## **Activating SNMP on an OPNsense firewall**

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

₩ OPN <mark>sense'</mark> <								root@OP	Nsense.locald	omain Q			
🖵 Lobby		Lobby: Dachboard										1	
Dashboard	æ	LODDy. Dashboard									Add widget	2 columns	*
License	<u>4</u> 2												
Password	a,	System Information		/ - ×	<u>Serv</u>	vices						1-	- ×
Logout	۲	Name	OPNsense.localdomain	minimize	Serv	vice		Description				Status	
📥 Reporting		Versions	OPNsense 20.1-amd64 FreeBSD 11.2-RELEASE-p16-HBSD		confi	figd		System Configuration Da	emon				-
System 3			OpenSSL 1.1.1d 10 Sep 2019		upin	iller		Gateway Monitor (WAN_	3¥¥V4)				-
🛔 Interfaces		Updates	Click to check for updates.		ifgro	oups		Interface groups				2	
✤ Firewall		СРИ Туре	Intel(R) Core(TM) i9-9900K CPU @ 3.60GHz (1 cores)		login	n		Users and Groups				▶ 2	
VPN		CPU usage	100		ntpd	d		Network Time Daemon					
Services			0		pf			Packet Filter				0	
🖉 Power		Load average	1.27, 0.35, 0.13		sysla	og-ng		Remote Syslog					
Help		Uptime	00:00:24		sysla	ogd		Local Syslog					
		Current date/time	Thu Jul 2 18:20:08 CEST 2020		unbe	ound		Linbourd DNS					5
		Last config change	Thu Jul 2 18:19:48 CEST 2020		unoc	ound		UNDUNA DIG					-
		State table size	0 % (171/98000)		Gate	eways						1 -	- ×
		MBUF Usage	1 % (760/61552)		Nam	ne		RTT	RTTd	Loss	Statu	IS	
		Memory usage	14 % (148/987 MB)		WAN	_GWv4		2.4 ms	0.4 ms	0.0 %	6 Onlin		
		Disk usage	11% / [ufs] (1.5G/15G)		192.1	168.1.1						-	
					WAN_	LDHCP6		~	~	~	Onlin	3	
					Inter	erfaces						1 -	- ×
					≓ L	LAN	•	1000baseT <full-duplex></full-duplex>		192.168.1.43			
					≓ ¥	WAN	1	1000baseT <full-duplex></full-duplex>		192.168.1.53 2a02:a03f:40f	2:cd00:a00:27ff:fec6:	:490e	
		OPNsense (c) 2014-2020 Deciso B.V.											

First you need to install the NET-SNMP agent, go to "System" and then click on "Plugins".

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묘 Lobby		Labler Daabhaand										
📥 Reporting		Lobby: Dashboard									Add widget	2 columns 👻
🗃 System		1										
Access		System Information		/ -	*	<u>Services</u>						
Configuration	5	Name	OPNsense.localdomain			Service		Description				Status
Firmware		Versions	OPNsense 20.1-amd64			configd		System Configuration Da	emon			2
Updates			OpenSSL 1.1.1d 10 Sep 2019			dpinger		Gateway Monitor (WAN_	GWv4)			2
Plugins	2	Updates	Click to check for updates.			ifgroups		Interface groups				D C
Packages	_	СРИ Туре	Intel(R) Core(TM) i9-9900K CPU @ 3.60GHz	z (1 cores)		login		Users and Groups				C
Changelog		CPU usage	100			ntpd		Network Time Daemon				
Settings			0		-	pf		Packet Filter				
Reporter		Load average	1.17, 0.35, 0.13			syslog.ng		Remote Syslog				
Log File		Uptime	00:00:29			system is		Level Conten				
Gateways	7	Current date/time	Thu Jul 2 18:20:13 CEST 2020			systoga		Local Syslog				
High Availability		Last config change	Thu Jul 2 18:19:48 CEST 2020			unbound		Unbound DNS				2
Routes	Ŧ	State table size	0 % (17	71/98000)		Gateways						2 - X
Settings	¢°	MBUF Usage	1 % (76	50/61552)		Name		RTT	RTTd	Loss	Status	
Trust	•	Memory usage	15 % (15	53/987 MB)		WAN GWv4		2.2 ms	0.6 ms	0.0 %	Online	
Wizard	~	Disk usage	11% / [ufs	i] (1.5G/15G)		192.168.1.1		4-4-11-4	0.0113	0.0 /0	Other	
Log Files	۲					WAN_DHCP6		~	~	~	Online	
Diagnostics	(C)					~						
🛔 Interfaces						Interfaces						1 - ×
🚯 Firewall							•	1000baseT <full-duplex></full-duplex>		192.168.1.43		
VPN						≓ wan	•	1000baseT <full-duplex></full-duplex>		192.168.1.53		
Services										2a02:a03f:40f2	cd00:a00:27ff:fec6:4	00e
🖉 Power												
Help												
		OBMeeners (c) 2014-2020 Desire B.V.										
		ormaense (c) 2024-2020 Deciso B.V.										

In the drop-down list, search for "os-net-snmp" and click on the small "+" to the right.

## Last update: 2023/11/09 18:09

## en:snmp:snmp\_opnsense https://wiki.esia-sa.com/en/snmp/snmp\_opnsense

₩ EDPNsense <					root@OPNsense.localdomain	Q
Lobby		os-helloworld	1.3	19.1KiB	A sample framework application	0 +
A Reporting		os-igmp-proxy	1.5	22.4KiB	IGMP-Proxy Service	0 +
System		os-intrusion-detection-content-et-pro	1.0.1	4.64KiB	IDS Proofpoint ET Pro ruleset (needs a valid subscription)	0 +
Access	쓭	os-intrusion-detection-content-pt-open	1.0	425B	IDS PT Research ruleset (only for non-commercial use)	0 +
Configuration	ອ	os-intrusion-detection-content-snort-vrt	1.1	12.4KiB	IDS Snort VRT ruleset (needs registration or subscription)	0 +
Firmware		os-iperf	1.0	24.3KiB	Connection speed tester	0 +
Updates		os-l2tp	1.9	47.4KiB	End of life, no replacement	0 +
Plugins		os-lcdproc-sdeclcd	1.1	629B	LCDProc for SDEC LCD devices	0 +
Packages		os-lldpd	1.1	16.3KiB	LLDP allows you to know exactly on which port is a server	0 +
Settings		os-mail-backup	1.1	11.4KiB	Send configuration file backup by e-mail	0 +
Reporter		os-maltrail	1.5	39.9KiB	Malicious traffic detection system	0 +
Log File		os-mdns-repeater	1.0	14.4KiB	Proxy multicast DNS between networks	0 +
Gateways	1	os-munin-node	1.0	14.7KiB	Munin monitorin agent	Install
High Availability	0	os-net-snmp	1.4	26.7KiB	Net-SNMP is a daemon for the SNMP protocol	0 +
Koutes	+	os-netdata	1.0	17.0KiB	Real-time performance monitoring	0 +
Trust	~	os-nginx	1.19	805KiB	Nginx HTTP server and reverse proxy	0 +
Wizard	2	os-node_exporter	1.0	17.8KiB	Prometheus exporter for machine metrics	0 +
Log Files	۲	os-nrpe	1.0_1	25.4KiB	Execute nagios plugins	0 +
Diagnostics	(Ĉ)	os-ntopng	1.2	20.3KiB	Traffic Analysis and Flow Collection	0 +
A Interfaces		os-nut	1.7	38.3KiB	Network UPS Tools	0 +
🚯 Firewall		os-openconnect	1.4.0	22.7KiB	OpenConnect Client	0 +
VPN		os-postfix	1.14_1	138KiB	SMTP mail relay	0 +
Services		os-pppoe	1.8	54.0KiB	End of life, no replacement	0 +
🖋 Power		os-pptp	1.9	54.2KiB	End of life, no replacement	0 +
Help		os-redis	1.1	68.2KiB	Redis DB	0+
			2.4	100410	Poloci I col Polocio	
		OPNsense (c) 2014-2020 Deciso B.V.				

## If the installation went well, you will get this message:



You need to reload the menu on the left and click on "lobby", for example.

Now go to the "Services" menu and a new line will appear in it: "Net-SNMP". Click on it.

This screen appears:

Image: Contract of the service of	
L Lobby Services: Net-SNMP	
Reporting     Services: Net-SNMP     System	
System	
Linterfaces Ueneral SMM*Y3 USERS	
59 Firewall	full help 🕥
VPN     O Enable SNMP Service	
Services     O SHMP Community	
Captive Portal 0 SNMP Location	
DHCPv4	
DHCPv6      SNMP Contact	
Drismasq DNS 🗣 e Layer 3 Visibility	
Dynamic DNS Display Version in OID	
Intrusion Detection 0 O Listen IPs	
Monit Clear All	
Network Time O	
Net/SNMP	
OpenDNS Save	
Unbound DNS S	
Web Proxy 9	
# Power	
Help	
OPHeme (c) 2014-2020 Deciso B.V.	

Check the "Enable SNMP Service" box. Enter the SNMP community as well as contact and location information. Also tick "Layer 3 Visibility". The last step is to enter the IP addresses to be listened to. In this example, I've entered the IP of my "LAN" interface.

I laby i	ZOPN <mark>sense</mark> <				root©OPNsense.localdomain Q	
is legenting   is legenting <th>🖵 Lobby</th> <th></th> <th>Services Net SNMD</th> <th></th> <th></th> <th></th>	🖵 Lobby		Services Net SNMD			
Sydem Sydem Sydem Finanto Vivi Sydem Potal Otorso O	A Reporting		Services: Net-SNMP			
interfaces         before         interfaces	E System					
i Freedil   VN   Services   Captice bratal   DicCrols   DicCrols   DicCrols   DicCrols   Dismang DNS   Display Centation   Display Centation <th>📥 Interfaces</th> <th></th> <th>General SNMPv3 Users</th> <th></th> <th></th> <th>_</th>	📥 Interfaces		General SNMPv3 Users			_
• Fwi       • Endels MP Service       • Endels MP Service       • Decements         • Services       • SNMP Community       • public         • Dict/ref       • SNMP Contact       • user         • Dict/ref       • SNMP Contact       • user         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Distanza DNS       • User Visibility       • User Visibility         • Verver       • Verver       • Cerver Visibility       • Cerver Visibility         • Verver       • Heip       • Heip       • Verver	🚯 Firewall				full help (	D
Services   Captive Portal   DHCPv4   DHCPv6   DhCPv6   Dnsmac DNS   Dynanic DNS   Intrusion Detection   Monit   OpenDNS   Unbound DNS   Web Proxy   Power   Heip	VPN		Enable SNMP Service	8		
Captive Portal       Image: Captive Portal <th>Services</th> <th></th> <th>SNMP Community</th> <th>public</th> <th></th> <th></th>	Services		SNMP Community	public		
DHCPv4     Image       DHCPv6     Image       DhsmasQ DNS     Image       DhsmasQ DNS     Image       Monit     Image       Image     Image       I	Captive Portal	A	SNMP Location			
DHCPv6 Imparted DNS   Drsmared DNS Imparted DNS   Dynamic DNS Imparted DNS   Imparted DNS Imparted DNS   Notic Imparted DNS   Notic Imparted DNS   Mont Imparted DNS   Mont Imparted DNS   OpenDNS Imparted DNS   Unbound DNS Imparted DNS   Verbory Imparted DNS   Imparted DNS Imparted DNS   Imparted DNS Imparted DNS   Verbory Imparted DNS   Imparted DNS Imparted DNS <t< td=""><td>DHCPv4</td><td>۲</td><td></td><td>nege</td><td></td><td></td></t<>	DHCPv4	۲		nege		
Dramarq DNS    Dynamic DNS    Dynamic DNS    Intrusion Detection    Intrusion Detection    Net SNMP    OpenDNS    Unbound DNS    Ve Proxy	DHCPv6		() SNMP Contact	support@esia-sa.com		
Dynamic DNS   Intrusion Detection   Intrusion Detection   Notit   Notit   Notit   OpenDNS   Unbound DNS   Veb Proxy   Veb Proxy   Veb Proxy   Veb Proxy   Veb Proxy	Dnsmasq DNS	۲	1 Layer 3 Visibility	2		
Intrusion Detection   Monit   Monit   Wetwork Time   OpenDix   OpenDix   Web Proxy   Y   Power   Heip	Dynamic DNS	۲	1 Display Version in OID			
Monit     Image: Constraint of C	Intrusion Detection	U	1 Listen IPs	102 169 1 42 ×		
Network Time     O       Net/SNNP     Image: Constraint of the second o	Monit	ŵ		192.106.1.45 A		
NetSNMP   OpenDNS   Ubound DNS   We Proxy   Power   Power   Heip	Network Time	0				
OpenDNS     Same       Unbound DNS     Main       Web Proxy     1       If Power     Main       Heip     Main	Net-SNMP		_			
Unbound DNS       Web Proxy       Power       Power       Help	OpenDNS	۲	Save			
Web Proxy Y IF Power C Help	Unbound DNS	۲				
✓ Power ✿ Help	Web Proxy	4				
✿ нер	🖋 Power					
	Help					

Click "Save" to apply the configuration. SNMP is now enabled on your OPNsense firewall.

