

A high-angle photograph of a person wearing an orange and white checkered button-down shirt, sitting on a dark grey textured surface and typing on a silver laptop. The person's hands are visible, with red nail polish and a ring on the left hand. The laptop is open, and the keyboard is clearly visible. The background is dark and out of focus.

SNMP V1,2 and 3 with MikroTik Routers

By : Haydar Fadel

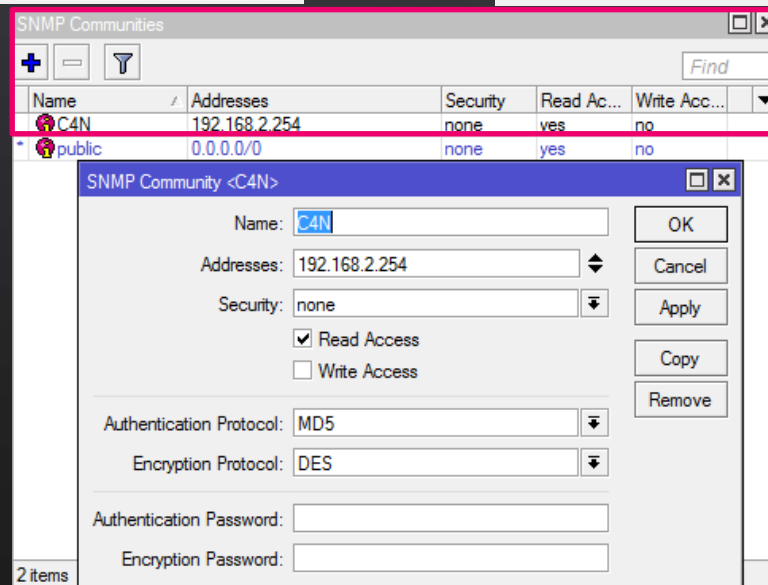
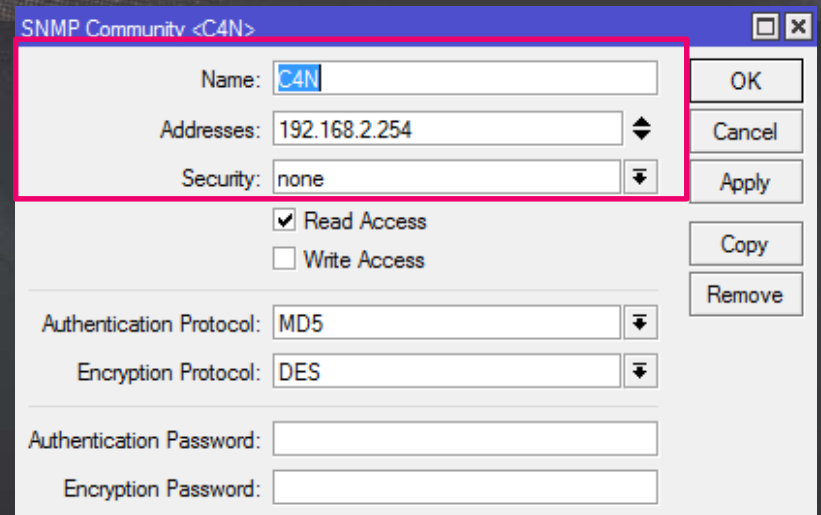
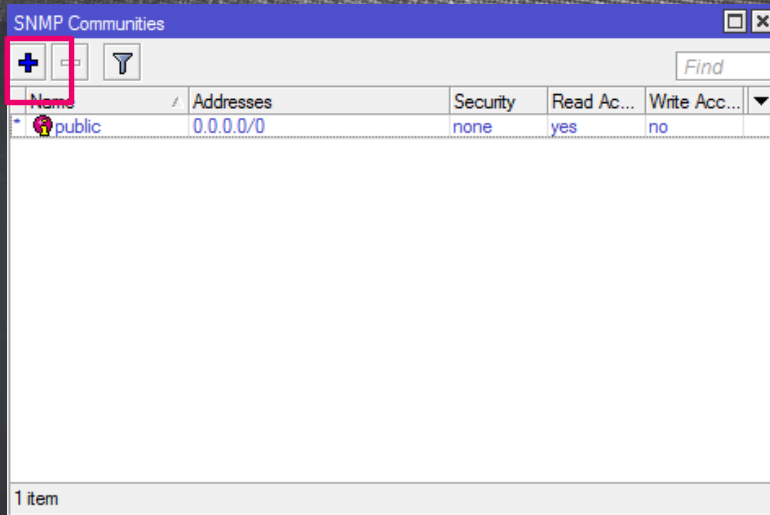
SNMP Setup

A screenshot of a network configuration menu. The menu is organized into two columns. The left column contains items such as IP, IPv6, MPLS, Routing, System, Queues, Files, Log, Radius, Tools, New Terminal, MetaROUTER, Partition, Make Supout.rif, Manual, New WinBox, and Exit. The right column contains items such as ARP, Accounting, Addresses, Cloud, DHCP Client, DHCP Relay, DHCP Server, DNS, Firewall, Hotspot, IPsec, Neighbors, Packing, Pool, Routes, SMB, SNMP, Services, Settings, Socks, TFTP, Traffic Flow, UPnP, and Web Proxy. The 'SNMP' item in the right column is highlighted with a red rectangular box.

A screenshot of the 'SNMP Settings' dialog box. The 'Enabled' checkbox is checked and highlighted with a red rectangular box. Below it, the 'Contact Info' field contains 'C4N' and the 'Location' field contains 'Baghdad'. Other fields include 'Engine ID', 'Trap Target', 'Trap Community' (set to 'public'), 'Trap Version' (set to '1'), 'Trap Generators', and 'Trap Interfaces'. On the right side, there are buttons for 'OK', 'Cancel', 'Apply', and 'Communities'.

A screenshot of the 'SNMP Settings' dialog box, identical to the one above. In this view, the 'Communities' button on the right side is highlighted with a red rectangular box.

SNMP Setup



SNMP Version 1

PRTG Program will be used

Add Sensor Wizard

Device Selection
Please enter the device connection data

Device Name/Alias:

IP Address/DNS Name:

SNMP Version: **V1:** Most commonly used. Try this one if you are not sure!
 V2c: Supports 64 bit counters (use this e.g. for Gigabit links)
 V3: Supports authentication and/or encryption

SNMP Port: (Standard is '161')

SNMP Community String: (Standard is 'public')

Help
Please enter the so called "SNMP community string". By default this string is "public" (without the quotes), but the administrator of the device may have selected another string, e.g. to make it more secure.

< Back Next > Cancel

SNMP Version 1

PRTG Program will be used

Add Sensor Wizard

Sensor Selection
Please select the sensors to create

- #Main-Internet, Ethernet, Connected, 100000 kb/s, 32bit Counter
- #Local-PC, Ethernet, Connected, 100000 kb/s, 32bit Counter
- #3 (ether3), Ethernet, Not Connected, 0 kb/s, 32bit Counter
- #4 (ether4), Ethernet, Not Connected, 0 kb/s, 32bit Counter
- #5 (ether5), Ethernet, Not Connected, 0 kb/s, 32bit Counter
- #6 (wlan1), radio spread spectrum, Not Connected, 11000 kb/s, 32bit Counter

Hide ports with existing sensors

Select the value to monitor:

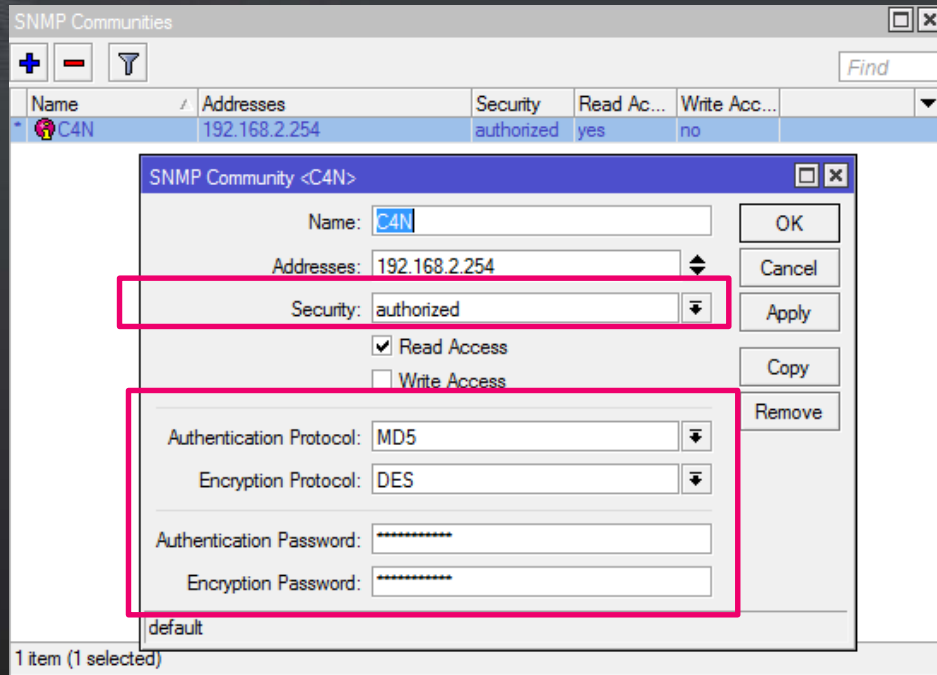
Info:
Connected to "RouterOS RB951Ui-2HnD"
Name: Haydar
Contact: C4N
Location: Baghdad

SNMP v3

To configure SNMPv3 all you need change the following :

1. Change security from None to authorized.
2. Authentication protocol will be MD5 (Default) or SHA1
3. encryption protocol will be DES (Default) or AES.
4. Authentication password
5. Encryption password

Note : SNMPv2c is the same SNMPv1 but with small security enhancements



SNMP v3

Add Sensor Wizard [X]

Device Selection
Please enter the device connection data

Device Name/Alias:

IP Address/DNS Name:

SNMP Version:

- V1:** Most commonly used. Try this one if you are not sure!
- V2c:** Supports 64 bit counters (use this e.g. for Gigabit links)
- V3:** Supports authentication and/or encryption

SNMP Port: [↑↓] (Standard is '161')

SNMP User:

Authentication Mode: MD5 SHA

Authentication Password:

Data Encryption Key (DES):


Help
Please enter a symbolic name for the device that you want to monitor (e.g. "My Router" or "Mail Server").

< Back Next > Cancel

SNMP v3

Add Sensor Wizard ✕

Sensor Selection

Please select the sensors to create 

- #Main-Internet, Ethernut, Connected, 100000 kb/s, 64bit Counter
- #Local-PC, Ethernut, Connected, 100000 kb/s, 64bit Counter
- #3 (ether3), Ethernut, Not Connected, 0 kb/s, 64bit Counter
- #4 (ether4), Ethernut, Not Connected, 0 kb/s, 64bit Counter
- #5 (ether5), Ethernut, Not Connected, 0 kb/s, 64bit Counter
- #6 (wlan1), radio spread spectrum, Not Connected, 11000 kb/s, 64bit Counter

Hide ports with existing sensors

Select the value to monitor:

Info:

Connected to "RouterOS RB951Ui-2HnD"
Name: Haydar
Contact: C4N
Location: Baghdad

A high-angle photograph of a person wearing an orange and white checkered button-down shirt, sitting on a dark grey textured surface and typing on a silver laptop. The person's hands are visible, with red nail polish and a ring on the left hand. The laptop keyboard is clearly visible. An orange horizontal bar is overlaid on the left side of the image, containing the text 'The END' in white.

The END

