

# 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/](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

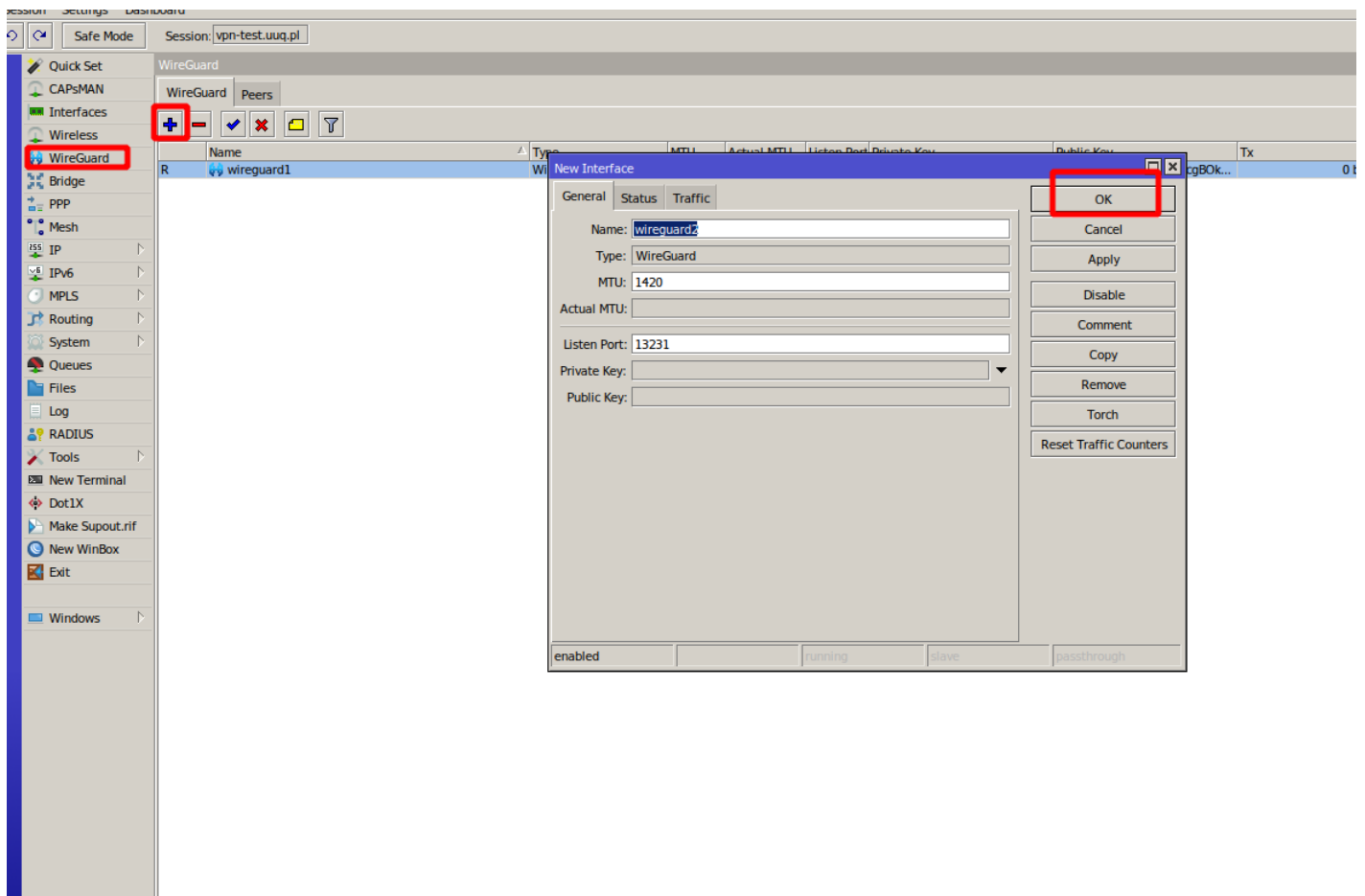
```
/ip service  
set www-ssl certificate=Webfig disabled=no
```

#### 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

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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 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): ☒ ON
- Bandwidth Usage Out (GB): ☒ 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