Installation and configuration guide

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- Setup guide: Mikrotik preparation and configuration
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- Product Configuration in WHMCS
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WHMCS setup(install/update)

Mikrotik VPN module WHMCS

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Module is coded ionCube v13

Supported php version:

- php 7.4 WHMCS 8.11.0 -
- php 8.1 WHMCS 8.11.0 +
- php 8.2 WHMCS 8.11.0 +

To install and update a module, you must perform one and the same action.

1. Download the latest version of the module.

PHP 8.2

wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/php82/PUQ_WHMCS-Mikrotik-VPN-latest.zip

PHP 8.1

wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/php81/PUQ_WHMCS-Mikrotik-VPN-latest.zip

PHP 7.4

wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/php74/PUQ_WHMCS-Mikrotik-VPN-latest.zip All versions are available via link:

http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/

2. Unzip the archive with the module.

unzip PUQ_WHMCS-Mikrotik-VPN-latest.zip

3. Copy and Replace "puqMikrotikVPN" to "WHMCS_WEB_DIR/modules/servers/"

Setup guide: Mikrotik preparation and configuration

Mikrotik VPN module WHMCS

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Note: Enter the following commands one by one and wait for the command to complete.

I. Check RouterOS version

Make sure that the version of RouterOS is 7+

system/package/print

II. Enabling HTTPS Create your own root CA on your router

/certificate

add name=LocalCA common-name=LocalCA key-usage=key-cert-sign,crl-sign

III. Sign the newly created CA certificate

/certificate sign LocalCA

IV. Create a new certificate for Webfig (non-root certificate)

Note: as common-name=XXX.XXX.XXX.XXX You enter public IP adddress of the router.

/certificate

add name=Webfig common-name=XXX. XXX. XXX. XXX

V. Sign the newly created certificate for Webfig

/certificate
sign Webfig ca=LocalCA

VI. Enable SSL (*www-ssl*) and specify to use the newly created certificate for Webfig

```
/ip service
set www-ssl certificate=Webfig disabled=no
```

VII. Enable api-ssl and specify to use the newly created certificate for Webfig

```
/ip service
set api-ssl certificate=Webfig disabled=no
```

VIII. Enable VPN server

To enable the VPN server

🚀 Quick Set	
CAPSMAN	
Interfaces	Interface PPPoE Servers Secrets Profiles Active Connections L2TP Ethernet L2TP Secrets
Wireless	🕂 🖛 🖉 🖄 🖅 PPP Scanner PPTP Server SSTP Server L2TP Server OVPN Server PPPoE Scan Find
😝 WireGuard	Name A Type Actual MTU L2 MTU Tx Rx Tx Packe
👯 Bridge	
⇒ ₌ PPP	
° 🖁 Mesh	
🏥 IP 🔰 🗎	
🕐 MPLS 🛛 🗅	
👺 IPv6 🛛 🗅	
📝 Routing 💦 🗅	
🔯 System 🛛 🗅	
🙅 Queues	
Files	
📃 Log	
Le RADIUS	•
🔀 Tools 🛛 🗅	0 items out of 5
Mew Terminal	
Dot1X	PPTP Server
Make Supout.rif	General L2TPv3 OK
🕓 New WinBox	Caped OK OK
🔀 Exit	Max MTU: 1450 Cancel
	Max MRU: 1450 Max MTU: 1450 Apply
💻 Windows 🛛 🗅	MRRU: Max MRU: 1450
	Keepalive Timeout 30
	Default Profile default-encryption
	Authentication Vinschan2 Vinschan1 Default Profile default-encryption F
	Max Sessions:
	Authentication V mschap2 V mschap1
	Use IPsec: required
	IPsec Secret: QWEqwe123
	Caller ID Type: Ip address
	One Session Per Host
	✓ Allow Fast Path

Setup guide: WHMCS preparation and configuration

Mikrotik VPN module WHMCS

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- php 8.2 WHMCS 8.11.0 +

To install and update a module, you must perform one and the same action.

1. Download the latest version of the module.

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wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/php82/PUQ_WHMCS-Mikrotik-VPN-latest.zip

PHP 8.1

wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/php81/PUQ_WHMCS-Mikrotik-VPN-latest.zip

PHP 7.4

wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/php74/PUQ_WHMCS-Mikrotik-VPN-latest.zip

All versions are available via link: http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-VPN/

2. Unzip the archive with the module.

unzip PUQ_WHMCS-Mikrotik-VPN-latest.zip

3. Copy and Replace "puqMikrotikVPN" to "WHMCS_WEB_DIR/modules/servers/"

4. Create new server Mikrotik in WHMCS (System Settings->Products/Services->Servers)

System Settings->Servers->Add New Server

- Enter the correct Name and Hostname
- In the "Assigned IP Addresses field", enter a list of IP addresses that will be issued to users.

Name	vpn
Hostname	vpn-pl
IP Address	
Assigned IP Addresses (One per line)	192.168.222.14 192.168.222.15 192.168.222.16 192.168.222.17 192.168.222.18 192.168.222.19 192.168.222.20 192.168.222.21
Monthly Cost	0.00
Datacenter/NOC	
Maximum No. of Accounts	200
Server Status Address	To display this server on the server status page, enter the full path to the server status folder (required to be uploaded to each server you want to monitor) - eg. https://www.example.com/status/
Enable/Disable	Tick to disable this server

- In the **Server Details** section, select the "**PUQ Mikrotik VPN**" module and enter the correct **username** and **password** for the **Mikrotik** router.
- To check, click the "**Test connection**" button

Server Details

Module	PUQ Mikrotik VPN ✓ Test Connection ✓ Connection successful. Some values have been auto-filled. 		
Username	admin		
Password			
Access Hash			
Secure	Tick to use SSL Mode for Connections		
Port	443 Override with Custom Port		
	Save Changes Cancel Changes		

5. Create a new Products/Services

System Settings->Products/Services->Create a New Product

In the Module settings section, select the "PUQ mikrotik VPN" module

Edit Product			
Details Pricing Module Settings Custom Fig	elds Configurable Options Upgrades Free Domain Other Links		
Module Name PUQ Miki	rotik VPN 🗸	Server Group	None ~
License key	AMRTFD	Comment PREFIX	WHMCS
Profile	default PPP Secret Profile	Service	any VPPP Secret Servive
Bandwidth Download	10 M	Bandwidth Upload	10 M
Traffic One Time/Monthly in GB	10 0 - unlimited	Traffic Quarterly in GB	40 0 - unlimited
Traffic Semi-Annually in GB	70 0 - unlimited	Traffic Annually in GB	200 D - unlimited
Traffic Blennially In GB	1024 0 - unlimited	Traffic Triennially in GB	0 0 - unlimited
Save traffic history (days)	364 0 - all history	User notification traffic limit email template	puqMikrotikVPN notification traffic limit
Notification traffic remainder less than X GB	10 GB 0 - all history	Suspend exceeding traffic limit email template	puqMikrotikVPN Suspension Notification traffic limit
Link to instruction	https://doc.puq.info/books/vpn-l2tp/page/	Support PPtP	Information in the client panel about PPtP protocol support
Support L2TP	Information In the client panel about L2TP protocol support	L2TP IPSec PSK key	Will be shown in the client panel

• License key: A pre-purchased license key for the "PUQ Mikrotik VPN" module. For the module to work correctly, the key must be active

- **Comment PREFIX:** The prefix that will be added to the VPN user's comment on the Mikrotik router
- **Profile:** PPP secret profile on mikrotik router
- Service: A service that will be available to a VPN user on a Mikrotik router
- Bandwidth Download: Download Bandwidth Limit in M/s
- Bandwidth Upload: Upload Bandwidth Limit M/s
- Traffic One Time/Monthly in GB/Traffic Quarterly in GB/Traffic Semi-Annually in GB/Traffic Annually in GB/Traffic Biennially in GB/Traffic Triennially in GB : Packet traffic that will be added to the balance every billing period, respectively
- Save traffic history (days): The number of days it takes to save user traffic usage statistics
- User notification traffic limit email template: The template of the letter that will be sent to the client if the remaining traffic is less than XXX
- **Notification traffic remainder less than X GB:** The amount of traffic on the client's balance below which a notification will be sent.
- **Suspend exceeding traffic limit email template:** The template of the letter that will be sent to the client if his traffic balance is 0 or less 0
- Link to instruction: Link to the instruction, if filled out, it will be reflected in the client area
- Support PPtP/Support L2TP: If checked, it will be reflected in the client zone
- L2TP IPSec PSK key: it will be reflected in the client zone

Add server (router Mikrotik) in WHMCS

Mikrotik VPN module WHMCS

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Add a new server to the system WHMCS.

System Settings->Servers->Add New Server

• Enter the correct Name and Hostname

Name is just for Your convenience and You can put there anything You like ie: *Mygreat mikrotik routr*

You can choose whatever hostname You want. Valid entries look similar to: vpn.mydomain.com, ourgreatvpn.mydomain.net. You can also dedicate whole domain ie: myVPNservices.com if You like. The important thing is to resolve the choosen IP address of the Mikrotik router in DNS server for Your domain.

• In the "Assigned IP Addresses field", enter a list of IP addresses that will be issued to users.

Name	vpn
Hostname	vpn-pl
IP Address	
Assigned IP Addresses (One per line)	192.168.222.14 192.168.222.15 192.168.222.16 192.168.222.17 192.168.222.18 192.168.222.19 192.168.222.20 192.168.222.21
Monthly Cost	0.00
Datacenter/NOC	
Maximum No. of Accounts	200
Server Status Address	To display this server on the server status page, enter the full path to the server status folder (required to be uploaded to each server you want to monitor) - eg. https://www.example.com/status/
Enable/Disable	Tick to disable this server

- In the **Server Details** section, select the "**PUQ Mikrotik VPN**" module and enter the correct **username** and **password** for the **Mikrotik** router.
- To check, click the "**Test connection**" button

Server Details

Module	PUQ Mikrotik VPN 🗸 Test Connection
module	 Connection successful. Some values have been auto-filled.
Username	admin
Password	••••••
Access Hash	
Secure	Tick to use SSL Mode for Connections
Port	443 Override with Custom Port

Save Changes Cancel Changes

Email Template (puqMikrotikVPN notification traffic limit)

Mikrotik VPN module WHMCS

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Create an email template for customer notifications.

System Settings->Email Templates->Create New Email Template

- Email Type: Product/service
- Unique Name: puqMikrotikVPN notification traffic limit

Create New Email Template

Email Type

Traffic less than {\$notification traffic remainder} GB - {\$username}

Bod Yique Name

Dear {\$client_name},

This letter informs you that the traffic limit of the service is coming to an end.

Product/Service: {\$service_product_name}
Due Date: {\$service next due date}

Username: {\$username}

Left traffic: {\$traffic_balance_gb} GB

After renewing the service, {\$traffic_billingcycle_gb} GB will be automatically added.

{\$signature}

Email Template (puqMikrotikVPN Suspension Notification traffic limit)

Mikrotik VPN module WHMCS

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Create an email template for customer notifications.

System Settings->Email Templates->Create New Email Template

- Email Type: Product/service
- Unique Name: puqMikrotikVPN Suspension Notification traffic limit

Create New Email Template

Subject:

Email Type

Suspension Information - {\$username}

Book gue Name

Dear {\$client_name},

This letter informs you that the VPN account has been suspended due to traffic exhaustion. The traffic limit will be restored from the next service cycle. It is also possible to switch to a package with a large amount of traffic.

```
Product/Service: {$service_product_name}
Due Date: {$service_next_due_date}
```

Username: {\$username}
Left traffic: {\$traffic_balance_gb} GB
After renewing the service, {\$traffic_billingcycle_gb} GB will be automatically added.

{\$signature}

Product Configuration in WHMCS

Mikrotik VPN module WHMCS

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Add new product to WHMCS

System Settings->Products/Services->Create a New Product

In the Module settings section, select the "PUQ mikrotik VPN" module

Details Pricing Module Settings Custom F	Fields Configurable Options Upgrades Free Domain Cross-sells O	ther Links	
Module Name	e PUQ Mikrotik VPN 🗸		
Server Group	None V		
License ke		Profile	default Y PPP Secret Profile
	success: 2026-12-29T16:51:23+01:00		
User notification traffic limit email template	e puqMikrotikVPN notification tra 🖌 🖉	Suspend exceeding traffic limit email template	puqMikrotikVPN Suspension N 👻 🕄
			Link to instruction
			https://doc.puq.info/
	Service		A link to the instruction will be reflected in the client area
	any Y The time of service the VDN user belongs to		Support PPtP
	The type of service the very user belongs to		YES 🗸
	Comment PREFIX		Information in the client panel about PPtP protocol support
	WHMCS Profix will add to commont on Mikrotik VBN usor		PPtP Custom html
	Frenz will add to commencer on wikrotik vew dser		PPtP Custom html
	Bandwidth Download		
	10 Megabit/s		
	Descholdt Usland		L
			Support L2TP
	Megabit/s		YES v
	Traffic One Time/Menthly in CR		Information in the client panel about L2TP protocol support
	1 and one filler wonding in GD		L2TP IPSec PSK key
	0 - unlimited		QWEqwe123
			Will be shown in the client panel

	u - uniimitea		Will be shown in the client panel
	Traffic Quarterly in GB		L2TP Custom html
	2		<
	0 - unlimited		
VPN account config	Traffic Semi-Annually in GB	Client Area	
	3		
	0 - unlimited		Support oVPN
	Traffic Annually in GB		YES
	4		Information in the client panel about oVPN protocol support
	0 - unlimited		oVPN
	Traffic Biennially in GB		https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikroti
	5		Will be shown in the client panel as Download button
	0 - unlimited		oVPN Custom html
	Traffic Triennially in GB		oVPN Custom html
	6		
	0 - unlimited		
	Save traffic history (days)		1
	7		Support SStP
	0 - all history		YES
	Notification traffic remainder less than X GB		Information in the client panel about SStP protocol support
	8		SStP Custom html
	Statistics collection frequency		SStP Custom html
	After Cron Job 🗸		<pre><div class="card shadow-sm my-3" style="max-width: 600px; margin:
auto;"></div></pre>
			<div class="card-header bg-primary text-white text-center"></div>
			<n4><i class="ta ta-cogs"></i> Custom HTML Example</n4>

- License key: A pre-purchased license key for the "PUQ Mikrotik VPN" module. For the module to work correctly, the key must be active
- **Comment PREFIX:** The prefix that will be added to the VPN user's comment on the Mikrotik router
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- Bandwidth Download: Download Bandwidth Limit in M/s
- Bandwidth Upload: Upload Bandwidth Limit M/s
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- Save traffic history (days): The number of days it takes to save user traffic usage statistics
- User notification traffic limit email template: The template of the letter that will be sent to the client if the remaining traffic is less than XXX
- **Notification traffic remainder less than X GB:** The amount of traffic on the client's balance below which a notification will be sent.
- **Suspend exceeding traffic limit email template:** The template of the letter that will be sent to the client if his traffic balance is 0 or less 0
- Link to instruction: Link to the instruction, if filled out, it will be reflected in the client area
- Support PPtP/Support L2TP: If checked, it will be reflected in the client zone
- L2TP IPSec PSK key: it will be reflected in the client zone
- **Statistics collection frequency :** The frequency with which traffic usage statistics will be collected. It also checks the positive balance and if the traffic balance is exhausted, it disables the vpn account on the Mikrotik server.

Product Addons Configuration in WHMCS

Mikrotik VPN module WHMCS

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In order to provide customers with the opportunity to purchase additional traffic, use Product Addons

Create new **Product Addons** in the WHMCS system.

System Settings->Product Addons->Add New Addon
Product Addons - Edit Addon
Details Pricing Module Settings Custom Fields Applicable Products Associated Download
Product Type Other Module Name PUQ Mikrotik Server Group None
Traffic in GB 400 GB O Automatically setup the addon as soon as an order is placed
Automatically setup the addon as soon as the first payment is received
O Automatically setup the addon when you manually accept a pending order
O Do not automatically setup this addon
Save Changes Cancel Changes

- Product Type: Other
- Module Name: PUQ Mikkrotik VPN
- Traffic in GB : The amount of traffic that will be added after payment by the client