

# How to reach remote devices behind NAT. Build your VPN concentrator with MikroTik!





Marco Boschini MikroTik Professionals Conference – Praha 2025

# About me

- Marco Boschini
- from Desenzano, Italy
- MikroTik Certified Trainer MTCNA, MTCRE, MTCINE, MTCWE, MTCSE, MTCTCE, MTCSWE, MTCEWE, MTCIPv6, MTCUME

Corsi MikroTik

• Founder Corsi MikroTik https://corsimikrotik.it















# Agenda

- Scenario of a remote device
- How to reach remote devices?
- NAT problem
- RouterOS as a VPN Server
- Basic routing concepts
- RouterOS as a VPN Client (main router)
- RouterOS as a VPN Client (not main router)







# Agenda

- How about if two or more customers have the same network subnet?
- How about security?
- Best VPN client to connect customers





# Scenario of a remote device

- Remote device can be a printer, PLC, TVCC system, Home Automation or similar device
- This device normally are behind a router, in a private network (LAN) without public IP.





# Scenario of a remote device



- Some devices can not implement security mechanism that are required today:
  - Authentication
  - Authorization
  - Encryption







# Authentication

- Authentication is used by server when the server needs
   to know exactly who is accessing their information or site.
- In authentication the user or computer has to **prove its identity** to the server or client.
- Usually, authentication entails the use of a **username**, **password**, **certificate**, **2FA**.





# Authorization

- Authorization is a process by which a server determines if the client has permission to use a resource.
- Authorization is usually coupled with authentication so that the server has some concept of the client who is requesting access.





# Encryption



• Encryption involves the process of transforming data so that it is unreadable by anyone who does not have a **decryption** key.







# Encryption



For example, HTTPS use encryption that use SSL (Secure Socket Layer) to protect data transitted over the web like credential (user/password), credit card number or information delivered as content.

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# **De facto protocols**



- Not all the devices/protocols support authentication, authorization and encryption.
- I worked for many years in the field of Building Automation.
- There are some protocols, developed many years ago, that is very simple, efficient and open (no royalties).
- These protocols have become a de facto standard, being implemented and used worldwide by many manufacturers.





#### Marco Boschini



# Modbus

- One of these is Modbus
- Developed by Modicon in the 1979.
- Today is propriety of Schneider Electric
- MikroTik implement that protocol in the IoT Packages for IoT devices (es: KNOT)

https://mikrotik.com/product/knot







## Modbus

- Modbus permit to exchange "raw" data within devices in a common binary language.
- You can read values from device
  - Eg. read a temperature or power
- You can write values to device
  - Eg. actuate a light or ventilation



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Image from https://www.johnsoncontrols.com/



Image from https://www.spluss.de/





## Modbus



- ModbusRTU communicate over serial bus (RS485)
- ModbusTCP communicate over TCP/IP protocols, TCP/502.







# **KNX**

- KNX is the first worldwide standard for Building Automation.
- Developed in the '90
- This is like the ethernet protocols for networking: simple, robust and future proof.
- Implemented by over 500 manufacturer worldwide
- More than 500 training centres.







# KNX

- The communication device-to-device is over bus cable Twisted Pair
- IP Connection is also possibile via KNXnet/IP from 2007
  - Unicast via UDP/3671
  - Multicast via IP address 224.0.23.12 UDP/3671 \_
- **IP Secure connection** is available from 2017











#### PREVENTING ACCESS TO THE NETWORK TO THE VARIOUS KNX PHYSICAL MEDIA





#### https://issuu.com/knxassociation/docs/knx-secure-position-paper\_en

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#### KNX

- I'm also an Official KNX Tutor
  Instructor
- At some point in my life I felt it was necessary to connect the dots regarding these technologies and helping people to build solid competency.







# The reason why

- This is the reason why I use (read "love" –) MikroTik:
  - It permits everyone to study networking and grow
  - It is affordable to utilize in every situation. (We need practice to familiarize and better understand.)
  - It is very flexibile
  - It helped me to solve problems a lot of times
  - Almost all devices have all the functionality (no need for money for extra license or subscriptions)

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# How to reach remote devices?



- To reach these devices there are multiple solutions:
  - DST-NAT ("port forwarding"):
     widely used in the past, not secure today.
  - Cloud

only if the manufacturer have a cloud implementation, not always available.

- VPN

Virtual private network, client can reach remote devices in a private local network over a Secure Tunnel connection with Authentication, Authorization and Encryption.





# **DST-NAT**

- DST-NAT is a function of the firewall NAT
- It permits to change two parameters in the IP packet
  - Destination IP address
  - Destination protocol port

/ip firewall nat
add chain=dst-nat \
in-interface=ether1 protocol=tcp dst-port=8080 \
action=dstnst to-address=192.168.1.10 to-port=80





# **DST-NAT** problem



- It is not secure because it expose devices on the WAN.
  - Everyone can try to login with bruteforce attack
  - Everyone can send a tons of IP packets to the device (DoS/DDoS).
  - You can limit access with firewall filter combined with Address List.
- It requires a public IP (also dynamic IP is OK).
  - With the lack of IPv4 address, today it can be difficult have a public IP address.
  - With Mobile data (4G/LTE) it's very hard to have a public IP address.



# Cloud

- Require a manufacturer implementation
- Data storage is on cloud.
- If it's available, it's ready-to-use.
- Reads "on someone else's computer"
- We have no control over.





## VPN

- Via VPN a secure direct connection can be created from a remote client (VPN Client) to the customer router (VPN Server)
- VPN Server MUST have a public IP to be reachable from remote VPN client.





VPN

- RouterOS implement different type of VPN Server for this scenario:
  - OpenVPN
  - WireGuard
  - L2TP/IPSec
  - SSTP
  - IPSec (require public and static address for both)
  - PPTP (please don't use it! It's not secure)





# **NAT problem**



- If the customer does not have a Public IP, the VPN Server can not be reachable from the customers
- A "relay server" is required





# **5 minutes OpenVPN Server**



- Now we are going to configure a RouterOS device to become a OpenVPN Server, with a mobile device as VPN Client.
- OpenVPN Require Certificate and credentials (user/password)
- OpenVPN permit to push routes to the client.
- It is possible to create multiple OpenVPN Server on the same device (eg. with different protocol: TCP and UDP)





# **OpenVPN - Certificate Authority**







# **OpenVPN - Server Certificate**









# **OpenVPN - Client Certificate**









# **OpenVPN - Export Certificate**









# **OpenVPN Certificate**



<u>ද</u> ු	Certificates	~	Certificates	SC	EP Servers	SCEP	RA	Requests	ΟΤΡ	CRL				
Ci New Remove														
	P	Na	ime	^	Issuer	Co	mm	ion Name	\$	Subjec	ct Alt. N	Key Size	Days Valid	Trusted
	KLAT	Ор	enVPN-CA			Ope	enV	'PN-CA				2048	3650	yes
	KI	Ор	enVPN-Client			Ope	enV	'PN-Client				2048	3650	no
	KI	Ор	enVPN-Server			Ope	∋nV	PN-Server				2048	3650	no

File List V File Cloud Backup											
Ct New Remove											
File Name	Туре	Size	Creation Time								
autosupout.rif	.rif file	332,9 KiB	2025-02-15 20:22:30								
<pre>Cert_export_OpenVPN-CA.crt</pre>	.crt file	1139 B	2025-02-15 20:45:34								
<pre>Client_copenVPN-Client.crt</pre>	.crt file	1111 B	2025-02-15 20:46:02								
cert_export_OpenVPN-Client.key	.key file	1886 B	2025-02-15 20:46:02								
	directory		2025-02-15 17:43:50								





# **OpenVPN Server Configuration**







# **OpenVPN Export .ovpn conf**





Result

progress: ovpn client configuration 'client1739653470.ovpn' file exported





# **OpenVPN User**








## **OpenVPN Connect (user application)**

- Import the .ovpn file in OpenVPN Connect
- Insert the user-name "marco.boschini"
- Insert the user-password "user-secret"
- Insert the key-password "key-secret"
- Select "CONNECT"

< Impo	rted Profile
Profile Name	.net [client17
Server Hostname (I	locked)
Username marco.boschini	
Save password	d
Password user-secret	~
🗹 Save Private K	ey Password
Private Key Passwo key-secret	ord
PROFILES	CONNECT



# **OpenVPN Connect (user application)**



- The connection is working!
- Connection from Windows PC
   is almost the same
- Connection from MacOS is almost the same







Save the remote openvpn config file in a directory eg:

- /home/marcoboschini/
- Via SCP (SSH is required enabled on RouterOS)
- \$ scp admin@mikrotik-ip:/client1739653470.ovpn
  /home/marcoboschini/client.ovpn

marcoboschini@corsimikrotik-vm:~				
<pre>\$ scp admin@192.168.122.158:/client173</pre>	9653470.ovpn ./cl	ient.ovpn		
admin@192.168.122.158's password:	•	•		
client1739653470.ovpn	100% 4483	1.0MB/s	00:00	





To save credentials in the same directory:

- Create a new file "client-auth-user-pass.txt" and write marco.boschini user-secret
- Create a new file "client-askpass.txt" and write key-secret







Open the config file client.ovpn with a text-editor (Eg. Nano)

• find the row:

auth-user-pass

• edit with this

auth-user-pass client-auth-user-pass.txt
askpass client-askpass.txt







#### Start openvpn with this command:

#### sudo openvpn --config client.ovpn







## **OpenVPN Client RouterOS**



RouterOS can be OpenVPN Client. From Files, import .ovpn config file with certificate

File List 🗸 File Cloud Backup						
La New Remove						
File Name	Туре	Size	Creation Time ≡	Restore		
Client1739787808.ovpn	.ovpn file	4478 B	2025-02-17 10:25:29	Upload		
C skins	directory		2025-02-17 10:10:28	Download		
				O Configuration Backup		
18,0 MiB of 89,2 MiB used 79 % free			2			



## **OpenVPN Client RouterOS**







#### **OpenVPN Client RouterOS** (without certificate)

Terminal R1
<pre>/interface ovpn-client add name=ovpn-R1 \ connect-to=88.44.22.2 protocol=udp\ user=marco.boschini password=user-secret \ profile=default-encryption</pre>



## **NAT problem**



- If your router (or VPN Server) is not reachable by public IP
- Some solutions:
  - ZeroTier
  - BackToHome (based on WireGuard protocol)
  - RouterOS as a VPN Server concentrator





## ZeroTier



- Available only in ARM/ARM64 architecture
- Free up to 25 devices
- Can be hosted for free in your local environment without the limitation of 25 devices
- Easy to implement
- Not under your complete control
- iOS/Android/PC/MAC/Linux Apps available







- Available only in ARM/ARM64/TILE architecture
- Very Easy to implement (2 clicks!)
- Based on WireGuard
- MikroTik mantain the relay server for free
- Not under your complete control
- iOS/Android Apps available
- PC/MAC/Linux can use WireGuard client













ud BTH VPN BTH VPN	WireGuard	ОК
Back To Home VPN:	○ revoked and disabled ● enabled	Cancel
VPN Prefer Relay Code:	▼	Apply
VPN DNS Name:	hcr08bd26vm.vpn.mynetname.net	Force Update
VPN Port:	19159	Back To Home Users
VPN Status:	running	
VPN Relay IPv4 Status:	reachable via relay (region: EUR1 ip: 78.28.208.99 rtt: 68.268ms)	
VPN Relay IPv6 Status:	connecting (region: EUR1 ip: 2a02:16d8:2:1d:1::1 rtt: timeout)	
VPN Relay RTTs:	EUR1(ip4: 68.268ms, ip6: timeout)	
	USA1(ip4: 151.926ms, ip6: timeout)	
VPN Relay Codes:	EUR1	
	USA1	
VPN Relay Addressess:	78.28.208.99	
	192.73.220.99	
N Relay IPv6 Addressess:	2a02:16d8:2:1d:1::1	
	2602:ff99:5:6::3	
VPN Private Key:	EPH0N/McW32M7Hx74BlfBRG7PiL7VdQFcWeKVpvKAUk=	
VPN Public Key:	AbGtwEaicztvqfZQifGRgHNyXSOL4did88qtpXah8zI=	
VPN Peer Private Key:	oA0PE/I03hBJFXLDXDwJdQ7pnyswNszArM2+d4SkDEM=	
VPN Peer Public Key:	NR54AvPS2DIK9007SQt3IkbGfpU9grg4ApMjzIRAORc=	
VPN Interface:	back-to-home-vpn	











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Cloud	
Cloud BTH VPN BTH VPN WireGuard	
VPN WireGuard Client Config: [Interface] PrivateKey = oA0PE/I03hBJFXLI Address = 192.168.216.2/32,fc00 DNS = 8.8.8.8 [Peer]	DXDwJdQ7pnyswNszArM2+d4SkDEM= 0:0:0:216::2/128
PublicKey = ///////////////////////////////////	Annulla
PersistentKeepalive = 15	Taglia Copia
[Peer] PublicKev = AbGtwEaicztvgfZQi	Incolla <sup>Inge</sup> Elimina
AllowedIPs = 0.0.0.0/0,::/0 Endpoint = hcr08bd26vm vpn.mv	Seleziona tutto
PersistentKeepalive = 15	Ordine lettura da destra a sinistra Mostra caratteri di controllo Unicode
	Inserisci caratteri di controllo Unicode











🔞 WireGuard	_		×
Tunnel Log			
Interfaccia: MikroTik1 Stato: Inattivo Chiave pubblica: Bz3XVpsU0golLJ7eVwF/h8BVfDuhnu88Er Attiva	m0kffc	ovywc=	
🚍 Aggiungi tunnel 💌 🗙 🚞		Modific	a
Importa tunnel da file Ctrl+O     Aggiungi tunnel vuoto Ctrl+N			









8 WireGuard	- 0	$\times$
Tunnel Log		
t         E         I         L         L         N         N         C         C	Interfaccia: mtpc Stato: Attivo Chiave pubblica: NR54AvPS2DIK9007SQt3lkbGfpU9grg4ApMjzlRAOR c= Porta in ascolto: 61340 Indirizzi: 192.168.216.2/32, fc00:0:0:216::2/128 Server DNS: 8.8.88 Disattiva	
F s t	Peer Chiave pubblica: ////////////////////////////////////	
	Peer Chiave pubblica: AbGtwEaicztvqfZQifGRgHNyXSOL4did88qtpX ah8zI= IP consentiti: 0.0.0.0/0, ::/0 Endpoint: 78.28.208.99:19159	
🚍 Aggiungi tunnel 🔻 🗙 🚦	Modific	а







## **RouterOS** as a VPN Server



- Available with ALL architecture
- You can build a VPN Server with RouterOS
- With Physical device (any device with RouterOS)
- With Virtual device (CHR)
- The options available are the same for every devices!







A router forwards packets by looking at the destination IP address



A router searches for the interface where to forward out the packets inside his routing table, selecting the best path.

Term	inal R1	X
[admin@R1] /ip/route>	print	
<pre># DST-ADDRESS 0 As 0.0.0.0/0 DAc 88.44.22.0/30 DAc 192.168.20.0/24 DAc 192.168.30.0/24</pre>	GATEWAY 88.44.22.2 ether1 ether2 ether3	DISTANCE 1 0 0 0







• If a home automation device (192.168.30.30) send a request to TVCC device (eg. 192.168.20.20) the router receive an IP packets with this IP address fields inside the IP header:



 Router looks at the destination IP address and select where to forward the outgoing packet by selecting the interface that leads to the most accurate destination network





• Router select to forward packets out to ether2

	Terminal R1			
<pre>[admin@R1] /ip/route&gt; print</pre>				
	# 0 As DAc	DST-ADDRESS 0.0.0.0/0 88.44.22.0/30	GATEWAY 88.44.22.2 ether1	DISTANCE 1 0
	DAc	192.168.20.0/24	ether2	0
	DAc	192.168.30.0/24	ether3	0





 When TVCC device (192.168.30.30) respond back to the sender home automation device (192.168.20.20) the router receives IP packets with these IP address fields inside the IP header:



 Router looks at the destination IP address and select where to forward the outgoing packet by selecting the interface that leads to the most accurate destination network





• Router select to forward packets out to ether3

Term	ninal R1	X
[admin@R1] /ip/route>	print	
# DST-ADDRESS	GATEWAY 88 44 22 2	DISTANCE
DAc 88.44.22.0/30 DAc 192.168.20.0/24	ether1 ether2	0
DAc 192.168.30.0/24	ether3	0

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• These Routes are **Connected**, because the router has an interface with an address that belongs to that network. There is no distance.

	Terminal R1		X
	[admin@R1] /ip/route> print		
	# DST-ADDRESS 0 As 0.0.0.0/0	GATEWAY 88.44.22.2	DISTANCE 1
ſ	DAc 88.44.22.0/30	ether1	0
	DAc 192.168.20.0/24	ether2	0
L	DAc 192.168.30.0/24	ether3	0





• This route **is not connected**, because it require to send the packets to another router (next-hop) to reach the destination. **There's a distance more than 0**.

	Terminal R1		X
	[admin@R1] /ip/route>		
	# DST-ADDRESS	GATEWAY	DISTANCE
	0 As 0.0.0.0/0	88.44.22.2	1
٦	DAc 88.44.22.0/30	ether1	0
	DAc 192.168.20.0/24	ether2	0
	DAc 192.168.30.0/24	ether3	0



I can set a more specific route •

Terminal R1		
[admin@R1] /ip/route> print		
<pre># DST-ADDRESS 0 As 0.0.0/0</pre>	GATEWAY 88.44.22.2	DISTANCE 1
DAc 88.44.22.0/30	ether1	0
DAC 192.168.20.0/24	ether2	0
1 As 192.168.40.0/24	88.44.22.2	1





IP

Or only specific route, without default • route.

Terminal R1		
[admin@R1] /ip/route>	print	
<pre># DST-ADDRESS DAc 88.44.22.0/30 DAc 192.168.20.0/24 DAc 192.168.30.0/24</pre>	GATEWAY ether1 ether2 ether3	DISTANCE 0 0 0
1 As 192.168.40.0/24	88.44.22.2	1





IP



## MikroTik as a VPN Client (main router)



- The router is the main router of the network
- Every device is reachable because the router is the default gateway
- To install the VPN Client it is required to change/add the main router of the network
- The installation can be difficult





#### **RouterOS as VPN concentrator**

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#### **OpenVPN Client RouterOS** (without certificate)

Terminal R2	X
<pre>/interface ovpn-client add name=ovpn-R1 \ connect-to=88.44.22.2 protocol=udp\ user=R2 password=my,Strong,Secret,88 \ route-nopull=yes \ profile=default-encryption</pre>	



#### **RouterOS as VPN concentrator**

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## **Static route**



Terminal R1					
[marco@R1] /ip route <b>add dst-address</b> =192.168.10.0/24 <b>gateway</b> =10.99.99.3					
[ma	[marco@R1] /ip route print				
#	DST-ADDRESS	GATEWAY	DISTANCE		
0	As 0.0.0.0/0	ether1	1		
	DAc 88.44.22.0/24	ether1	0		
1	As 192.168.10.0/2	4 10.99.99.3	1		
	DAc 10.99.99.2/32	<ovpn-marco.boschini></ovpn-marco.boschini>	> 0		
	DAc 10.99.99.3/32	<ovpn-r2></ovpn-r2>	0		




## **Dynamic Route from /ppp secret**





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## It works!



	Termina	nal PC1	٢
[admin@PC1] > ping 192.168.1	10.10	)	
SEQ HOST	SIZE	E TTL TIME STATUS	
0 192.168.10.10	56	62 9ms630us	
1 192.168.10.10	56	62 10ms261us	
2 192.168.10.10	56	62 9ms172us	
<b>sent=3 received=3</b> packet-loss=0% min-rtt=9ms172us avg-rtt=9ms687us max-rtt=10ms261us			







## MikroTik as a VPN Client (not main router)

- In certain situations, adding a device as a main router is not possible
- In this case, the router is a host in the network (like a printer or a smartphone)
- The router is NOT the default gateway of the device
- The VPN Client can be installed easily with DHCP client configuration





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## MikroTik as a VPN Client (not main router)

- DVC1 try to response to the original sender, and select the best route to reach them.
- Because 10.99.99.0/24 is a subnet that DVC1 doesn't know, it send packets to his gateway.
- Can I change the source IP address of the packets arrived from the VPN with the IP address of the router itself?









### **IP Firewall NAT**





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# How about if two or more customers have the same network subnet?



- In my implementation I found a lot of customers with the same subnet network: 192.168.1.0/24
- If I would reach different network with the same subnet address, what can I do?





# How about if two or more customers have the same network subnet?



- The router forward packets by destination address.
- You can use a route that points to a network that is not really present in the destination, only to forward packet at the destionation
- The destination router can modify the destionation with a NAT rule like dst-nat or netmap with the real destionation subnet.





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### **IP Firewall NAT**







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### It works!



	Termina	I PC1	X
[admin@PC1] > ping 10.200.1	.10		
SEQ HOST	SIZE	TTL TIME STATUS	
0 10.200.1.10	56	62 9ms630us	
1 10.200.1.10	56	62 10ms261us	
2 10.200.1.10	56	62 9ms172us	
<b>sent=3 received=3</b> packet-loss=0% min-rtt=9ms172us avg-rtt=9ms687us max-rtt=10ms261us			





# How about security?



#### • Authentication:

- VPN tunnel require authentication
  - user/password
  - certificate
  - 2FA





## How about security?



#### • Authorization:

- RouterOS implement a statefull firewall
- RouterOS implement a Address List function
- You can assign specific address at every VPN Client connected (ppp/secret)
- You can build lists with src-address and dst-address allowed so that the client can reach the destionation, and drop everything else







### How about security?



#### Encryption

- VPN tunnel can encrypt the communication





# **Best VPN Client to connect customers**



- OpenVPN client is available in every platform (newer and older)
- Is considered secure
- Strong encryption (SHA512/AES256)
- Use of certificate is possible
- Very easy to configure in the server side
- You can send configuration file to the customers via email/Whatsapp/Telegram





# **Best VPN Client to connect customers**



- Is not necessary to set routes in the configuration file
- You can PUSH ROUTE to the client from the server
- VPN connection could not be the default gateway
- Client reach internet via his connection
- Client reach only the device via VPN





#### WireGuard



- WireGuard is a great choice as VPN, secure and FAST
- BTW is available only from RouterOS v7
- It is not possibile to PUSH ROUTES to the clients, you must manually edit the config on the client devices
- You can easly implement the same concept with WireGuard





### Conclusion



- In this presentation I have touched on a lot of points
- Understanding routing process and packet flow is essential



https://help.mikrotik.com/docs/spaces/ROS/pages/328227/Packet+Flow+in+RouterOS





## Conclusion



To deeply understand this presentation, I suggest trying it out on some labs and analyzing packets with WireShark









### Conclusion

- Last year, at MTPC 2024, I presented a solution on how to create these virtual labs with GNS3
- If you don't know how to create labs or where to start, watch this presentation: https://www.youtube.com/watch?v=IdFTgPLXqKs







#### "Dreams, without goals, are just dreams.

And ultimately they fuel disappointment.

On the road, to achieving your dreams, you **MUST** apply discipline.

But more importantly Consistency

Because without commitment, you never start but **without consistency**, you never finish."





#### Thank you for your time.

Thanks to Ron, Lorenzo, Jaromir and all the staff for organizing this fantastic meeting.



#### **Linkedin** Marco Boschini



