

Configuration Aid To Ingate Firewall - PPTP Passthrough - Server on the Inside



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PPTP client on the outside

For various reasons, you might want to use a separate PPTP server behind the firewall instead of the built-in firewall server. If the PPTP server is located on a non-NATed network, this is very simple. If NAT is involved, some more settings are required. Here, such a setup is shown.

Networks and Computers

First, create a network for the PPTP server on the **Networks and Computers** page under **Network**.

Edit Row	Name	Subgroup	Lower Limit		Upper Limit (for IP ranges)		Interface/VLAN	Delete Row
			DNS Name or IP Address	IP Address	DNS Name or IP Address	IP Address		
<input type="checkbox"/>	All	-	0.0.0.0	0.0.0.0	255.255.255.255	255.255.255.255	-	<input type="checkbox"/>
<input type="checkbox"/>	Internet	-	0.0.0.0	0.0.0.0	255.255.255.255	255.255.255.255	External (eth1 untagged)	<input type="checkbox"/>
<input type="checkbox"/>	Office network	-	10.10.0.0	10.10.0.0	10.10.0.255	10.10.0.255	Internal (eth0 untagged)	<input type="checkbox"/>
<input type="checkbox"/>		-	10.47.0.0	10.47.0.0	10.47.255.255	10.47.255.255	Internal (eth0 untagged)	<input type="checkbox"/>
<input type="checkbox"/>	PPTP server	-	172.16.0.5	172.16.0.5			DMZ (eth2 untagged)	<input type="checkbox"/>

Relays

Go to the **Relays** page under **Rules and Relays** and create a TCP relay which should listen to port 1723 on the firewall outside and forward the traffic to the PPTP server. Select TCP port forwarding as the **Relay type**.

The client should connect to the outside firewall IP address.

Edit row	Listen to ...		Relay to ...			Relay type	Allow access from ...		Time class	Log class	Delete row
	IP address	Port	DNS name or IP address	IP address	Port		Network	IPsec peer			
<input type="checkbox"/>	Outside (193.12.253.115)	1723	172.16.0.5	172.16.0.5	1723	TCP port forwarding	Internet	-	24/7	Local	<input type="checkbox"/>

Services

Then, go to the **Services** page under **Rules and Relays** and define the service to manage the NATed PPTP traffic. Use TPC as the **Protocol**, Dynamic PPTP management as the **Firewall type**, and **Server ports** 1723. Give the new service a descriptive name.

Rules	Relays	DHCP Relay	Services	Protocols	Time Classes
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Services								
Edit row	Name	Subgroup	Protocol	Firewall type	Client ports	Server ports	ICMP type	Delete row
<input type="checkbox"/>	+ PPTP passthrough	-	TCP	Dynamic PPTP management	1-65535	1723		<input type="checkbox"/>

Rules

Go to the **Rules** page and create a rule to let the PPTP traffic through from the PPTP server to the Internet. Use the newly created service. This is needed to let the GRE traffic through.

Note that this rule must be higher up in your rule list than any other rules allowing traffic from the network where the PPTP server is located.

Rules	Relays	DHCP Relay	Services	Protocols	Time Classes
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Rules													
Edit Row	Rule No.	Active	Client	From IPsec Peer	Server	To IPsec Peer	Direction	Service	Action	Time Class	Log Class	Comment	Delete Row
<input type="checkbox"/>	1	Yes	PPTP server	-	Internet	-	DMZ -> External (NAT:ed)	PPTP passthrough	Allow	24/7	Local		<input type="checkbox"/>

Save/Load Configuration

Finally, go to the **Save/Load Configuration** page under **Administration** and apply the new settings by pressing **Apply configuration**.

Save/Load Configuration	Show Configuration	User Administration
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Test Run and Apply Conf [\(Help\)](#)

Duration of limited test mode:

seconds

When the configuration has been applied, you should save a backup to file. Press **Save config to CLI file** to save the configuration.

Save/Load CLI Command File (Help)			
The permanent configuration might be affected by loading a CLI file.			
<input type="button" value="Save config to CLI file"/>	<input type="button" value="Load CLI file"/>	Local file: <input type="text"/>	<input type="button" value="Browse..."/>