

Creating a VPN Policy for the FVX538 or FVS338 ProSafe[®] VPN Firewall with a Remote Endpoint of 0.0.0.0

Summary

This application note describes how to configure a VPN policy to support a remote gateway IP set to 0.0.0.0 on one WAN interface of a NETGEAR FVX538 or FVS338 ProSafe VPN Firewall. This is an updated version using the version 2.x router firmware.

Procedure

This application note describes how to create a VPN Client policy using the VPN Wizard and then editing that policy to set a remote endpoint of 0.0.0.0. It also describes how to set the remote endpoint to 0.0.0.0 for VPN policies that were manually created.

This procedure was tested using the following:

- NETGEAR FVX538 ProSafe VPN Firewall with version V 2.x firmware
 - IP address subnet: 192.168.1.1; 255.255.255.0

Using the VPN Wizard to Create a VPN Policy

1. From the **VPN** menu, select the **VPN Wizard** submenu.
2. Select the **VPN client** radio button.
3. Type the connection name and preshared key.
4. Click **Apply**.

VPN Wizard
VPN Wizard Default Values

About VPN Wizard

The Wizard sets most parameters to defaults as proposed by the VPN Consortium ([VPN Consortium](#)), and assumes a pre-shared key, which greatly simplifies setup. After creating the policies through the VPN Wizard, you can always update the parameters through the [Policies](#) menu.

This VPN tunnel will connect to the following peers:

☐ Gateway
☒ VPN Client

Connection Name and Remote IP Type

What is the new Connection Name?

What is the pre-shared key? (Key Length 8 - 49 Char)

End Point Information

What is the Remote Identifier Information?

What is the Local Identifier Information?

Secure Connection Remote Accessibility

What is the remote LAN IP Address?

What is the remote LAN Subnet Mask?

Apply
Reset

Verifying the IKE and VPN policy

- From the **VPN** menu, select **Policies**.
- Select the **VPN Policies** tab to verify that the VPN policy is in the list.

| Network Configuration | Security | VPN | Administration | Monitoring | Web Support | Logout |

:: Policies :: VPN Wizard :: Certificates :: Mode Config :: VPN Client :: Connection Status ::

IKE Policies
VPN Policies

Operation succeeded.

List of VPN Policies

	!	Name	Type	Local	Remote	Auth	Encr	Action
<input type="checkbox"/>	<input checked="" type="radio"/>	conn1*	Auto Policy	192.168.1.0/255.255.255.0	Any	SHA-1	3DES	edit

* Client Policy

☒ select all
☒ delete
☒ enable
☐ disable

- Select the **IKE Policies** tab to verify that the IKE policy is in the list.

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[Policies](#) :: [VPN Wizard](#) :: [Certificates](#) :: [Mode Config](#) :: [VPN Client](#) :: [Connection Status](#)

[IKE Policies](#) [VPN Policies](#)

List of IKE Policies help

	Name	Mode	Local ID	Remote ID	Encr	Auth	DH	Action
<input type="checkbox"/>	conn1*	Aggressive	fvx_local.com	fvx_remote.com	3DES	SHA-1	Group 2 (1024 bit)	edit

* Client Policy

[select all](#) [delete](#) [add ...](#)

Modifying the Remote Endpoint Address

1. From the **VPN** menu, select the **Policies** submenu.
2. Select the **VPN Policies** tab, and click **Edit** for the VPN policy you created (in this example conn1)..
3. From the **Edit VPN Policy screen**, under **Remote Endpoint**, select the **FQDN** radio button, and then change the address from fvx_remote.com to 0.0.0.0.

[Edit VPN Policy](#)

Operation succeeded.

General help

Policy Name:

Policy Type:

Select Local Gateway: ☒ WAN1 ☐ WAN2

Remote Endpoint: ☐ IP Address:

☒ FQDN:

☐ Enable NetBIOS?

4. Select the **IKE Policies** tab to verify that the VPN policy of 0.0.0.0 is in the list.

[IKE Policies](#) [VPN Policies](#)

List of IKE Policies help

	Name	Mode	Local ID	Remote ID	Encr	Auth	DH	Action
<input type="checkbox"/>	conn1*	Aggressive	fvx_local.com	0.0.0.0	3DES	SHA-1	Group 2 (1024 bit)	edit

* Client Policy

[select all](#) [delete](#) [add ...](#)

Setting the Remote Endpoint Address for a Manually Created VPN Policy

After you manually add an IKE and VPN policy, you can manually set the remote endpoint address.

To manually set the remote endpoint address:

1. From the **VPN** menu, select the **Policies** submenu.
2. Select the **VPN Policies** tab, and then click **Edit** for the VPN policy you want to edit (in this example, conn1.).
3. When the **Edit VPN Policy** screen displays, set the **Remote Endpoint** to **FQDN**, and type **0.0.0.0**
4. From the **Remote IP** drop-down menu, select Any.

Edit VPN Policy

Operation succeeded.

General ? help

Policy Name: conn1

Policy Type: Auto Policy

Select Local Gateway: ☒ WAN1 ☐ WAN2

Remote Endpoint: ☐ IP Address: 0.0.0.0

☒ FQDN: 0.0.0.0

☐ Enable NetBIOS?

Traffic Selection ? help

Local IP: Subnet Remote IP: Any

Start IP Address: 192.168.1.0 Start IP Address: 0.0.0.0

End IP Address: 0.0.0.0 End IP Address: 0.0.0.0

Subnet Mask: 255.255.255.0 Subnet Mask: 0.0.0.0

If these two fields are configured correctly, the policy will appear as a policy with an * in the IKE and VPN policy tables showing that they are configured as client policies. If the FQDN field contains 0.0.0.0, the behavior of this policy will be identical to a policy configured using the VPN Wizard.

Conclusion

This configuration can support remote endpoint having dynamic IP address without using an FQDN name.

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