

SecureFirst

Configure VPN sites to pass Microsoft NetBIOS broadcast traffic

KNOWLEDGE DATABASE



Configure VPN sites to pass Microsoft NetBIOS broadcast traffic

Some Microsoft networking environments rely heavily on broadcasts to advertise and locate network resources (servers, print devices, etc). By default, SonicWall devices are configured to not pass these Microsoft NetBIOS broadcasts across VPN tunnels. In this article, we will detail how to configure SonicOS to pass these broadcasts across the VPN tunnel bidirectionally. Please note this may increase traffic in some environments.

Configure both sites to pass Microsoft NetBIOS broadcast traffic:

1. Go to the VPN | Settings page

2. Click on the **Configure** icon next to the VPN policy you previously created.

3. On the pop-up that appears, go to the **Advanced** tab and check the box next to 'Enable Windows Networking (NetBIOS) Broadcast'.

4. When done, click on the '**OK**' button to save and activate the change. For an example, see screenshot below.

Advanced Settings		
Advanced Settings		
Advanced Settings		
Enable Keep Alive		
Suppress automatic Access R	ules creation for VPN Policy	
Require authentication of VPF	N dients by XAUTH	
Enable Windows Networking	(NetBIOS) Broadcast	
Enable Multicast		
C Apply NAT Policies		
Management via this SA:	🗆 НТТР 🗆 НТТ	ps 🗆 ssh
User login via this SA:	🗆 НТТР 🗖 НТТ	PS
Default LAN Gateway (optional):	0.0.0.0	
VPN Policy bound to:	Zone WAN	
eady		
OK	Cancel	Help

1. Then, go to the 'Network | IP Helper' page.

2. Check the box next to 'Enable IP Helper'

3. Make sure the box next to '**Enable DHCP Support**' is unchecked (unless you are using this feature)

4. Check the box next to **NetBIOS** (in older versions this option would be called **'Enable NetBIOS Support**').

You will notice that there will be an autocreated **IP Helper Policy** listed as a result of the previous step's configuration. When done, click on the **Apply** button in the upper-right-handcorner to save and activate the change.

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Г	Relay Protocol	Source	Destination	Comment	Enable	Configure			
E	NetBIO5	LAN Subriets	Remote Site Network	ø		a 200			
	Add	Delete]						

How to Test:

From a host behind one of the SonicWalls, ping a host on the other side of the VPN by it's NetBIOS name. Before testing make sure the host you are trying from and the host being accessed has NetBIOS enabled in their NIC.

RESOLUTION FOR SONICOS 6.5 AND LATER

SonicOS 6.5 was released September 2017. This release includes significant user interface changes and many new features that are different from the SonicOS 6.2 and earlier firmware. The below resolution is for customers using SonicOS 6.5 and later firmware.

Configure both sites to pass Microsoft NetBIOS broadcast traffic:

- 1. Go to the Manage tab.
- 2. Click VPN | Base Settings.

3. Click on the **Configure** icon next to the VPN policy you previously created.

4. On the pop-up that appears, go to the **Advanced** tab and check the box next to 'Enable Windows Networking (NetBIOS) Broadcast'

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5. When done, click on the '**OK**' button to save and activate the change. For example, see screenshot below.



- 6. Then, go to the **Network | IP Helper** page.
- 7. Check the box next to **Enable IP Helper**.
- 8. Make sure the box next to **Enable DHCP Support** is unchecked (unless you are using this feature)
- 9. Check the box next to **NetBIOS** (in older versions this option would be called **'Enable NetBIOS Support**').

SO	NIC WALL	Netwo	k Security Appliano	MONETOR	INVESTIGA	TE NVINGE	Óritok cov	FIGURATION				
Polici Rules Object	es i da m Setup	- 1	P Helper Settin K Enable IP Helper	ngs]								
 Appli Users 	ance	R	elay Protocols							De	16 3	10 7
a Netwo	ork. Is-faces		ADD									
Po Fai	Active & Load Balancing		Name	Put	Put	Rev	Protocol	Timeout(secs)	Made	Hulticast 3P	IP Translation	Enable
2e			DHOP	ø	68		UDP	30	Broadcast	6868	•	8
10	AN Translation		NetBOOS	138	137		UDP .	40	Broadcast	6.0.00	•	8
DR	6 Prov		DAS	\$3	-		UDP .	30	Browlast	8868	0	0
Ra	uting		724	37	-		LOP	30	Broadcast	60.60	•	0
-	program Decompy		WOL.	7	9	•	UDP .	16/A	Browkard	10.00	0	0
MA.	CO ME-god		-dNL (Barjeur)	6363	-	•	LCP	8jA	Multicast	224.0.0.261	•	0
04	O Sever		550P (DUNA)	1900	2901	•	UDP	N/A	Both	239.255.255.250		0
the Dy	do Proxy namic DNS		ADD									

You will notice that there will be an autocreated **IP Helper Policy** listed as a result of the previous step's configuration. When done, click on the **Apply** button in the upper-right-handcorner to save and activate the change.

Policies				Itens :	to 1 (of 1) == = =
ADD DELETE						
Ralay Protocol	Source	Destination	Comment		Enable	Configure
Section 5	X0 Subnet	lphPolog0#Auto_0	ø			60
ADD DELETE						

How to Test:

From a host behind one of the SonicWalls, ping a host on the other side of the VPN by it's NetBIOS name. Before testing make sure the host you are trying from and the host being accessed has NetBIOS enabled in their NIC.

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