

Installation and configuration guide

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WHMCS

setup(install/update)

Mikrotik WireGuard 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-WireGuard-VPN/php82/PUQ_WHMCS-Mikrotik-WireGuard-VPN-latest.zip
```

PHP 8.1

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

PHP 7.4

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Mikrotik-WireGuard-
```

```
VPN/php74/PUQ_WHMCS-Mikrotik-WireGuard-VPN-latest.zip
```

All versions are available via link:

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

2. Unzip the archive with the module.

```
unzip PUQ_WHMCS-Mikrotik-WireGuard-VPN-latest.zip
```

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

Setup guide: Mikrotik preparation and configuration

Mikrotik WireGuard 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

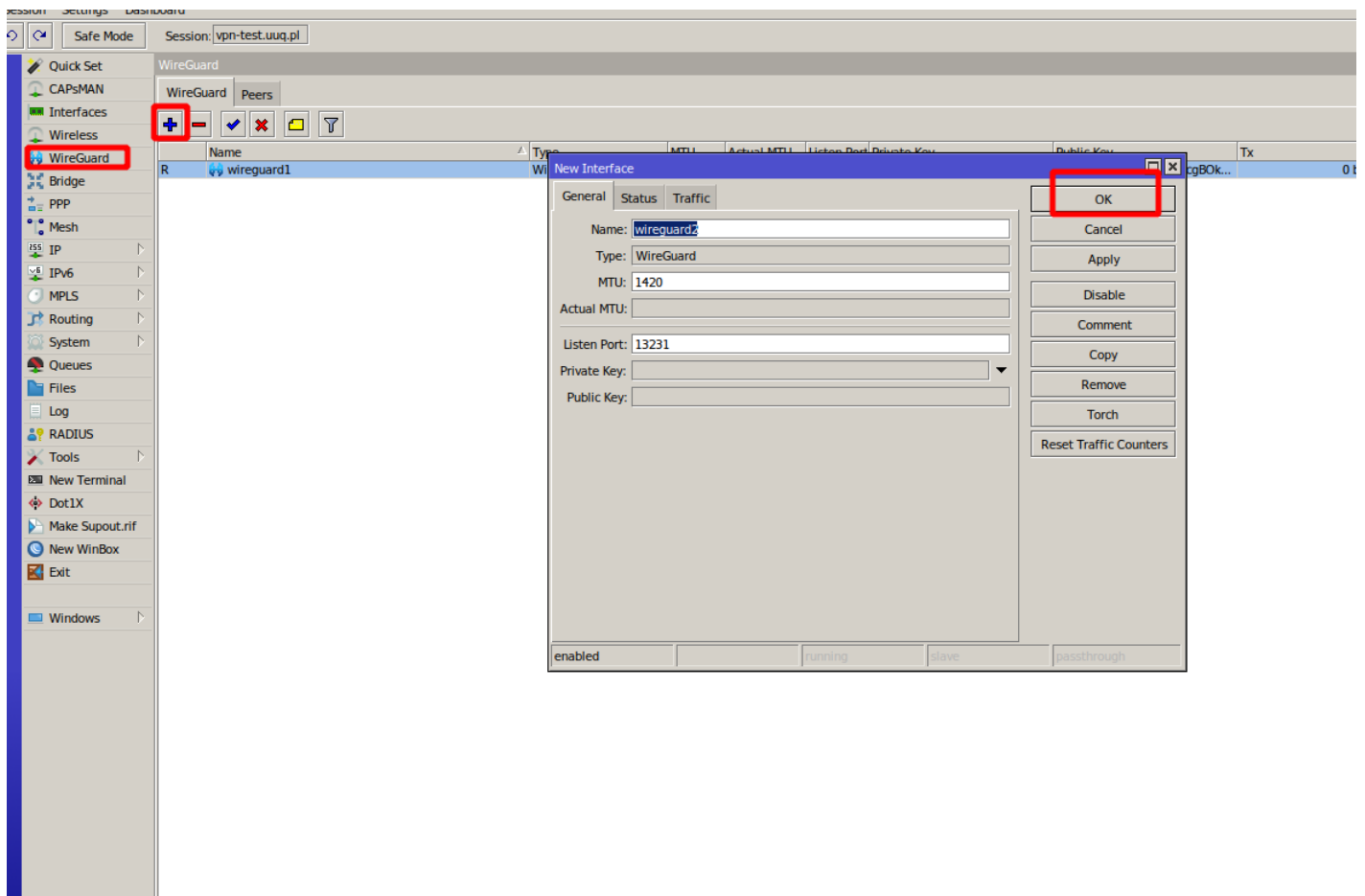
```
/ip service  
set www-ssl certificate=Webfig disabled=no
```

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

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

VIII. Creating a WireGuard Server

To enable the WireGuard VPN server



Add server (router Mikrotik) in WHMCS

Mikrotik WireGuard 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. https://www.example.com/status/</p>
Enable/Disable	<input type="checkbox"/> Tick to disable this server

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

Module	PUQ Mikrotik WireGuard VPN	<div>Test Connection</div>	✓ Connection successful. Some values have been auto-filled.
Username	admin-dev-MWG		
Password	*****		
Access Hash	<div></div>		
Secure	<input checked="" type="checkbox"/> Check to use SSL Mode for Connections		
Port	<div>443</div> <input type="checkbox"/> Override with Custom Port		

Save Changes

Cancel Changes

Product Configuration in WHMCS

Mikrotik WireGuard 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 WireGuard VPN**" module

The screenshot shows the 'Module Settings' tab for the 'PUQ Mikrotik WireGuard VPN' module. The form includes the following sections:

- Module Name:** PUQ Mikrotik WireGuard VPN (selected from a dropdown)
- Server Group:** None (selected from a dropdown)
- License key:** X3A1HN-CXCZVZ-JA7EOD-2NTT04-FOYCDK
success: 2025-12-07T18:23:50+01:00
- Peers configuration:**
 - Bandwidth Download:** 15 M
 - Bandwidth Upload:** 15 M
 - DNS Servers:** 8.8.8.8,1.1.1.1
 - AllowedIPs:** 0.0.0.0/0
 - Persistent Keepalive:** 60
- WireGuard interface:** wireguard1 (selected from a dropdown) WireGuard interface on Mikrotik
- Additional settings:**
 - Comment PREFIX:** whmcs-dev
 - Link to instruction:** <https://doc.puq.info/books/puqvpncp>
A link to the instruction will be reflected in the client area.
 - Link to VPN clients:** <https://doc.puq.info/books/puqvpncp/page>
A link to the VPN clients.

At the bottom, there are two toggle switches for 'Metric Billing': 'Bandwidth Usage In (GB)' and 'Bandwidth Usage Out (GB)', both currently set to 'ON'.

- **License key:** A pre-purchased license key for the "**PUQ Mikrotik WireGuard VPN**" module. For the module to work correctly, the key must be active
- **WireGuard interface:** A pre-created WireGuard server on a Mikrotik router, which will serve as peers for clients of this service.
- **Comment PREFIX:** The prefix that will be added to the VPN user's comment on the Mikrotik router
- **Bandwidth Download:** Download Bandwidth Limit in M/s
- **Bandwidth Upload:** Upload Bandwidth Limit M/s
- **DNS Servers:** Option in WireGuard client configuration
- **AllowedIPs:** Option in WireGuard client configuration

- **Persistent Keepalive:** Option in WireGuard client configuration
- **Link to instruction:** Link to the instruction, if filled out, it will be reflected in the client area
- **Link to VPN clients:** The URL that will be shown to the client in the client panel in order to download the VPN client

Metric Billing

It is also possible to set up tariffs for incoming and outgoing traffic.
 Standard methods for setting up metrics

Bandwidth Usage In

Configure Pricing

Bandwidth Usage In (GB)

Metric Type: Monthly

Metric Unit: Gigabytes

Pricing

Scheme:

☐ Per Unit
 ☒ Total Volume
 ☐ Graduated

Quantity Included

12

Starting Quantity	Price Per GB			
	PLN	EUR	UAH	USD
0	1	2	3	4

Add Range

Close

Save

Bandwidth Usage Out

Configure Pricing



Bandwidth Usage Out (GB)

Metric Type: Monthly

Metric Unit: Gigabytes


Pricing

Quantity Included

Scheme:

11

☐ Per Unit  ☒ Total Volume  ☐ Graduated 

Starting Quantity 	Price Per GB			
	PLN	EUR	UAH	USD
0	5	6	7	8

Add Range

Close

Save