SNMP activation on a Fortinet firewall



This tutorial has been made available to the entire Esia community thanks to the contribution of our partner Rcarré.

Their website: https://www.rcarre.com

Via the WEB interface

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

FortiGate 30E			1 2 2 2	3	?	13	admi
孙 Dashboard	☆						
📥 FortiView	>	Unit Operation					
+ Network	>						
🔅 System	>	FortiCloud FortiManager FortiAP					
Policy & Objects	>						
Security Profiles	>	FORTIGATE SOE					
U VPN	>	FortiClient					
💄 User & Device	>						
奈 WiFi & Switch Controller	>						
Log & Report	>						
Monitor	>	Interface History					
						Interfac	e: wan
					~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-
		12M 16:20 16:25	16:3	10			

Click on "System" and then on "SNMP" to go to the SNMP configuration page. As shown below:

FortiGate 30E						?	?	- 53	admin <del>-</del>
<ul> <li>Dashboard</li> <li>▲ FortiView</li> <li>+ Network</li> </ul>	>	<ul> <li>SNMP Agent</li> <li>Description</li> <li>Location</li> <li>Contact</li> </ul>	Enable						
System Administrators Admin Profiles	~	SNMP v1/v2c	Apply						
Settings HA	_		Community Name	Queries	Traps			Enable	
SNMP	☆	🔾 Create New 💋	Edit 📋 Delete						
Replacement Messages FortiGuard Cooperative Security		FortiGate SNMP MI	User Name	Security Level	Notification Host			Queries	
Fabric Advanced		Download FortiGate N Download Fortinet Co	MIB File ore MIB File						
Feature Select									
Policy & Objects	>								
Security Profiles	>								
D VPN	>								
💄 User & Device	>								
🗢 WiFi & Switch Controller	>								
Log & Report	>								

Tick the "Enable" box and enter the description, location and contact. Then click on "Apply". Now you need to create the SNMP community. Just below the "Apply" button, click on "Create New".

FortiGate 30E		-						
🚯 Dashboard	^	SNMP Agent	🖂 Enable					
📥 FortiView	>	Description	Test					
↔ Network	>	Location Contact	test test@test.com					
🔅 System	~		Apply					
Administrators								
Admin Profiles		Create New Create New Collecter						
Settings			Queries					
НА								
SNMP	5	SNMP v3	1					
		Create New 2 Ed	dit 🛄 Delete					
Replacement Messages			User Name	Security Level				
FortiGuard								
Cooperative Security		FortiGate SNMP MIB						
Fabric		Download FortiGate MIB	File					

On the page that appears, enter the SNMP community, the IP address of your Esia server or your unity in the HOST field and tick the boxes as shown below. Then click on "Apply".

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FortiGate 30E	<b>186,</b> 8							: ()	?	?	53	admin
🕐 Dashboard	☆ ^			Ne	w SNMP Comm	unity						
FortiView	>	Community Name										
+ Network	>											
System	~	IP Address/Netmask	Host Ty	ре	Dele	ete						
Administrators			Accept	queries and send traps	~	â						
Admin Profiles		Add										
Settings												
114		Queries:										
HA		Protocol	Port				Enable					
SNMP		v1	161				$\checkmark$					
Replacement Messages		v2c	161				$\checkmark$					
FortiGuard		Traps:										
l of fload a		Protocol	Local		Remote		Enable					
Cooperative Security Fabric		v1	162		162	]	$\checkmark$					
Advanced		v2c	162		162	]	$\checkmark$					
Advanced		SNMP Events										
Feature Select			Memory is low									
📕 Policy & Objects	>	✓ Log disk space is low	✓ Interface IP is	changed								
Security Profiles	>	✓ VPN tunnel up	✓ VPN tunnel do	- wn								
U VPN	>	WiFi Controller AP up	ViFi Controller	AP down								
💄 User & Device	>	FortiSwitch Controller Session up	FortiSwitch Co	ntroller Session down								

Now you need to authorise the SNMP protocol on the LAN interface of your firewall. To do this, go to the "Network" menu and then "Interface". Then tick the SNMP box in "Restrict Access".

FortiGate 30E	A.088	100 100	?	?	11	admin
🚯 Dashboard	Edit Interface					
FortiView	> Interface Name Ian					
🕂 Network	V 1 Type Hardware Switch					
Interfaces	Physical Interface Members					
DNS						
WAN LLB	Role 1					
WAN Status Check						
WAN LLB Rules	Address					
Routing	Addressing mode Manual DHCP PPPoE Dedicated to FortiSwitch					
🔅 System	> IP/Network Mask /255.255.255.0					
Policy & Objects	> Restrict Access					
Security Profiles	Administrative Access U HTTPS U PING U HTTP U FMG-Access U CAPWAP					
U VPN	SSH     SNMP     RADIUS Accounting					
🛔 User & Device	> FortiTelemetry					
奈 WiFi & Switch Controller	> C DHCP Server					
lll Log & Report	Address Range					
I Monitor	Create New					
	Starting IP End IP					

Click "Apply" to save the configuration.

SNMP is now enabled on your Fortigate firewall.

## Via CLI/SSH

Once connected via SSH, you can type the following commands to activate SNMP. You will obviously need to adapt the description/contact/location fields.

```
config system snmp sysinfo
  set status enable
  set description "ce que je veux"
   set contact-info "absent"
```

set location "Liège"

end

Now that SNMP has been activated, we need to configure the SNMP community using the following commands:

Don't forget to change the community to "public".

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