

# Installation and configuration guide

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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/](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 address 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
- Wireless
- WireGuard
- Bridge
- PPP
- Mesh
- IP
- MPLS
- IPv6
- Routing
- System
- Queues
- Files
- Log
- RADIUS
- Tools
- New Terminal
- Dot1X
- Make Supout.rif
- New WinBox
- Exit
- Windows

PPP

Interface PPPoE Servers Secrets Profiles Active Connections L2TP Ethernet L2TP Secrets

PPP Scanner PPTP Server SSTP Server L2TP Server OVPN Server PPPoE Scan Find

Name	Type	Actual MTU	L2 MTU	Tx	Rx	Tx Packe
------	------	------------	--------	----	----	----------

0 items out of 5

PPTP Server

☒ Enabled

Max MTU: 1450

Max MRU: 1450

MRRU:

Keepalive Timeout: 30

Default Profile: default-encryption

Authentication ☒ mschap2 ☒ mschap1

☐ chap ☐ pap

OK Cancel Apply

L2TP Server

General L2TPv3

☒ Enabled

Max MTU: 1450

Max MRU: 1450

MRRU:

Keepalive Timeout: 30

Default Profile: default-encryption

Max Sessions:

Authentication ☒ mschap2 ☒ mschap1

☒ chap ☒ pap

Use IPsec: required

IPsec Secret: QWEqwe123

Caller ID Type: ip address

☐ One Session Per Host

☒ Allow Fast Path

OK Cancel Apply

# Setup guide: WHMCS preparation and configuration

## Mikrotik VPN module **WHMCS**

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PHP 8.1

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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/](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 [REDACTED] pl
Hostname	vpn [REDACTED] pl
IP Address	
Assigned IP Addresses (One per line)	<div> 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 </div>
Monthly Cost	0.00
Datacenter/NOC	
Maximum No. of Accounts	200
Server Status Address	<div></div> <p>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. <a href="https://www.example.com/status/">https://www.example.com/status/</a></p>
Enable/Disable	<input type="checkbox"/> 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 <input type="button" value="Test Connection"/>
	✓ Connection successful. Some values have been auto-filled.
Username	admin
Password	.....
Access Hash	
Secure	<input checked="" type="checkbox"/> Tick to use SSL Mode for Connections
Port	443 <input type="checkbox"/> Override with Custom Port

## 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 Fields	Configurable Options	Upgrades	Free Domain	Other	Links
Module Name		PUQ Mikrotik VPN		Server Group		None		
License key		AMRTFD [REDACTED] GFIVVO success: 2022-09-09T14:28:38+02:00		Comment PREFIX		WHMCS		
Profile		default PPP Secret Profile		Service		any PPP Secret Service		
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 0 - unlimited		
Traffic Biennially 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		<a href="https://doc.puq.info/books/vpn-l2tp/page/">https://doc.puq.info/books/vpn-l2tp/page/</a> A link to the instruction will be reflected in the client area.		Support PPTP		<input checked="" type="checkbox"/> Information in the client panel about PPTP protocol support		
Support L2TP		<input checked="" type="checkbox"/> Information in the client panel about L2TP protocol support		L2TP IPsec PSK key		[REDACTED] 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 [REDACTED].pl
Hostname	vpn [REDACTED].pl
IP Address	
Assigned IP Addresses (One per line)	<div> 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 </div>
Monthly Cost	0.00
Datacenter/NOC	
Maximum No. of Accounts	200
Server Status Address	<div></div> <p>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. <a href="https://www.example.com/status/">https://www.example.com/status/</a></p>
Enable/Disable	<input type="checkbox"/> 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	<div>PUQ Mikrotik VPN</div> <div>Test Connection</div> <div>✓ Connection successful. Some values have been auto-filled.</div>
Username	<div>admin</div>
Password	<div>.....</div>
Access Hash	<div></div>
Secure	<div><input checked="" type="checkbox"/> Tick to use SSL Mode for Connections</div>
Port	<div><div>443</div><div><input type="checkbox"/> Override with Custom Port</div></div>

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

Subject:

Email Type

Traffic less than {\$notification\_traffic\_remainder} GB - {\$username}

Body:

Unique 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}

**Body:**

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

License key	ZRIWD6- [REDACTED] JEJT1Q success: 2023-12-29T16:51:23+01:00	Comment PREFIX	WHMCS
Profile	default ▼ PPP Secret Profile ↻	Service	any ▼ PPP Secret Service
Bandwidth Download	10 M	Bandwidth Upload	10 M
Traffic One Time/Monthly in GB	1 0 - unlimited	Traffic Quarterly in GB	1 0 - unlimited
Traffic Semi-Annually in GB	1 0 - unlimited	Traffic Annually in GB	1 0 - unlimited
Traffic Biennially in GB	1 0 - unlimited	Traffic Triennially in GB	1 0 - unlimited
Save traffic history (days)	364 0 - all history	User notification traffic limit email template	puqMikrotikVPN notificatio ▼ ↻
Notification traffic remainder less than X GB	1	Suspend exceeding traffic limit email template	puqMikrotikVPN Suspensio ▼ ↻
Link to Instruction	https://doc.puq.info/books/vpn-l2tp/page/jak-skonfiguruv A link to the instruction will be reflected in the client area.	Support PPTP	<input checked="" type="checkbox"/> Information in the client panel about PPTP protocol support
Support L2TP	<input checked="" type="checkbox"/> Information in the client panel about L2TP protocol support	L2TP IPsec PSK key	[REDACTED] Will be shown in the client panel
Statistics collection frequency	After Cron job ▼		

- **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
- **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

☐ Automatically setup the addon as soon as an order is placed

☒ Automatically setup the addon as soon as the first payment is received

☐ Automatically setup the addon when you manually accept a pending order

☐ Do not automatically setup this addon

Save Changes

Cancel Changes

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