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pfSense Version 2.4.5 Open VPN Configuration Guide

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Configuring a pfSense running version 2.4.5 for SSL VPN.

This document outlines how to configure a pfSense for MFA protection with Censornet MFA.

To complete the setup, it is required that you have a pfSense VPN product, a Microsoft radius server (NPS), and an installation of the Censornet MFA Authentication Client Software powered by SMS PASSCODE. Please refer to the Censornet support site for further guidance to install the Censornet MFA Authentication Client Software.





## The Radius Server.

To configure the pfSense with the Censornet MFA protected radius server, navigate to System, User manager, Authentication Servers.

	SE, Syst	em <del>-</del>	Interfaces +	Firewall <del>+</del>	Services +	VPN +	Status +
Syster	m / User	Mana	ger / Auth	entication	Servers / E	Edit	
Users	Groups	Setting	is Authenti	ication Servers	-		



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#### On the screen select the Add button

ers Groups S	Settings Authentication Servers	
rver Settings		
Descriptive name	Censornet MFA	
Туре	RADIUS	
DIUS Server Settin	ngs	
Protocol	PAP 🗸	
stname or IP address	192.168.230.10	
Shared Secret		
Services offered	Authentication and Accounting	
Authentication port	1812	
Accounting port	1813	
thentication Timeout	60 This value controls how long, in seconds, that the RADIUS server may take to respond to an authent seconds. NOTE: If using an interactive two-factor authentication system, increase this timeout to an and enter a token.	tication request. If left blank, the default value is 5 ccount for how long it will take the user to receive
IUS NAS IP Attribute	LAN - 192.168.230.254	

Descriptive name: Choose a friendly name.

Type: RADIUS

Protocol: PAP

Hostname or IP address: the name or IP address of the Censornet MFA protected radius server

Server Secret: The same shared secret that you have entered in the radius server's radius client.

Authentication port: 1812

Authentication Timeout: 60

RADIUS NAS IP Attribute: Select the LAN interface.





# **OpenVPN Setup**

Navigate to VPN, OpenVPN, Servers add a new VPN server or edit an existing one.

	System	<ul> <li>Interfaces -</li> </ul>	Firewall -	Services -	VPN *	Status •
VPN/ C	penVPN	/ Servers / E	dit			
Servers	Clients	Client Specific Over	rides Wizard:	s Client Exp	ort Sh	ared Key Export

Change the Server mode to "Remote Access (User Auth), Under the section Backend for authentication, Select the newly created Censornet MFA radius server.

rvers	Clients	Client Specific Overrides	Wizards	Client Export	Shared Key Export	
eneral Inf	ormation					
	Disabled	<ul> <li>Disable this server</li> <li>Set this option to disable</li> </ul>	this server wit	thout removing it fro	m the list.	
Se	rver mode	Remote Access ( User A	Auth )		~	
Bauth	ackend for ientication	Censornet MFA Local Database			* *	
	Protocol	TCP on IPv4 only			~	
Det	vice mode	tun - Layer 3 Tunnel Mo "tun" mode carries IPv4 a "tap" mode is capable of	de nd IPv6 (OSI la carrying 802.3	ayer 3) and is the mo (OSI Layer 2.)	v ost common and compa	tible mode across all platforms.
	Interface	WAN The interface or Virtual IF	address whe	re OpenVPN will rec	v eive client connections.	
	Local port	443 The port used by OpenVP	N to receive c	lient connections.		
D	escription	Censomet MFA VPN Ser A description may be enter	ver ered here for a	idministrative refere	nce (not parsed).	





By default, pfSense renegotiates the VPN connection every 3600 (1 hour) which means users will need to re-authenticate with MFA.

To change this time out, go to the Advanced Configuration, Custom options and use the "reneg-sec" command to the required time, this example of 43200 is 12 hours.

Custom options	reneg-sec 43200	
	10 The second	

Complete the setup of your pfSense by configuring the required policy that allows traffic from the SSL VPN interface to the internal Lan, for further assistance please refer to your pfSense documentation.

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### **User Experience**

At the time of release, the OpenVPN client does not fully support challengeresponse. When a user connects to the pfSense VPN, they will enter their Active Directory Username and Password.

Censomet.user	
censomet.use(	1
	1
word	
Cancel	
	1
	Cancel

The OpenVPN will provide a "soft.auth-failure" leave the username the same but now enter the OTP, and your authentication request will be successful.

OpenVPN Connection	0	×	- 🗆 ×
Current State: Reconnects Fir Oct 09 10 12:49 2020 Fir Oct 09 10 12:49 2020 Fir Oct 09 10 12:49 2020 Fir Oct 09 10 15:58 2020 Fir Oct 09 10 15:59 2020 Fir Oct 09 10 15:00 2020	Lisemanie censomet.use Password:	s SLIJ (L20 2.10 (A) THE ETI Cancel Lin memory F_INETI d. process red,ating	24   PKCS11  (AEAE T111   nonblock y - use the auth-rocad
¢			>
Bytes in: 0 B out: 56 B		OpenVPN	GUI 11.14.0.0/2.4.8
Disconnect	Reconnect		Hide