## **SNMP** activation on a Pfsense firewall

Once connected, you will be taken to the firewall dashboard as shown in the image below.

System Informat	nfSense localdomain	8 Netgate	Service	es And Support	00	
User	admin@192.168.1.21 (Local Database)	Retrieving s	Retrieving support information			
System	VirtualBox Virtual Machine Netgate Device ID: 8c528b5b2a4f25dff0b0					
BIOS	Vendor: <b>innotek GmbH</b> Version: <b>VirtualBox</b> Release Date: <b>Fri Dec 1 2006</b>	Interface	es ↑	1000baseT <full-duplex></full-duplex>	<b>کر</b> 0.0.0.0	
Version	2.4.5-RELEASE-p1 (amd64) built on Tue Jun 02 17:51:17 EDT 2020 FreeBSD 11.3-STABLE The system is on the latest version.	<u> </u>	т	1000base1 <tull-duplex></tull-duplex>	192.168.1.42	
СРИ Туре	Intel(R) Core(TM) i9-9900K CPU @ 3.60GHz AES-NI CPU Crypto: Yes (inactive)					
Kernel PTI	Enabled					
MDS Mitigation	Inactive					
Uptime	00 Hour 13 Minutes 42 Seconds					
Current date/time	Tue Jun 30 16:34:36 UTC 2020					
DNS server(s)	• 127.0.0.1					
Last config change	Tue Jun 30 16:24:40 UTC 2020					
State table size	0% (263/96000) Show states					
MBUF Usage	0% (1016/1000000)					
Load average	0.32, 0.34, 0.26					
CDILucado						

Go to the service menu in the top centre and in the drop-down menu you will see an SNMP menu. Click on it.

COMMUNITY EDITION	tem 🗸 Interfaces 🖌 Firewall 🗸	Services - VPN -	- Status	► D	iagnostics 👻	Help <del>-</del>	•
Status / Dashboard		Auto Config Backup Captive Portal DHCP Relay DHCP Server	Netgate	Service	es And Suppo	ort	+ 0
Name	pfSense.localdomain	DHCPv6 Relav	Detrieving		formation 💏		
User	admin@192.168.1.21 (Local Database)	DHCPv6 Server & RA	Retrieving	support ir	iformation 👽		
System	VirtualBox Virtual Machine Netgate Device ID: <b>8c528b5b2a4f25df</b>	DNS Forwarder DNS Resolver					3
BIOS	Vendor: innotek GmbH Version: VirtualBox Release Date: Fri Dec 1 2006	Dynamic DNS IGMP Proxy	Interface	AS	1000baseT <	full-duplex>	0.0.0
Version	2.4.5-RELEASE-p1 (amd64) built on Tue Jun 02 17:51:17 EDT 2020 FreeBSD 11.3-STABLE The system is on the latest version.	Load Balancer NTP PPPoE Server	🕁 LAN	T	1000baseT <	full-duplex>	192.168.1.42
СРИ Туре	Intel(R) Core(TM) i9-9900K CPU @ 3.6( AES-NI CPU Crypto: Yes (inactive)	UPnP & NAT-PMP					
Kernel PTI	Enabled	Wake-OII-LAIN					
MDS Mitigation	Inactive						
Uptime	00 Hour 13 Minutes 48 Seconds						
Current date/time	Tue Jun 30 16:34:42 UTC 2020						
DNS server(s)	• 127.0.0.1						
Last config change	Tue Jun 30 16:24:40 UTC 2020						
State table size	0% (278/96000) Show states						
MBUF Usage	0% (1016/1000000)						
Load average	0.37, 0.35, 0.26						
CPU usage	5%						
Memory usage	14% of 968 MiB						
CWAD Usada							

In the menu, tick "Enable the SNMP Daemon and its controls". If you wish, you can fill in the "system location" and "system contact". Change the community so as not to leave "public".

Check that all SNMP modules are ticked.

Finally, make the SNMP agent listen on the interface you want (here the LAN interface).

SNMP Daemon	
Enable	Enable the SNMP Daemon and its controls
SNMP Daemon Settin	ıgs
Polling Port	161
	Enter the port to accept polling events on (default 161).
System Location	Liege
System Contact	support@esia-sa.com
Read Community String	public The community string is like a password, restricting access to querying SNMP to hosts knowing the community string. Use a strong value here to protect from unauthorized information disclosure.
SNMP Traps Enable	
Enable	Enable the SNMP Trap and its controls
SNMP Modules	
SNMP modules	<ul> <li>MibII</li> <li>Netgraph</li> <li>PF</li> <li>Host Resources</li> <li>UCD</li> <li>Regex</li> </ul>
Interface Binding	
Bind Interfaces	All LAN Localhost
	B Save

Click on "save" and wait for the SNMP daemon loading message. The SNMP agent for your Pfsense is now activated.

Be sure to check the firewall rules on your Pfsense.



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