 Mash	License	1	advanced-	e 6.2	Aug/02/2013 1 Aug/02/2013 1	0:37:21
-La Mesn	Logging	_	e dhcp	6.2	Aug/02/2013 1	0:37:21
in IP ►	Packages 2		Shotspot	6.2	Aug/02/2013 1	0:37:21
🖉 MPLS 🛛 🗅	Password		3 ^d ipv6	6.2	Aug/02/2013 1	0:37:21
Routing	Deste	_	@ mpls	6.2	Aug/02/2013 1	0:37:21
	Ports	_	e ppp	6.2	Aug/02/2013 1	0:37:21
System 1	Reboot 5		Prouting	6.2	Aug/02/2013 1	0:37:21
Queues	Reset Configuration		e secunty	6.2	Aug/02/2013 1	0:37:21
Files	Resources		e wireless	6.2	Aug/02/2013 1	0:37:21
E Log	Routerboard					
< 🥵 Radius	SNTP Client					
🖌 📉 Tools	Scheduler					
📰 New Terminal	Scripts	11	items			
MetaROUTER	Shutdown			_		
Partition	Special Login					
🛛 🛄 Make Supout.rif	Stores					
🚱 🕢 Manual	Users					
🖆 🌉 Exit	Watchdog					

/system packageenable ipv6

Após reiniciar os roteadores o ipv6 e o o OSPFv3 já estarão habilitados e prontos para serem configurados.

2° Etapa:

Criar a interfaces de loopback nos roteadores e um Mac para a interface loopback, pois os últimos 64bits do ipv6 é a parte destinada para a identificação de interface baseada no Mac Address e as interfaces bridge não possuem um MAC, use a opção admin-mac para adiciona-los a bridge.

Roteador1:

/interface bridge

add admin-mac=00:11:11:11:11:11 auto-mac=no name=loopback

0	admin@fe80::20c:42ff	fe5c:ac38%10 (Roteador1) - Win	Box v6.2 on RB493AH	(mipsbe)		_	x
6	C* Safe Mode				🗹 Hid	le Passwords	
8	Image: Control of the sector of the sect	Bridge Bridge Ports Filters NAT H Name / Type	New Interface General STP Statu Name: Type: MTU: L2 MTU: L2 MTU: MAC Address: ARP: Admin. MAC Address:	s Traffic loopback 3 Bridge 1500 enabled 00:11:11:11:11:11 4	Hid	e Passwords	
S WinBox	Tools New Terminal	•					•
uteros	 Partition Make Supout.rif Manual 	0 items					
Ro	Exit		enabled	running	slave		

Roteador2:

/interface bridge

add admin-mac=00:22:22:22:22:22 auto-mac=no name=loopback

5	C# Safe Mode				✓ Hide	Passwords 📕 🖗
	Interfaces					
	📲 Bridge 1		New Interface			
	F PPP	Bridge	General STP Statu	s Traffic		OK 5
	🛫 Switch	Bridge Ports Filters NAT Hosts				
	°t <mark>8</mark> Mesh		Name:	юорраск Э		Cancel
	1255 IP ►	Name / Type	Туре:	Bridge		Apply
	👳 IPv6 🛛 🗅		MTU:	1500		Disable
	🖉 MPLS 🔿 🔿		L2 MTU:			Comment
	🍂 Routing		MAC Address:		13	Comment
	🛞 System 🗅		ARP.	enabled		Сору
	룢 Queues					Remove
	Files		Admin. MAC Address:	00.22.22.22.22.42.22		Torch
-	Log					Torch
ô	A Radius					
InE	🗙 Tools 🛛 🗅					
X	New Terminal					
SO	🛃 MetaROUTER					
PLC 0	Partition	•				
ute	Ante Supout.rif	Utems				
80	Manual					
	-		enabled	running	slave	

Roteador3:

/interface bridge

add admin-mac=00:33:33:33:33:33 auto-mac=no name=loopback

0	admin@fe80::20c:42ff	fe52:7306%10 (Roteador3) - V	VinBox v6.2 on RB433	AH (mipsbe)			X
6	C* Safe Mode					Hide Passwords	: 🔳 🙆
	🄏 Quick Set						
	Interfaces						1
	🔔 Wireless	Bridge	New Interface	(advance -)			
	📲 Bridge 👖	Bridge Ports Filters NAT	General STP Statu	is Traffic	1	ок 5	
	📑 PPP		Name:	loopback 3		Cancel	g
	🛫 Switch	Name / Type	Туре:	Bridge		Apply	Pac 🔻
	°t <mark>8</mark> Mesh	1/1	MTU:	1500		Diaphla	
	፼ IP ►		L2 MTU:			Disable	
	👳 IPv6 🛛 🗅		MAC Address			Comment	
	🖉 MPLS 🛛 🗅		1000 Taleba.			Сору	
	🎉 Routing 🗈		ARP:	enabled		Remove	
	∰ System ト		Admin. MAC Address:	00:33:33:33:33:4	^▲		
~	🙊 Queues					Torch	
R	📄 Files						
E	Log						
	🥵 Radius						
OS	🄀 Tools 🛛 🗅						
er	New Terminal	• Otame					•
ut	E MetaROUTER						
8	b Partition						
	These states and the		pablad	a unquina			

Roteador4:

/interface bridge

add admin-mac=00:44:44:44:44 auto-mac=no name=loopback

Sadmin@fe80::20c:42ff:f	iead:5df8%11 (Roteador4) - WinBox v6.2 on RB433AH (mipsbe)		
ら CM Safe Mode			🗹 Hide Passwords 📗 🗎
Safe Mode Image: Constraint of the second secon	Endge Bidge Pots Filters NAT Hosts Filters Name / Type L2 MTU Tx 0 Items out of 4	New Interface General STP Status Traffic Name: loopback Type: Bridge MTU: 1500 L2 MTU: Isono MAC Address: ARP: enabled Isono Admin. MAC Address: 00:44:44:44:44 4	Hide Passwords
Make Supout.rff			
Hanual		enabled running slave	
🔀 🛃 Exit			

3° Etapa:

Adcione os ips nas respectivas interfaces que irão fazer parte do roteamento.

Roteador 1:

Configuar o ip da interface loopback

/ipv6 address

add address=2001:db8:1110::1/128 advertise=no interface=loopback



Configurar o ip da interface ether1

/ipv6 address

add address=2001:db8:1111::1/64 advertise=no interface=ether1

Ca Safe M	ode					Hide Password
Minimi Interfaces Wireless Bridge PPP Switch Switch		19.6	Address List			
Ψ.P.	12	-		New IPv6 A	Address	
VE IPv6	- 1			Address:	2001:db8:1111::1/64 2	ок 4
Ø MPLS	P	DL	中fe80::20c:42ff.fe5c:ac37	From Pool:		▼ Cancel
💐 Routing	1	DL	€fe80::20c:42ff:fe5c:ac38			
System	1	DL	♣fe80::20c:42ff.fe5c:ac39	Interface:	ether1 3	Apply
Queues		DL	⊕resu::20c:42fffe5c:ac3a ⊕fe80::20c:42fffe5c:ac3b		EUI64	Diephle
Files		DL	☆fe80::20c:42ff fe5c:ac3c		Advertise	Disable
	-	DL				Comment
Log	-	DL	♣fe80::20c:42fffe5c:ac3e			Copy
Adius 🖓		DL				
💥 Tools	1	G	令2001:db8:1110::1			Remove
📰 New Termin	le		I. Protocological and the second second	enabled	Global	
🖳 MetaROUT	R					
n Partition						
Make Supor	t rif					
Manual		11 ite	ems			
Mariuar		P		_		

Roteador2:

Configurar o ip da interface loopback

/ipv6 address

add address=2001:db8:1110::2/128 advertise=no interface=loopback

0	admin@fe80::20c:42ff	fe9a:76%10 (Roteador2) - Wir	Box v6.2 on RB1100 (powerpc)
5	Ca Safe Mode		☑ Hide Passwords 🔳 🕯
	im Interfaces is Bridge is PPP is Switch		Address List
	ଂଅତ୍ତ Mesh		DL
	里 IP		DL ^{Ch} fe80::20c:42fffe9a:6c/64 ether2 no
	몇 IPv6 1	Addresses 2	DL ⊕fe80::20c:42ff.fe9a.6e New IPv6 Address
	MPLS N	DHCP Client	DL
	🌌 Routing 🗈 🗈	DHCP Server	DL 육/e80::20c:42ffe9a:70 DL 육/e80::20c:42ffe9a:71 From Pool:
	🛞 System 🗅	Firewall	DL +fe80::20c:42fffe9a:72
	👰 Queues	ND	DL
	💼 Files	Neighbors	DL \$\Press:20c:42fffe9a:76
	📄 Log	Pool	DL 축fe80::222:22#fe22:22 6 Advertise Comment
×	🥵 Radius	Routes	Conv
Bo	🄀 Tools 💦 🕅		
/in	📰 New Terminal		12 iteme
	🛃 MetaROUTER		enabled Global
ļ	🏉 Partition		
er] Make Supout.rif		
out	🚱 Manual		
R	📕 Exit		

Configurar o ip da interface ether1

/ipv6 address

add address=2001:db8:1111::2/64 advertise=no interface=ether1

CM Safe Mode										Hide Passwords
Interfaces										
Bridge	14	Address List				[×			
PPP	-					Find				
2 Switch		Address /	From Pool	Interface	Ad	lvertise	-			
8 Mesh	DL	♣fe80::20c:42ff.fe9a:6b/64		ether1	no)				
	DL			ether2	no	10				
	DL	fe80::20c:42ff.fe9a:6d/64		ether3	nc				_	Concession and
IPv6	DL			ether4	New IPv6	Address				
MPLS N	DL	Ffe80::20c:42fffe9a:6f/64		ethers		0001	* 0 111		1	
	DL	Presu::20c:42ft te9a: /0/64		etherb	Addres	s: 2001	:008:111	1::2/64 2		OK 4
Routing	DL	Presu::20c:42fffe9a:71/64		ether/	From Poo	ol:			-	Cancel
System	DL			ethero	10000000000000000000000000000000000000			-		
Queues	DL	⊕fe80::20c:42ff fe9a:74/64		ether1(Interfac	e: ether	1	- 3	Ŧ	Apply
ducucu	DL	€ fe80::20c:42ff fe9a:76/64		ether12		-				
Files	DL	⊕fe80::222:22ff fe22:2222		loopback		LIE	UI64			Disable
Log	G	🕆 2001:db8:1110::2		loopback		□ A	dvertise			Comment
Radius										
Tools										Сору
New Terminal	13 it	ems		1						Remove
MetaROUTER	<u> </u>				enabled			Global		
Partition										
Make Supout.rif										
Manual										

Configurar o ip da interface ether2

/ipv6 address

add address=2001:db8:1113::1/64 advertise=no interface=ether2

ļ	C* Safe	Mode										Hide Passwords
	Interfaces											
1	Bridge		124					0				
100	PPP		- 1	- / 8 6 7				Find				
100	🛫 Switch			Address	From Pool	Interface	1	Advertise	-			
e	C Mesh		G	🕆 2001:db8:1111::2/64		ether1		10				
	10	h	DL			ether1	1	no				
1 1 10	The second secon		DL			ether2	-	10				TANK STATE
1	¥∮ IPv6	1	DL			ether3	New IP	6 Address				
	2 MPI S	N	DL			ether4					1	
	WILD .		DL	☆fe80::20c:42ff fe9a:6f/64		ether5	Addre	ess: 2001	db8:111	3::1/64 2		ок 4
à	Routing	1	DL	refe80::20c:42ff.fe9a:70/64		ether6	From P	ool:			-	Canad
	System	N	DL			ether?	FIOIL					Cancel
Ľ	ogo o jocom		DL	refe80::20c:42fffe9a:72/64		ethers	Interfa	ce: ether	2	3	Ŧ	Apply
4	Queues		DL			ethers				-		
1	Files		DL	☆fe80::20c:42fffe9a:74/64		ether16		EL	JI64			Disable
	1001 - A		DL	Pfe80::20c:42fffe9a:76/64		ether12			lucitico			Diodolo
	Log		DL	Pte80::222:22ft fe22:2222.		loopback			veitise		l	Comment
1	🥵 Radius		G	C2001:db8:1110::2		loopback						
-	X Tools	1										Сору
-	🔳 New Term	inal	14 it	ems								Remove
	MetaROU	TER	L				enabled	1		Global		
1	Partition						L					
1	Make Sun	out of										
	- Hake Jup	outin										
	😋 Manual	_										
I	🖳 Exit											

Configurar o ip da interface ether3

/ipv6 address

add address=2001:db8:1114::1/64 advertise=no interface=ether3

C* Safe Mode											✓ Hide Passw	rords
Interfaces												
Bridge	IP4						×					
🚅 PPP		7	7		Ī	Find						
🕎 Switch		Address	/ From Pool	Interface	Adve	ertise	-					
°℃ Mesh	G	+2001:db8:1111::2/64		ether1	no							
	G	+2001:db8:1113::1/64		ether2	no							
9 P	DL	♣fe80::20c:42ff.fe9a:6b/6	4	ether1	no			_		_		
v⊈ IPv6 ト	DL	♣fe80::20c:42ff.fe9a:6c/6	4	ether2	New IPv6 A	ddress						
2 MDIC N	DL	♣fe80::20c:42fffe9a:6d/6	4	ether3		-			-	-	Consultance of	
WITLS I	DL		4	ether4	Address:	2001:	db8:1114::1	/64	2		ок 4	
💐 Routing 📄 👘	DL		1	ether5	From Pool					-	Connect	
683 System	DL		4	ether6	1101111001.			-		1.	Cancel	
tor oyatom	DL	☆fe80::20c:42ff.fe9a:71/6	4	ether?	Interface:	ether3	5	3		Ŧ	Apply	
Queues	DL	refe80::20c:42ff.fe9a:72/6	4	ethers				-		10000		
Files	DL	☆fe80::20c:42fffe9a:73/6	4	ether5		T EU	164				Disable	
1001 .	DL	Te80::20c:42ft fe9a: /4/6	4	ether16			vortioo				Diddbio	
Log	DL	Te80::20c:42ff.fe9a:76/6	4	ether12			veiuse			l	Comment	
🥵 Radius	DL	Tre80::222:22ff fe22:2222		loopback								
🗶 Tools 🗈	G	2001:db8:1110::2		loopback							Сору	
New Terminal	15 it	ems (1 selected)									Remove	
MetaROUTER					enabled			Glo	bal			
Partition						-	_	1	ALC: NO	_		1
Make Supout if												
Manual												

Roteador3:

Configurar o ip da interface loopback

/ipv6 address

add address=2001:db8:1110::3/128 advertise=no interface=loopback

Sadmin@fe80::20c:42f	f:fe52:7306%10 (Roteador3) -	WinBox v6.2 on RB433AH (mipsbe)		
Safe Mode				🗹 Hide Passwords 📕 🛅
Cuick Set Cuick Set	Addresses 2 DHCP Client DHCP Server Firewall ND Neighbors Pool Routes	Konstantia Konstantia Konstantia Konstantia Konstantia Konstantia	From Pool Interface Advected attended a	IX Find artise ▼ 128 4 OK 7 Cancel ▼ Cancel V Disable Comment Copy Remove
Tools		4 items	enabled	Global
MetaROUTER				
S 修 Partition				
🦉 🗋 Make Supout.rif				
B Manual				
🗠 🛃 Exit				

Configurar o ip da interface ether1

/ipv6 address

add address=2001:db8:1113::2/64 advertise=no interface=ether1

Call Safe Mode				✓ Hide	e Passwords 📕
Quick Set Quick Set Im Interfaces Wireless Bidge PPP Switch System IP P IPv6 MPLS P Routing P System N	Address List Address DL 令fe80:20c.4 DL 令fe80:20c.4 DL 令fe80:20c.4 DL 令fe80:20c.4 DL 令fe80:20c.4 DL 令fe80:20c.4	From Pool 2ff fe52:7305 2ff fe52:7306 2ff fe52:7307 3ff fe33:3333 110::3	Interface ether1 ether2 New IPv6 A Address: From Pool: Interface:	Image: Second	Cancel Apply
Queues Queues Files Log Radius Yongs Notes				EUI64 Advertise	Disable Comment Copy Remove
New Terminal	5 items		enabled	Global	
MetaROUTER					
Aake Supout.rif					

Configurar o ip da interface ether2

/ipv6 address

add address=2001:db8:111a::1/64 advertise=no interface=ether2

) ad	dmin@fe80::20	:42ff:fe52:	:7306%1	0 (Roteador3) - WinBox v6.2	on RB433AH	(mipsbe)			
5	C Safe Mo	de							Hide Passwords 📕
	🝟 Quick Set								
P	Interfaces								
1	🗓 Wireless			S1044 01					
1	🖁 Bridge		- 11	Address List					
ų	PPP		+				Find	1	
-	문 Switch			Address /	From Pool	Interface	Advertise	•	
0	😮 Mesh		G	〒2001:db8:1113::2/64 金fe80::20c:42ff fe52:7305		ether1	no		
2	된 IP	1	DL	⊕fe80::20c:42ff.fe52:7306		New IPv6 A	ddress		
4	e IPv6	1	DL			Address:	2001:db8:111a	::1/64 2	ок 4
4	2 MPLS	1	G	令2001:db8:1110::3		From Dool:			
3	Routing	1				FIOIII FOOI.		2	
ę	System	4				Interface:	ether2	3	Apply
6	Queues						EUI64		Disable
	Files						Advertise		Comment
	Log								
× 2	🔒 Radius								Copy
8	K Tools	1							Remove
ul	New Terminal		6 iter	ns		enabled		Global	
	MetaROUTE	3						1	
	Partition								
a I	💄 Make Supout	.rif							
n e	Manual								
¥	Exit								

Roteador4:

Configurar o ip da interface loopback

/ipv6 address

add address=2001:db8:1110::4/128 advertise=no interface=loopback

0	adm	nin@fe	e80::20c	:42ff:1	ead:5df	8%11 (Rot	eador4) - Wii	nBox v6	.2 on RB433A	H (mipsbe)					×
Ю	0	• s	Safe Mod	le									✔ Н	ide Passwords	
	1	Quick	Set												
) 	Interfa	ices												
	-	Wirele	ess		2	6 Address L	ist								
	-	Bridge	•				- 				Fin	d			
	-	PPP			-	Addrage			From Pool	Interface	Δ.	luart -			
	Ŧ	Switch	n		DL	rfe80:::	20c:42ff.fead:	5df8/	TION TOOL	ether2	no				
	°18	Mesh			DL	令fe80:::	20c:42ff.fead:	5df9/		ether5	no				
	255	IP		1	DL	Tresu:	244:4411.1044:	4444		юорраск	no				
	<u>v6</u>	IPv6	1	1					New IPv6 A	vddress]
	0	MPLS	1	4					Address:	2001:db8:111	0::4/128	3		ок 6	
	R	Routin	ng	N					From Pool:				-	Cancel	
		Syster	n	1					Interface:	loopback	4		Ŧ	Apply	
		Queue	es							linehener				/ ppiy	
		Files								EUI64				Disable	
		Log								Advertise				Comment	
X	A.	Radiu	S		•				-					Сору	
Be	×	Tools		1	3 ite	ms								Remove	
Nit		New 7	Terminal												
S	2	MetaF	ROUTER	3					enabled		G	lobal			
õ	٩	Partitio	on												
tel	3	Make	Supout.	rif											
ou	9	Manua	al												
Ř		Exit													

Configurar o ip da interface ether1

/ipv6 address

add address=2001:db8:1114::2/64 advertise=no interface=ether1

0	admin@fe80::20c:4	2ff:fead:5df	18%11 (Roteador4) - WinBox v	6.2 on RB433A	AH (mipsbe)				X
5	C* Safe Mode						🖌 Hi	ide Passwords	
	Auick Set Imm Interfaces		C Adamson 1 int						
	📲 Bridge					Find			
	📑 PPP	-		Frank Davi	Interfaces	Adved			
	🕎 Switch	DL	令fe80::20c:42ff.fead:5df8/	FIOM FOOI	ether2	no Noveri			
	°t8 Mesh	DL	€ fe80::20c:42ff.fead:5df9/		ether3	no			
	IP	r DL G			loopback	no			
	👳 IPv6	0		New IPv6 A	Address				
	MPLS	1		Address:	2001:db8:1114	1::2/64 2		ок 4	
	😹 Routing	1		From Pool:	1		-	Cancel	
	System	1		Interface:	ether 1	2		Arab	
	🙊 Queues			inconduct.	Curci	-		Арріу	
	📄 Files				EUI64			Disable	
	Log				Advertise			Comment	
X	🥵 Radius		5 	_				Сору	
ĕ	🔀 Tools	4 it	ems					Remove	
N	New Terminal								
S	MetaROUTER			enabled		Global			
Q	Notition 🕗								
<u>e</u>	Aake Supout.rif								
OU	🚱 Manual								
02	Exit	-							

Configurar o ip da interface ether2

/ipv6 address

add address=2001:db8:111b::1/64 advertise=no interface=ether2

0	Safe I	Node						✓ Hi	de Passwords	1
1	Quick Set									
jim	Interfaces									
î	Wireless		1246	Addrass List						
-	Bridge		1							
1	PPP						Find			
	Switch			Address /	From Pool	Interface	Advert 🔻			
-			G	2001:db8:1114::2/64		ether/	no			
-18	Mesh		DI			ether?	no			
255	IP	1	DL	€ fe80::20c:42ff fead:5df9/		etheri	10			
<u>v6</u>	IPv6	1	DL	€fe80::244:44ff.fe44:4444	IPv6 Addres	s <2001:db8:11	1b::1/64>			
0	MPLS	4	G	骨2001:db8:1110::4	Address:	2001:db8:111b	.:1/64 2		ок 4	
2	Routing	N			From Pool-			-	Connect	1
603	Sustem	N			Troin Tool.		100		Cancel	1
000	oyacam				Interface:	ether2	3	Ŧ	Apply	1
2	Queues					-				1
	Files					EUI64			Disable	1
	Log					Advertise			Comment	1
A	Radius								Сору	
X	Tools	1	6 Per	me	-					I
	New Termi	nal	one	113	-				Remove	
29	MetaROU	TER			enabled		Global			1
6	Partition									
	Make Supe	but.rif								
	Manual									
	Exit									

4° Etapa:

Com as mudanças do OSPFv2 para o OSPFv3 é preciso adicionar as interfaces que irão fazer parte da área ao invés das redes.

Roteador1:

Adicionar a interface ether1 que ira fazer parte da área backbone do roteador1.

/routing ospf-v3 interface

add area=backbone interface=ether1

0	admin@fe80::20c:42ff	fe5c:ac38%10 (Rotead	dor1) - WinBox v6.2 on RB493AH	H (mipsbe)						x
5	Ca Safe Mode								Hide Passwords	
	Interfaces Wireless Wireless Bridge PPP Switch Composition Co		Interfaces Instances Areas	Area Ranges Virt	ual Lir Priorit	New OSPFv3 General Status Area:	backbone	Ŧ	IX K Cancel	
	MPLS N					Interface:	ether1 5	Ŧ	Apply	
	Routing 1 ▷ ⊕ System ▷	BFD BGP				Cost: Priority:	10		Disable	
	👰 Queues	Filters				Network Type:	default	Ŧ	Сору	
	Eles Log	MME OSPF				Instance ID:	0 Passive		Remove	
X	Kadius	OSPFv3 Z					Use BFD			
/inBo	New Terminal	RIP				Retransmit Interval:	5	s		
\leq	MetaROUTER	RIPng				Transmit Delay:	1	s		
eros	Partition Make Supout rif		0 items			Hello Interval: Bouter Dead Interval:	10	S		
Route	🤨 Manual 🌉 Exit				e	mabled passive	inactive	State: dow	n	

Roteador2:

Adicionar a interface ether1 que ira fazer parte da área backbone do roteador2.

/routing ospf-v3 interface

add area=backbone interface=ether1

C4 Safe Mode			Hide Password	ds
Interfaces				
Bridge				
🚅 PPP		OSPEv3 New OSPEv3		-
🛫 Switch		Interfaces Instances Areas Area Ranges Virtus General Status		
°t <mark>8</mark> Mesh				1
255 IP 1		Area (Interface Cont I	t backbone	Ca
ve IPv6 ►		Interface Cost Interface	e ether1 5 ∓	A
🖉 MPLS 🛛 🗅		Cos	:: 10	Dis
🎉 Routing 1 🗅	BFD	Priority	: 1	-
🚯 System 🗈 🗅	BGP	Network Type	: default ∓	-
Queues	Filters	Instance IE		Rei
📄 Files	MME		Passive	
📄 Log	OSPF		Use BFD	
🥵 Radius	OSPFv3 2		E.	
🔀 Tools 🕴 🕅	Prefix Lists	Retransmit Interva	s	
📰 New Terminal	RIP	Transmit Delay	s 1	
MetaROUTER	RIPng	Hello Interva	: 10 s	
🕭 Partition		Router Dead Interva	: 40 s	
Aake Supout.rif				
🚱 Manual				_

Adicionar a interface ether2 que ira fazer parte da área backbone do roteador2.

/routing ospf-v3 interface

add area=backbone interface=ether2

Safe Mode	V Hid	e Passwords 📕
Interfaces		
25 Bridge		
eg PPP	OSPFv3 New OSPFv3	
🕎 Switch	Interfaces Instances Areas Area Ranges Virt General Status	OK
°t\$ Mesh		- Cano
型 IP 1 型	Area / Interface Cost	
1Pv6		Apply
MPLS N	Cost: 10	Disab
🎉 Routing 🗈	Priority: 1	
System	Network Type: default	₹ Cop
Queues	Instance ID: 0	Remo
Files		
E Log		
🥵 Radius		
🔀 Tools	Retransmit Interval: 5	s
New Terminal	Transmit Delay: 1	s
MetaROUTER	Hello Interval: 10	s
A Partition	Bouter Dead Interval: 40	
Make Supput of	1 item	
Manual		
	enabled passive inactive Stat	e: down

Adicionar a interface ether3 que ira fazer parte da área backbone do roteador2.

/routing ospf-v3 interface

add area=backbone interface=ether3

Safe Mode	✓ Hide P	asswords
Interfaces		
물로 Bridge		
ea PPP	OSPFv3 New OSPFv3	1
🕎 Switch	Interfaces Instances Areas Area Ranges Virti General Status	0
ete Mesh	Area: backbone] Can
₩ IPv6 ►	Area / Interface Cost Interface: ether3 2 7	Арр
🖉 MPLS 🗈	Sbackb ether2 10 Cost: 10	Disa
🔀 Routing 🗈	Priority: 1	
∰ System ト	Network Type: default	
P Queues	Instance ID: 0	Rem
📑 Files	Passive	
E Log	Use BFD	
🔏 Radius	Determent Internet, IS	=
🔀 Tools 🗈	Retransmit interval. 5	
New Terminal	Transmit Delay: 1s	8
MetaROUTER	Hello Interval: 10 s	6
🧶 Partition	Router Dead Interval: 40 s	
Make Supout.nf	2 10115	
🕢 Manual		

Roteador3:

Adicionar a interface ether1 que ira fazer parte da área backbone do roteador3.

/routing ospf-v3 interface

add area=backbone interface=ether1

admin@fe80::20c:42ff	fe52:7306%10 (Roteador3)	- WinBox v6.2 on RB433A	H (mipsbe)							
C* Safe Mode									V H	lide Passwords
🔏 Quick Set										
Minterfaces										
🗊 Wireless										
📲 Bridge		OSPFv 2				New OSPF	Fv3			
📑 PPP		Interfaces Ins	tances Areas	Area Ranges	Virtual Links	General	Status			ок 6
🛫 Switch			8				Area-	hackhone		Cancel
°t <mark>8</mark> Mesh		Area	/ Interface	Cost	Priority		later for sec.	athead 5		
1 ¶							intenace.			Apply
몇 IPv6							Cost:	10		Disable
MPLS N							Priority:	1		Сору
🙈 Routing 1 🗅	BFD					Ne	twork Type:	default	₹	Remove
💮 System 🗅	BGP					1	Instance ID:	0		Tiomove
Queues	Filters							Passive		
📄 Files	MME							Use BFD		
E Log	OSPF					Retrans	mit Interval:	5	s	
🔏 Radius	OSPFv3 2					Tee	Delau	1		
🗙 Tools 🛛 🗅	Prefix Lists					IId	nsmit Delay.		5	
New Terminal	RIP					н	ello interval:	10	s	
MetaROUTER	RIPng	0 items				Router De	ad Interval:	40	S	
b Partition										
📑 Make Supout.rif						enabled	passive	inactive	State: do	wn
😧 Manual							,			
📕 Exit										

Roteador4:

Adicionar a interface ether1 que ira fazer parte da área backbone do roteador4.

/routing ospf-v3 interface

add area=backbone interface=ether1

ac	dmin	@fe80::20c:42ff	fead:5df8%11 (Roteado:	r4) - WinBox v6.2 on R	B433AH (mipsbe)			
C	C#	Safe Mode						Hide Passwords 📕
	🔏 Qu 🎟 Int	uick Set erfaces						
1.2.16	î W	ireless						
	Bri	idge	OSPEv3	New OSPFv3				
Ę	PF	P		General Status			ок 5	
10	æ Sv	vitch		Area:	backbone	-	Cancel	Lon hours
0	to Me	esh		Interface:	ether1		Annh	Fina
12	55 IP	1	Area / Interf	intendee.			Арріу	Neig State
13	vé IP₁	v6 N		Cost:	10		Disable	
1	2 M	PLS N		Priority:	1		Сору	
3	Ro	outing 1		Network Type:	default	₹	Pemove	
100	Sy Sy	stem 🗅		Instance ID:	0		Tielliove	
6	Qu	Jeues			Passive			
	File	es			Use BFD			
Ī	Lo	g		Betransmit Interval:	5	s		
1	🔒 Ra	adius		Toward Delay	1			
3	To	ols N		transmit Delay:		s		
	Ne Ne	ew Terminal		Hello Interval:	10	s		
1	Me Me	etaROUTER	•	Router Dead Interval:	40	s		
	Pa	artition	0 items					
i	Ma	ake Supout.rif	÷	enabled passive	inactive	State: dowr	1	
	B Ma	anual		[]	1			1
	_							

5° Etapa:

Definir o Router ID dos roteadores e permitir a distribuição das rotas dinâmicas e estáticas entre os roteadores.

Roteador1:

/routing ospf-v3 instance

set [find default=yes] redistribute-connected=as-type-1 redistribute-static=as-type-1 router-id=0.0.0.1

C Safe Mode								✓ Hide	Passwords
Interfaces									
🚊 Wireless									
Bridge									
🚅 PPP		OSPFv3 3							
🛒 Switch		Interfaces Instances	Areas Area Rang	es Virtual Lin	nks Neight	oors NBMA Neighbors	LSA Routes		
ିଅଟ୍ଟ Mesh		+ *					F	ind	
iP ►		Name	Router ID	Running				-	
👳 IPv6 🛛 🗅		* 🕏 default 👍	0.0.0.0	yes	OSPFv3 Ir	nstance <default></default>			
🖉 MPLS 🛛 🗅					General	Metrics Status			ОК
🍂 Routing 🏾 👖 🖻	BFD					Name:	default		Cancel
🎲 System 🗈	BGP					Bouter ID:	0.0.0.1 5		Apphy
👰 Queues	Filters					ficator inc.			- uppiy
📄 Files	MME				Re	distribute Default Route:	never	₹	Disable
E Log	OSPF				Redistrib	oute Connected Routes:	as type 1 6	Ŧ	Comment
🥵 Radius	OSPFv3 2				Re	distribute Static Routes:	as type 1 7	Ŧ	Сору
🔀 Tools 🗈 🕅	Prefix Lists				F	Redistribute RIP Routes:	no	Ŧ	Bemove
New Terminal	RIP				В	edistribute BGP Routes	no	Ŧ	
MetaROUTER	RIPng				Redictribu	te Other OSRE Routes:	00		
Partition		1 item (1 selected)				ate other OJFF Houles.	IIIO		
Make Supout.rif		. ,							
🤫 Manual					enabled		default		

Roteador2:

/routing ospf-v3 instance

set [find default=yes] redistribute-connected=as-type-1 redistribute-static=as-type-1 router-id=0.0.0.2

C* Safe Mode				V H	lide Passwords
Interfaces					
🕌 🖉 Bridge	05	oPFv3			
📑 PPP	In	iterfaces Instances Areas Area Ran	ges Virtual Links Neighbors NBMA Ne	ighbors LSA Routes	
🕎 Switch	-	• - • * 🗖 🍸		Fi	nd
°t¦8 Mesh		Name / Router ID	Running		-
IP N		Contract 4 0.0.0.0	OSPFv3 Instance <default></default>		
👳 IPv6 🗈			General Metrics Status		ОК
🖉 MPLS 🛛 🗅			Name	default	Cancel
🍂 Routing 🧎 🗅	BFD		Pautas ID:	0002 5	
🎲 System 🗅	BGP		Houter ID.	0.0.0.2	Apply
🙅 Queues	Filters		Redistribute Default Route:	never Ŧ	Disable
Files	MME		Redistribute Connected Routes:	astype1 6 ∓	Comment
📄 Log	OSPF		Redistribute Static Routes:	astvpe 1 7 ∓	Copy
🥵 Radius	OSPFv3 2		Redistribute RIP Boutes:	po T	Demana
💥 Tools 🛛 🗅	Prefix Lists				hemove
New Terminal	RIP		Redistribute BGP Routes:	no 💌	
MetaROUTER	RIPng	selected)	Redistribute Other OSPF Routes:	no	
b Partition					
🗋 Make Supout.rif			enabled	default	-1
🚱 Manual					

Roteador3:

/routing ospf-v3 instance

set [find default=yes] redistribute-connected=as-type-1 redistribute-static=as-type-1 router-id=0.0.0.3

Sadmin@fe80::20c:42ff:	fe52:7306%10 (Roteador3) - Winl	Box v6.2 on RB433AH (mipsbe)			
ら 😋 🛛 Safe Mode				🗹 Hide Pas	swords 🔳 🛅
Quick Set					
Interfaces					
🔔 Wireless					
and Bridge			OSPFv3 Instance <default></default>		
PPP 💕		OSPEV3	General Metrics Status		OK 8
🛫 Switch		Interfaces Instances Areas Area Ranges Virtu	Name:	default	Cancel
ଂଅତ୍ତ Mesh			Bouter ID:	0003 5	Apply
<u>≊55</u> IP ►		Name / Router ID Ru			7609
v⊈ IPv6 ト		Suciality 4 0.0.0.0 yes	Redistribute Default Route:	never	Disable
MPLS N			Redistribute Connected Routes:	as type 1 6	Comment
Routing 1	BFD		Redistribute Static Routes:	as type 1 7 ∓	Сору
System	BGP		Redistribute RIP Routes:	no	Remove
Queues	Filters		Redistribute BGP Boutes	no F	
Files	MME		Padiatribute Other OSPE Pautos		
E Log	OSPF		neustibule other oper noules.		
Radius	OSPFv3 2				
Tools C	Prefix Lists		enabled	default	n,
New Terminal	RIP				
MetaROUTER	RIPng				
O Servicion		1 item (1 selected)			
Make Supout.rif					
Manual					
💾 🛃 Exit					

Roteador4:

/routing ospf-v3 instance

set [find default=yes] redistribute-connected=as-type-1 redistribute-static=as-type-1 router-id=0.0.0.4

admin@fe80::20c:42f	f:fead:5df8%11 (Rotead	or4) - WinBox v6.2 on RB433AH (mipsbe)			
C# Safe Mode					Hide Passwords
Quick Set					
Interfaces					
🕵 Wireless		OSPFv3			
Bridge		Interfaces Instances Areas Area Ranges Virtual Lin	nks Neighbors NBMA Neighbors	LSA Routes	
PPP		+ * * - 7	OSPFv3 Instance <default></default>		
🛫 Switch		Name / Router ID Running	General Metrics Status		ок 8
°te Mesh		* &default 4 0.0.0.0 no	Name:	default	Cancel
1 PI			Poster ID:	0004 5	Analy
👳 IPv6 🗈			houler ib.	0.0.0.4	Apply
MPLS N			Redistribute Default Route:	never	Disable
🌌 Routing 1 🗈	BFD		Redistribute Connected Routes:	as type 1 6 ∓	Comment
🛞 System 🗈	BGP		Redistribute Static Routes:	as type 1 7 ∓	Copy
Queues	Filters		Redietribute RIP Routes:		Demons
Files	MME		Delivite DOD Delivites.		Nemove
Log	OSPF		Redistribute BGP Routes:	no 🕨	
🥵 Radius	OSPFv3 2		Redistribute Other OSPF Routes:	no	
🄀 Tools 🗈 🗅	Prefix Lists				
New Terminal	RIP	1 item (1 selected)	enabled	default	
MetaROUTER	RIPng		L		
Partition	1				
] Make Supout.rif					
🚱 Manual					
Exit					
-					

6° Etapa:

Configure os Ipsdos Hosts.

Host1:

	compartinamento				
-	· · · · · · · · · · · · · · · · · · ·	C (700 (0 C)			
Pr	opriedades de Protocolo TCP/IP versao	6 (TCP/IPv6)			
	Geral				
1000	As configurações de IPv6 poderão ser atr	ibuídas automaticamente se a rede oferecer suporte a			
	esse recurso. Caso contrario, voce precis administrador de rede.	ara solicitar as configurações de IPv6 apropriadas ao			
	Obter um enderaro IBv6 automatican	nente			
	Usar o seguinte endereco IPv6:				
	Endereço IPv6:	2001:db8:111a::2			
Comprimento do prefixo da s	Comprimento do prefixo da sub-rede:	64			
		2001/dk0/111/1			
	Gateway padrão:	2001:008:1114::1			
	Gateway padrão:				
	Gateway padrão: Obter o endereço dos servidores DNS O Usar os seguintes endereços de servi	S automaticamente			
	Gateway padrão: Obter o endereço dos servidores DNS O Usar os seguintes endereços de servi Servidor DNS preferencial:	2001:db8:111a::1			
	Gateway padrão: Obter o endereço dos servidores DNS Usar os seguintes endereços de servi Servidor DNS preferencial: Servidor DNS alternativo:	2001:db8:111a::1 S automaticamente idor DNS: 2001:db8:111a::1			
	Gateway padrão: Obter o endereço dos servidores DNS Outro os seguintes endereços de servi Servidor DNS preferencial: Servidor DNS alternativo:	S automaticamente idor DNS: 2001:db8:111a::1			

Geral					
As configurações de IPv6 poderão ser atr esse recurso. Caso contrário, você precis administrador de rede.	ibuídas automaticamente se a rede oferecer suporte a ará solicitar as configurações de IPv6 apropriadas ao				
💿 Obter um endereço IPv6 automatican	nente				
O Usar o seguinte endereço IPv6:					
Endereço IPv6:	2001:db8:111b::2				
Comprimento do prefixo da sub-rede:	64				
Gateway padrão:	2001:db8:111b::1				
Obter o endereço dos servidores DNS automaticamente					
O Usar os seguintes endereços de servi	idor DNS:				
Servidor DNS preferencial:	2001:db8:111b::1				
Servidor DNS alternativo:					
Validar configurações na saída					

7° Etapa:

Visualize a tabela de roteamento para observar a divugação de rotas entre os roteadores

Roteador1:

/routing ospf-v3 route print

Call Safe Mode									✓ Hide	Passwo	rds
S WE-L											
J Wireless											
Bridge		OSPEv3								F	X
📑 PPP				Terrer D		LOL Dudas	10.0				
🛒 Switch		Area Ranges	Virtual Links	s Neighbors N	NBMA Neighbors	LSA Routes	AS Borde	er Routers (JSPFv3 R	louters	
°t¦s Mesh		T						Find	all		Ŧ
IZSS IP		Instance /	Area	Dst. Address		Gateway	1	Interface	Cost	State	-
1990 I		P default		2001:db8:1110:	::1				20	importe	:d e
또 IPv6		P default		2001:db8:111a:	::/64	fe80::20c:42ff.fr	a9a:6b	ether1	40	ext 1	
🖉 MPLS 🗈 🗈		P default	backbone	2001:db8:1113:	.:/64	fe80::20c:42ff.fe	e9a:6b	ether1	20	intra are	ea
Routing 1	RED	P default	haaldhana	2001:db8:111b:	.:/64	fe80::20c:42ft.fe	e9a:6b	ether1	40	ext I	
	bro	P derauit	Dackbone	2001:008:1111	.:/64	:: f=8020c.//2fff	e9a.6h	ether1	40	Intra are	3a
see System	BGP	▶ default	backbone	2001:db8:1114	/64	fe80::20c:42ff f	e9a:6b	ether1	20	intra an	ea
👰 Queues	Filters	▶ default		2001:db8:1110:	::2	fe80::20c:42ff.f	e9a:6b	ether1	30	ext 1	
📄 Files	MME	P default		2001:db8:1110:	::4	fe80::20c:42ff.fr	e9a:6b	ether1	40	ext 1	
E Log	OSPF										
🥵 Radius	OSPFv3 2										
🄀 Tools 🗈 🕅	Prefix Lists										
🔚 New Terminal	RIP										
🛃 MetaROUTER	RIPng	•									+
ଌ Partition		9 items									
] Make Supout.rif											
😯 Manual											

Observe que na tabela foi divulgada as rotas de todos os roteadores.

Roteador2:

/routing ospf-v3 route print

🕥 admin@2001:db8:111	0::2 (Roteador2) - WinBo	ox v6.2 on RB1100 (pov	verpc)					x c
Safe Mode						0	 Hide Passwo 	rds 📕 🙆
Interfaces								
and Bridge		OSPFv3						
📑 PPP		Area Ranges Virtua	al Links Neighbors NB	MA Neighbors LSA Route	AS Borde	r Routers	OSPFv3 Route	ers
🛫 Switch		7			1	Find	d all	Ŧ
°t <mark>8</mark> Mesh		Instance / Area	Dst. Address	Gateway	Interface	Cost	State	-
255 IP		▶ default	2001:db8:1110::2	(1))))))))))))))))))))))))))))))))))))		20	imported e	
IPv6		default backbe	one 2001:db8:1111::/6	54 ::	ether1	10	intra area	
		P default	2001:db8:1110::1	fe80::20c:42tt	. ether1	30	ext 1	
W MPLS		P default Dackbi	one 2001:008:1114::/b	54 :: 5-0020424	ether3	10	intra area	
🧟 Routing 🤰 🗋	BFD	P default	2001:db8:111a://	54 fe80::20c:42ff	ether2	30	ext 1	
💮 System	BGP	▶ default	2001:db8:111b::/€	64 fe80::20c:42ff	. ether3	30	ext 1	
A Queues	Diam	default backb	one 2001:db8:1113::/6	54 ::	ether2	10	intra area	
- Gueues	Filters	▶ default	2001:db8:1110::4	fe80::20c:42ff	. ether3	30	ext 1	
Files	MME							
E Log	OSPF							
🖌 🥵 Radius	OSPFv3 2							
🗙 🔀 Tools 💦	Prefix Lists							
📰 New Terminal	RIP							
MetaROUTER	RIPng	9 iteme						
🗴 🧶 Partition 🛛						_		
🗓] Make Supout.rif								
🕢 Manual								
🞽 📕 Exit								

Note que no roteador 2 também conseguiu atualizar sua tabela com todas as rotas.

8° Etapa:

Teste do host1 para os roteadores e para o host2

Administrador: C:\Windows\system32\cmd.exe	٢
C:\Users\Evandro>ping -6 2001:db8:1110::1	^
Disparando 2001:db8:1110::1 com 32 bytes de dados: Resposta de 2001:db8:1110::1: tempo<1ms Resposta de 2001:db8:1110::1: tempo<1ms Resposta de 2001:db8:1110::1: tempo<1ms Resposta de 2001:db8:1110::1: tempo<1ms	
Estatísticas do Ping para 2001:db8:1110::1: Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de perda), Aproximar um número redondo de vezes em milissegundos: Mínimo = Oms, Máximo = Oms, Média = Oms	
C:\Users\Evandro>	+

#ping -6 2001:db8:1110::2



#ping -6 2001:db8:1110::3

```
Administrador: C:\Windows\system32\cmd.exe

Microsoft Windows [versao 6.1.7601]

Copyright (c> 2009 Microsoft Corporation. Todos os direitos reservados.

C:\Users\Evandro>ping -6 2001:db8:1110::3

Disparando 2001:db8:1110::3 com 32 bytes de dados:

Resposta de 2001:db8:1110::3: tempo<1ms

Estatísticas do Ping para 2001:db8:1110::3:

Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de

perda>,

Aproximar um número redondo de vezes em milissegundos:

Mínimo = 0ms, Máximo = 1ms, Média = 0ms

C:\Users\Evandro>_
```



#ping -6 2001:db8:111b::2

Administrador: C:\Windows\system32\cmd.exe Aproximar um número redondo de vezes em milissegundos: Mínimo = Øms, Máximo = Øms, Média = Øms C:\Users\Evandro>ping -6 2001:db8:111b::2 Disparando 2001:db8:111b::2 com 32 bytes de dados: Resposta de 2001:db8:111b::2: tempo=1ms Resposta de 2001:db8:111b::2: tempo=1ms Resposta de 2001:db8:111b::2: tempo=1ms Resposta de 2001:db8:111b::2: tempo=1ms Estatísticas do Ping para 2001:db8:111b::2: Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de perda), Aproximar um número redondo de vezes em milissegundos: Mínimo = Øms, Máximo = 1ms, Média = Øms C:\Users\Evandro>

Teste do host 2para os roteadores e para o host1

#ping -6 2001:db8:1110::1

Administrador: Prompt de Comando - cmd	
c:\>ping -6 2001:db8:1110::1	
Disparando 2001:db8:1110::1 com 32 bytes de dados: Resposta de 2001:db8:1110::1: tempo<1ms Resposta de 2001:db8:1110::1: tempo<1ms Resposta de 2001:db8:1110::1: tempo<1ms Resposta de 2001:db8:1110::1: tempo<1ms	
Estatísticas do Ping para 2001:db8:1110::1: Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de perda), Aproximar um número redondo de vezes em milissegundos: Mínimo = Oms, Máximo = Oms, Média = Oms	
c:\>	

Administrador: Prompt de Comando - cmd	
c:\>ping -6 2001:db8:1110::2	
Disparando 2001:db8:1110::2 com 32 bytes de dados: Resposta de 2001:db8:1110::2: tempo<1ms Resposta de 2001:db8:1110::2: tempo<1ms Resposta de 2001:db8:1110::2: tempo<1ms Resposta de 2001:db8:1110::2: tempo<1ms	
Estatísticas do Ping para 2001:db8:1110::2: Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de perda), Aproximar um número redondo de vezes em milissegundos:	
Minimo = Øms, Maximo = Øms, Media = Øms c:\>_	-

#ping -6 2001:db8:1110::3

📾 Administrador: Prompt de Comando - cmd	×
c:\>ping -6 2001:db8:1110::3	^
Disparando 2001:db8:1110::3 com 32 bytes de dados: Resposta de 2001:db8:1110::3: tempo<1ms Resposta de 2001:db8:1110::3: tempo<1ms Resposta de 2001:db8:1110::3: tempo<1ms Resposta de 2001:db8:1110::3: tempo<1ms	
Estatísticas do Ping para 2001:db8:1110::3: Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de perda), Anroximar um número redondo de vezes em milissegundos:	
Mínimo = Oms, Máximo = Oms, Média = Oms	-

#ping -6 2001:db8:1110::4

Administrador: Prompt de Comando - cmd	
c:\>ping -6 2001:db8:1110::4	*
Disparando 2001:db8:1110::4 com 32 bytes de dados: Resposta de 2001:db8:1110::4: tempo<1ms Resposta de 2001:db8:1110::4: tempo<1ms Resposta de 2001:db8:1110::4: tempo<1ms Resposta de 2001:db8:1110::4: tempo<1ms	
Estatísticas do Ping para 2001:db8:1110::4: Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de perda), Aproximar um número redondo de vezes em milissegundos: Mínimo = Oms, Máximo = Oms, Média = Oms	
c:\>	·

```
Administrador: Prompt de Comando - cmd

c:\>ping -6 2001:db8:111a::2

Disparando 2001:db8:111a::2 com 32 bytes de dados:

Resposta de 2001:db8:111a::2: tempo=1ms

Resposta de 2001:db8:111a::2: tempo<1ms

Resposta de 2001:db8:111a::2: tempo<1ms

Resposta de 2001:db8:111a::2: tempo<1ms

Estatísticas do Ping para 2001:db8:111a::2:

Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de

perda),

Aproximar um número redondo de vezes em milissegundos:

Mínimo = 0ms, Máximo = 1ms, Média = 0ms

c:\>
```

Fontes:

1°- Apostila do curso: IPv6Basico - http://ipv6.br - rev.2012.07.22-01

2°- Implementações de IPV6 Utilizando MikrotikRouterOS http://www.ipv6.br/pub/IPV6/ForumImplementadoresI/MD_Brasil-IPV6.pdf

3° - Manual: IPv6/Address - http://wiki.mikrotik.com/wiki/Manual:IPv6/Address