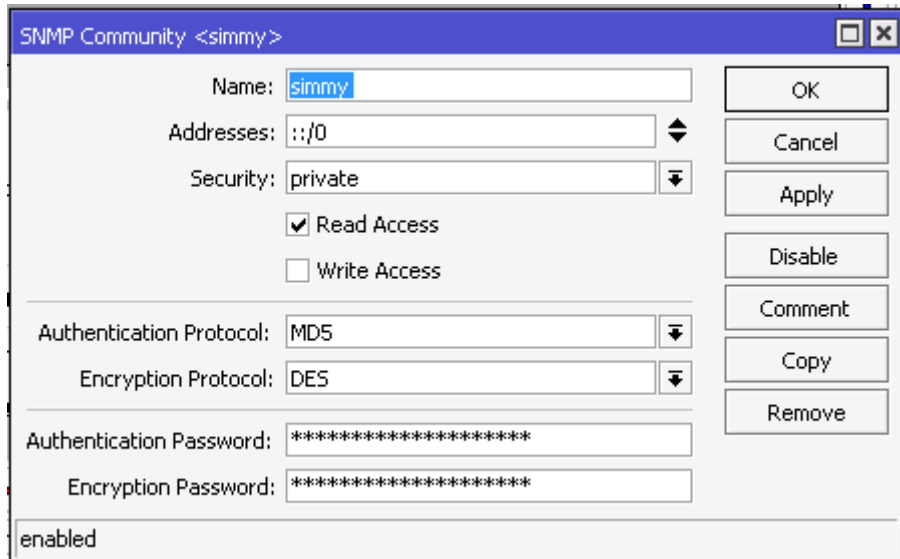


SNMP Configuration for mikrotik routers

Configuration on mikrotik

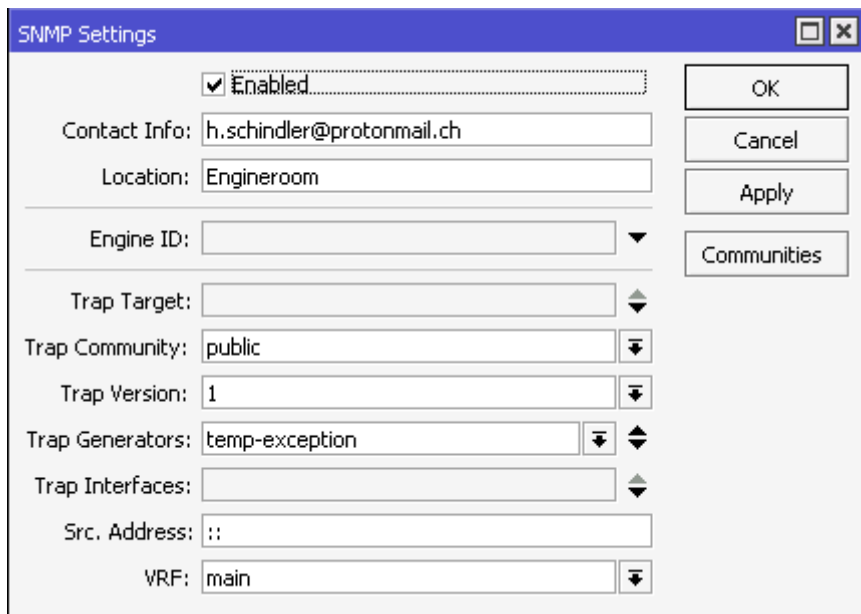
IP --> SNMP --> Communities

Create community simmy with high encryption



The screenshot shows the 'SNMP Community <simmy>' configuration window. The 'Name' field is 'simmy'. The 'Addresses' field is '::/0'. The 'Security' dropdown is set to 'private'. The 'Read Access' checkbox is checked, and the 'Write Access' checkbox is unchecked. The 'Authentication Protocol' dropdown is set to 'MD5', and the 'Encryption Protocol' dropdown is set to 'DES'. Both the 'Authentication Password' and 'Encryption Password' fields are masked with asterisks. On the right side, there are buttons for 'OK', 'Cancel', 'Apply', 'Disable', 'Comment', 'Copy', and 'Remove'. At the bottom left, the status 'enabled' is displayed.

Enable and select the trap community



The image shows a 'SNMP Settings' window with a blue title bar. It contains several configuration fields and buttons. The 'Enabled' checkbox is checked. The 'Contact Info' field is 'h.schindler@protonmail.ch' and the 'Location' is 'Engineroom'. The 'Engine ID' is an empty dropdown. The 'Trap Target' is an empty field with up/down arrows. The 'Trap Community' is 'public', 'Trap Version' is '1', and 'Trap Generators' is 'temp-exception', all with dropdown arrows. 'Trap Interfaces' is an empty field with up/down arrows. 'Src. Address' is '::' and 'VRF' is 'main', both with dropdown arrows. On the right, there are 'OK', 'Cancel', 'Apply', and 'Communities' buttons.

<input checked="" type="checkbox"/> Enabled	OK
Contact Info: h.schindler@protonmail.ch	Cancel
Location: Engineroom	Apply
Engine ID: [dropdown]	Communities
Trap Target: [up/down]	
Trap Community: public [dropdown]	
Trap Version: 1 [dropdown]	
Trap Generators: temp-exception [dropdown]	
Trap Interfaces: [up/down]	
Src. Address: :: [dropdown]	
VRF: main [dropdown]	

Configuration on checkmk

I created a folder for all mikrotik devices.

Folder properties

Setup > Hosts > Main > mikrotik > Folder properties

Folder Display Help ^

✓ Save 🔔 mikrotik

▼ Basic settings

Title mikrotik

▼ Network address

IP address family ☐ IPv4 only (Default value)

▼ Monitoring agents

Checkmk agent / API integrations ... ✖ No API integrations, no Checkmk agent ▼

SNMP ✖ SNMP v2 or v3 ▼

SNMP credentials ✖ Credentials for SNMPv3 with authentication and privacy (authPriv) ▼

Security Level authentication and encryption

Authentication protocol MD5 (MD5-96) ▼

Security name simmy

Authentication password *****

Privacy protocol CBC-DES ▼

Privacy pass phrase *****

▼ Custom attributes

Labels ☐ (Default value)

▼ Network Scan

Network Scan ✖

IP ranges to scan

IP-Range ▼
⌵ ✖ From: 192.168.1.50 To: 192.168.1.60

Add new IP range

IP ranges to exclude

Add new IP range

Scan interval

1 days 0 hours

Time allowed (required)

Add new element ✖ 00:00 - 24:00

Set IPv4 address

✖

Set criticality host tag

Do not monitor this h... ▼

☐ Parallel pings to send

Run as

cmkadmin (cmkadmin) ▼

☐ Translate Hostnames

Use the same community and passwords as above!

For the network scan I limited the IP-Range to the range where all mikrotik devices have their IP address.

On most of the devices I disabled the "Filesystem system disk" check, hence it would always trigger an alarm on the mikrotik defaults.

Services of host mt-engine02.simmy.ch

Setup > Hosts > Main > mikrotik > Properties of host mt-engine02.simmy.ch > Services of host mt-engine02.simmy.ch

Actions Host Settings Display Help ↻

✓ Accept all 🔥 Rescan + Monitor undecided services - Remove vanished services ⓘ Properties of host mt-engine02.simmy.ch

✓ All datasources are OK

- OK [snmp]: Success
- OK [piggyback]: Success (but no data found for this host)

Discovered host labels (1)

Status	Host labels
Active	cmk/device_type:router

Monitored services (9)

	State	Service	Summary
🔍 ⛔ 📊	OK	CPU utilization	Total CPU: 0%
🔍 ⛔ 📊	OK	Interface 01	[sfp-sfpplus1], (up), MAC: 48:8F:5A:93:8E:BD, Speed: 10 GBit/s
🔍 ⛔ 📊	OK	Interface 02	[sfp-sfpplus2], (up), MAC: 48:8F:5A:93:8E:BE, Speed: 10 GBit/s
🔍 ⛔ 📊	OK	Interface 03	[sfp-sfpplus3], (up), MAC: 48:8F:5A:93:8E:BF, Speed: 10 GBit/s
🔍 ⛔ 📊	OK	Interface 06	[sfp-sfpplus6], (up), MAC: 48:8F:5A:93:8E:C2, Speed: 10 GBit/s
🔍 ⛔ 📊	OK	Interface 08	[sfp-sfpplus8], (up), MAC: 48:8F:5A:93:8E:C4, Speed: 10 GBit/s
🔍 ⛔ 📊	OK	Memory	RAM: 11.85% - 60.7 MiB of 512 MiB
🔍 ⛔ 📊	OK	SNMP Info	RouterOS CRS309-1G-8S+, mt-engine02, engineroom, h.schindler
🔍 ⛔ 📊	OK	Uptime	Up since Sep 17 2023 13:12:33, Uptime: 90 days 3 hours

Disabled services (1)

	State	Service	Summary
+ 🔍 📊	WARN	Filesystem system disk	Used: 89.90% - 14.3 MiB of 15.9 MiB (warn/crit at 80.00%/90.00% t

Revision #3

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