

Installation and configuration guide

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Setup (install/update)

Mikrotik WireGuard VPN module

WISECP

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

1. Download the latest version of the module.

```
wget https://download.puqcloud.com/WISECP/Product/PUQ_WISECP-Mikrotik-WireGuard-VPN/php81/PUQ_WISECP-Mikrotik-WireGuard-VPN-latest.zip
```

All versions are available: https://download.puqcloud.com/WISECP/Product/PUQ_WISECP-Mikrotik-WireGuard-VPN/

2. Unzip the archive with the module.

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

3. Copy and Replace "puqMikrotikWireGuardVPN" from "PUQ_WISECP-Mikrotik-WireGuard-VPN" to "WISECP_WEB_DIR/coremio/modules/Product/"

License Activation

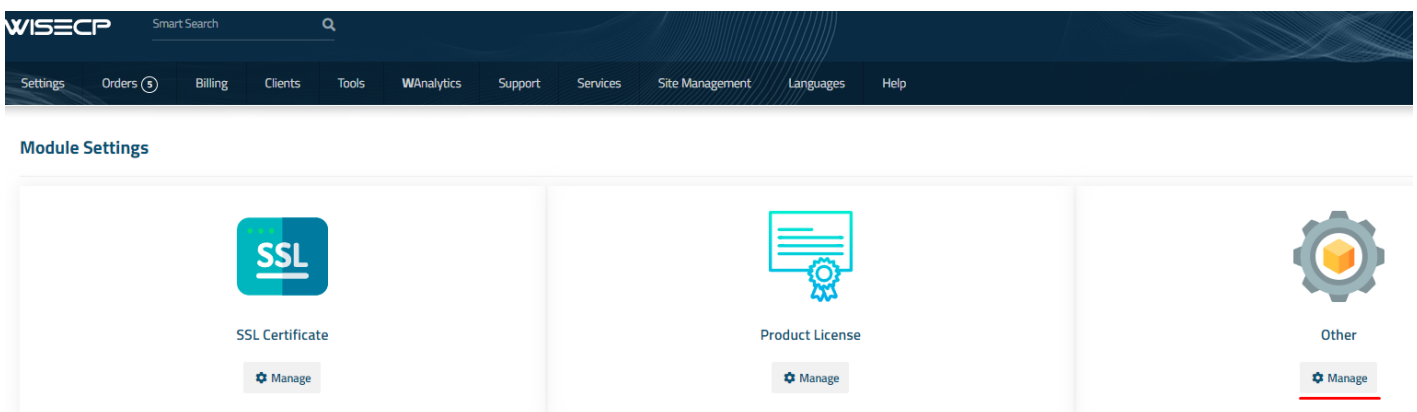
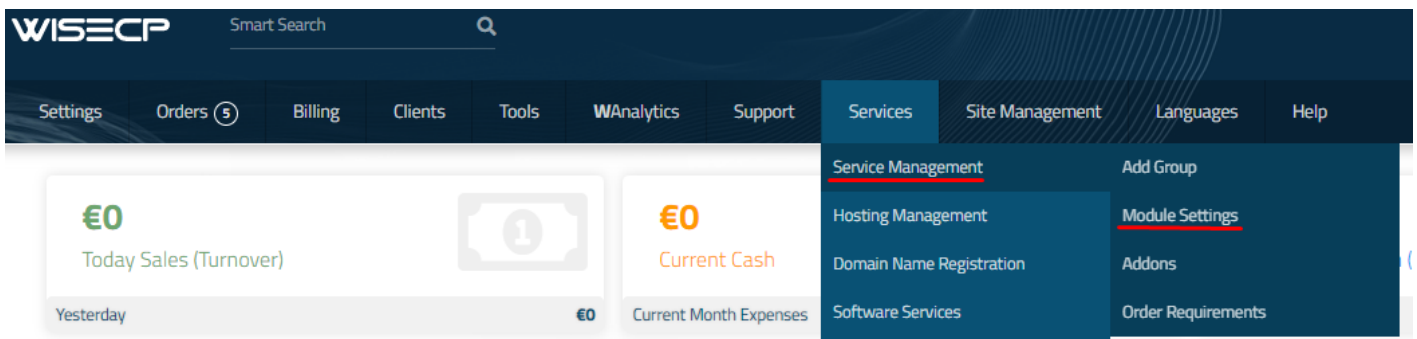
Mikrotik WireGuard VPN module

WISECP

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1. Log in to the administrative area of your **WISECP**.
2. Go to module configuration.

Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ Mikrotik WireGuard VPN



Other

Other

Dashboard / Module Settings / C

Search Within Modules

Write something...



- [Redacted]
- [Redacted]
- [Redacted]
- PUQ Mikrotik WireGuard VPN**
- [Redacted]
- [Redacted]

3. On the open page, enter the purchased license key for this product and click the '**Check and Save**' button to validate the key and save it.

Other

Dashboard / Module Settings

PUQ Mikrotik WireGuard VPN



License key

LBFAF6-[Redacted]-ECIDMQ

✓ 2023-12-19T14:43:59+01:00

Check and Save

Version: 1.0

Web Site

Documentation

Changelog

+ Add New Server

Server Groups

Servers [MikroTik](#)

Mikrotik preparation and configuration

Mikrotik WireGuard VPN module **WISECP**

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

Check RouterOS version

Make sure that the version of RouterOS is 7+

```
system/package/print
```

Enabling HTTPS Create your own root CA on your router

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

Sign the newly created CA certificate

```
/certificate  
sign LocalCA
```

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
```

Sign the newly created certificate for Webfig

```
/certificate  
sign Webfig ca=LocalCA
```

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

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

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

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

Enable WireGuard VPN server

Safe Mode Session: vpn-test.uuq.pl

WireGuard

WireGuard Peers

+ - ✓ ✗ 📁 🔍

	Name
R	wireguard1
R	puqcloud-WG
R	puq-5-JProduct ID:116
R	puq-5-2-116
R	2-114

4 items out of 5 (1 selected)

Interface <wireguard1>

General Status Traffic

Name: wireguard1

Type: WireGuard

MTU: 1420

Actual MTU: 1420

Listen Port: 7464

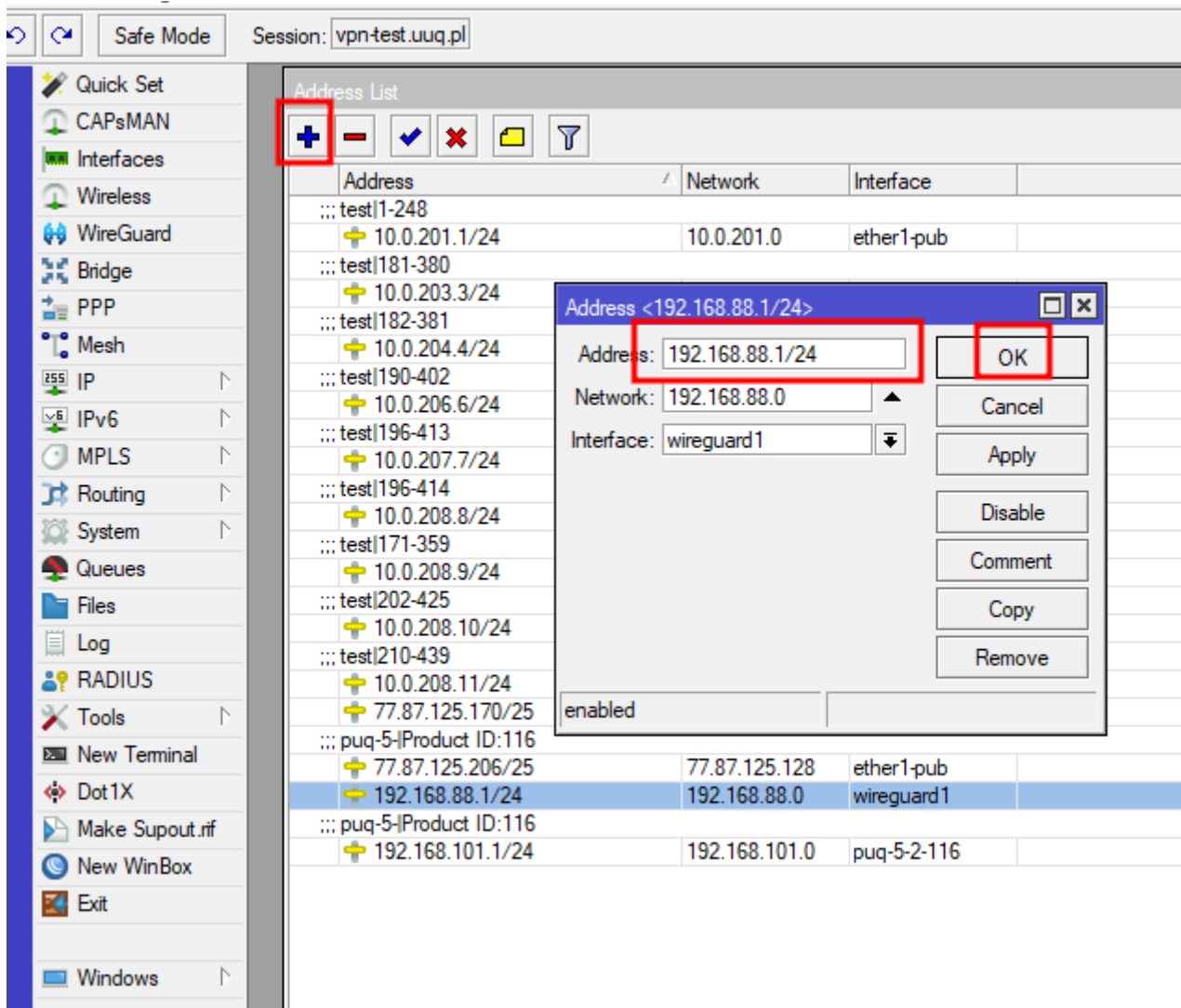
Private Key: iBnkx5LJ8vsgLNyjedEmwm2gObTa4JHcGChjivAvnM=

Public Key: EIHHaUOd8Vo06uuQ3qcgB0kssQSyN28D+1BZDEzgaXI=

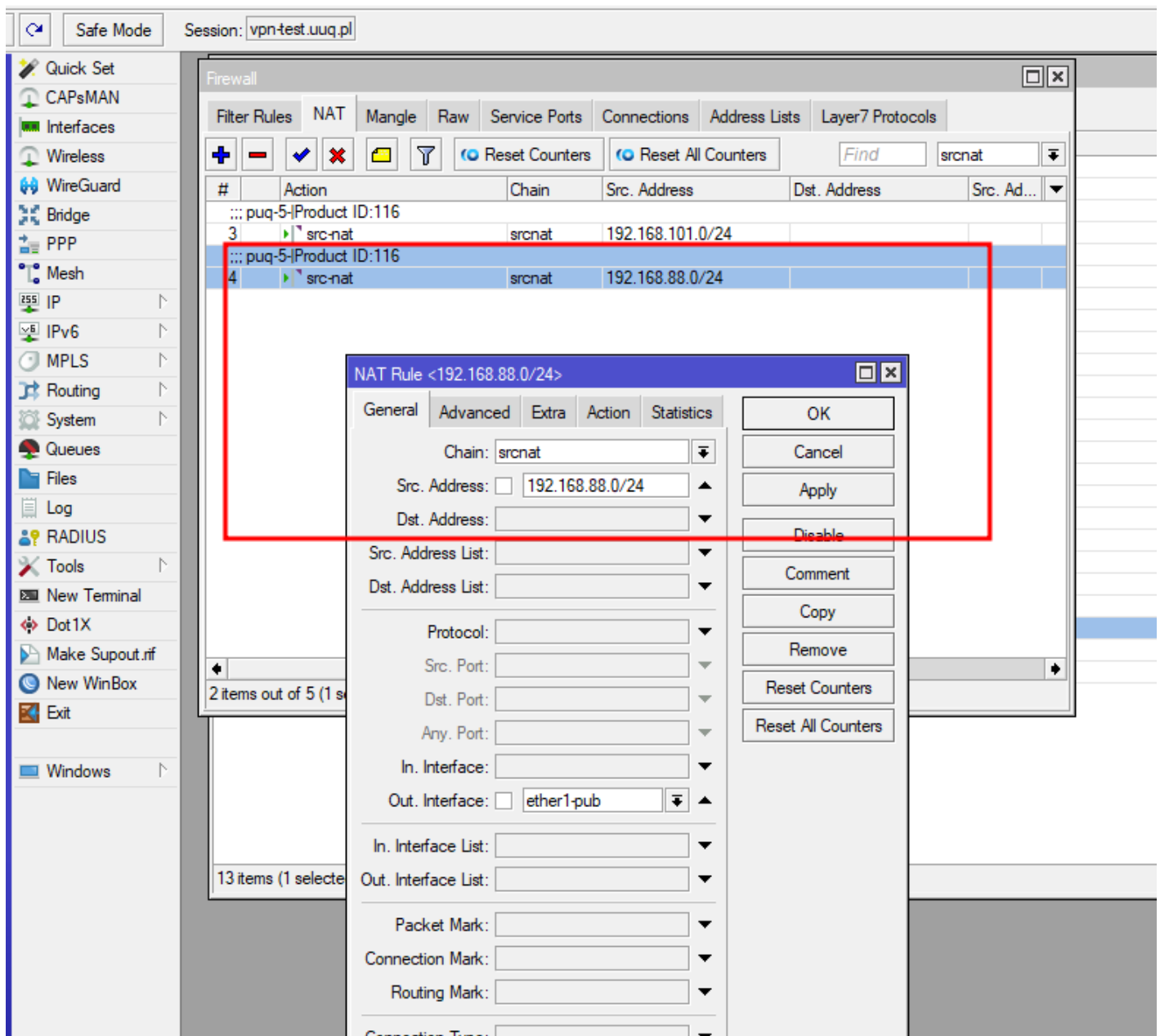
OK Cancel Apply Disable Comment Copy Remove Torch Reset Traffic Counters

enabled running slave passthrough

Add IP address on Wireguard interface



Configuring NAT rules on the firewall



Add server (Mikrotik) in WISECP

Mikrotik WireGuard VPN module

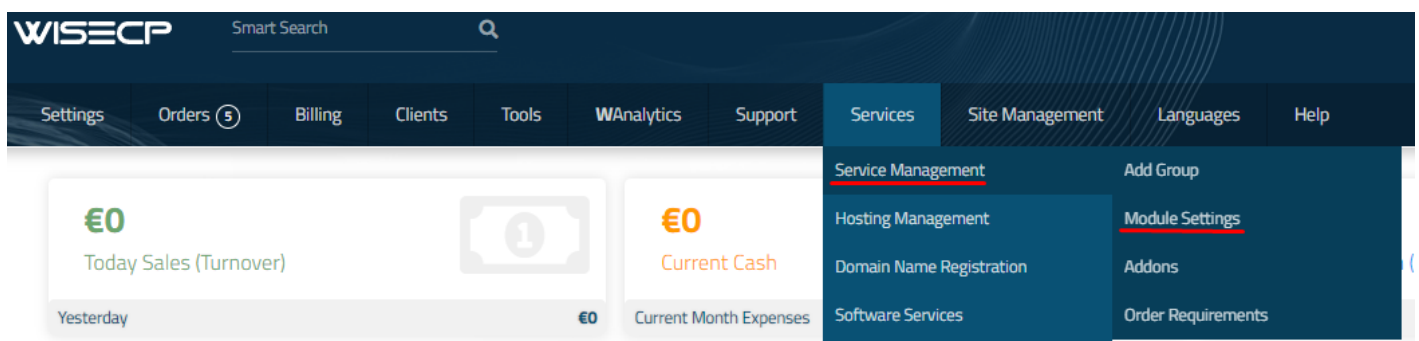
WISECP

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1. Log in to the administrative area of your **WISECP**.

2. Go to module configuration.


Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ Mikrotik WireGuard VPN



WISECP Smart Search


Settings Orders (5) Billing Clients Tools WAnalytics Support Services Site Management Languages Help

Module Settings




SSL Certificate

Manage



Product License

Manage




Other

Manage


WISECP Smart Search

Settings Orders (5) Billing Clients Tools WAnalytics Support Services Site Management Languages Help

Other



Initial Settings




All Modules

WISECP Smart Search


Settings Orders Billing Clients Tools WAnalytics Support Services Site Management Languages Help

Other

Dashboard / Module Settings / C



Initial Settings



All Modules

Search Within Modules

Write something...

PUQ Mikrotik WireGuard VPN

3. In the opened page, click the '**Add Server**' button.

WISecP Smart Search

Settings Orders Billing Clients Tools WAnalytics Support Services Site Management Languages Help

Other Dashboard / Module Setting

Initial Settings All Modules

PUQ Mikrotik WireGuard VPN

License key L8FAF6-ZXCXBC-QZIQWS-OIP95V-ECIDMQ 2023-12-19T14:43:59+01:00 [Check and Save](#)

Version: 1.0 [Web Site](#) [Documentation](#) [Changelog](#)

[+ Add New Server](#) [Server Groups](#)

Servers [MikroTik](#)

10 [Show Record](#) Search

#	Name	Status	Group	Default	IP/Domain	Usage Stats	
3	vpn-test.uuq.pl	active	Default	✓	vpn-test.uuq.pl	2/5	Edit Delete

Showing records from 1 to 1 - 1 [Prev](#) [1](#) [Next](#)

4. On the opened page, enter all the necessary information:



- **Name:** Displayed name of the server.
- **Maximum Number of Accounts:** The number of services that can be on this server.
- **Server Group:** Optionally, choose the server group.
- **DNS 1 and DNS 2:** are DNS servers that will be specified in the configuration of WireGuard clients.
- **Assigned IP Addresses:** a list of IP addresses that will be assigned to WireGuard VPN clients, with each address on a new line.
- **IP Address or Domain:** The address of the [MikroTik](#) router you are connecting to.
- **Username:** is the username for the account on [MikroTik](#).
- **Password:** is the password for the account on [MikroTik](#).
- Check the **SSL** box if you want to use SSL-encrypted connection. If necessary, specify the port and perform a connection test.



PUQ Mikrotik WireGuard VPN

[← Go to Back](#)

Add New Server

Name	vpn-test.uuq.pl
Maximum Number of Accounts	122
Server Group	Default 
Default	<input type="checkbox"/> Set as default server in group
DNS 1	77.87.125.10
DNS 2	77.87.125.20
Assigned IP Addresses (One per line)	192.168.88.2 192.168.88.3 192.168.88.10 192.168.88.20 192.168.88.30
IP Address or Domain	vpn-test.uuq.pl
Username	wisecp-dev-MWG
Password	<div></div>
SSL	<input checked="" type="checkbox"/> Connect using SSL
Port	443 <input type="checkbox"/> Change standard port
Test Connection	 Test Connection

Add New Server

[« Turn Back](#)

Service/Product configuration

Mikrotik WireGuard VPN module **WISECP**

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If you do not have a **Service Group** where you want to place the new service, you need to create a new **Service Group**

1. Log in to the administrative area of your **WISECP**.
2. Create New Service Group

Go to

Services -> Service Management -> Add Group

The screenshot displays the WISECP administrative interface. At the top, there is a dark blue header with the WISECP logo, a 'Smart Search' bar, and a navigation menu with items: Settings, Orders (5), Billing, Clients, Tools, WAnalytics, Support, Services (highlighted), Site Management, Languages, and Help. Below the header, the dashboard features several widgets. On the left, there are two summary cards: 'Today Sales (Turnover)' showing €0 for 'Yesterday' and 'Current Cash' showing €0 for 'Current Month Expenses'. On the right, a dropdown menu for 'Services' is open, listing 'Service Management', 'Hosting Management', 'Domain Name Registration', and 'Software Services'. The 'Service Management' item is further expanded to show 'Add Group' (highlighted with a red underline), 'Module Settings', 'Addons', and 'Order Requirements'.

Enter all the necessary data and click the '**Create Group**' button.

WISECP

Smart Search

Q

SettingsOrders (5)BillingClientsToolsWAnalyticsSupportServicesSite ManagementLanguagesHelp

Create New Service Group

Dashboard / Create New Service Group

Create a new service group, you can also create new categories and manage the existing one from here.

ENUKPL

Title

VPN

Short Detail

Short Group Description

Listing Template

☒ Box List ☐ Horizontal List

Status

Enable

Background Image

(optional)

Group Colour

#FFFFFF

Order Upgrades

☐ Allow clients to upgrade to higher package in the same service group

External HTML Code

Paste your HTML code to this field (Optional)

You can optionally add external HTML code and customize it. There should not be any incorrect or incomplete HTML codes, otherwise page structure will be empty

3. Adding a New Service

Go to

Services -> our service group where you need to add the new service.

WISECP

Smart Search

Q

SettingsOrders (5)BillingClientsToolsWAnalyticsSupportServicesSite ManagementLanguagesHelp

€0

Today Sales (Turnover)

Yesterday

€0

Current Cash

Current Month Expenses

0

Overdue Invoice

(Total €0)

0

Payment Date Up

(Total €0 / Last 7 Days)

0

Client Registr

Yesterday

5

Order in the P

(Total €65)

Service Management

Hosting Management

Domain Name Registration

Software Services

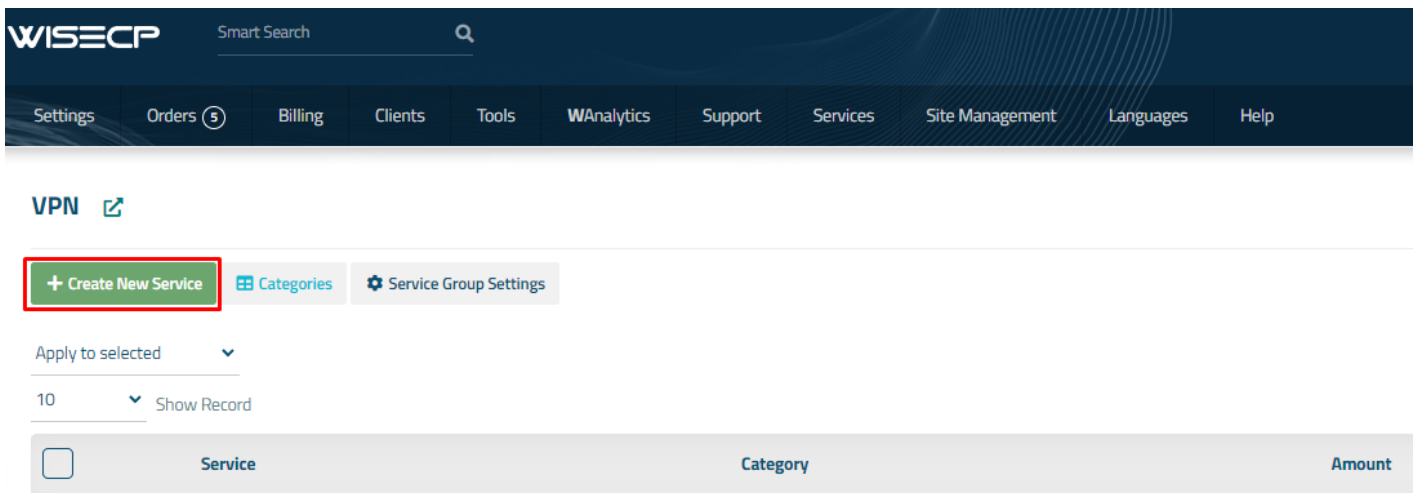
International SMS Services

Google SEO Services

VPN

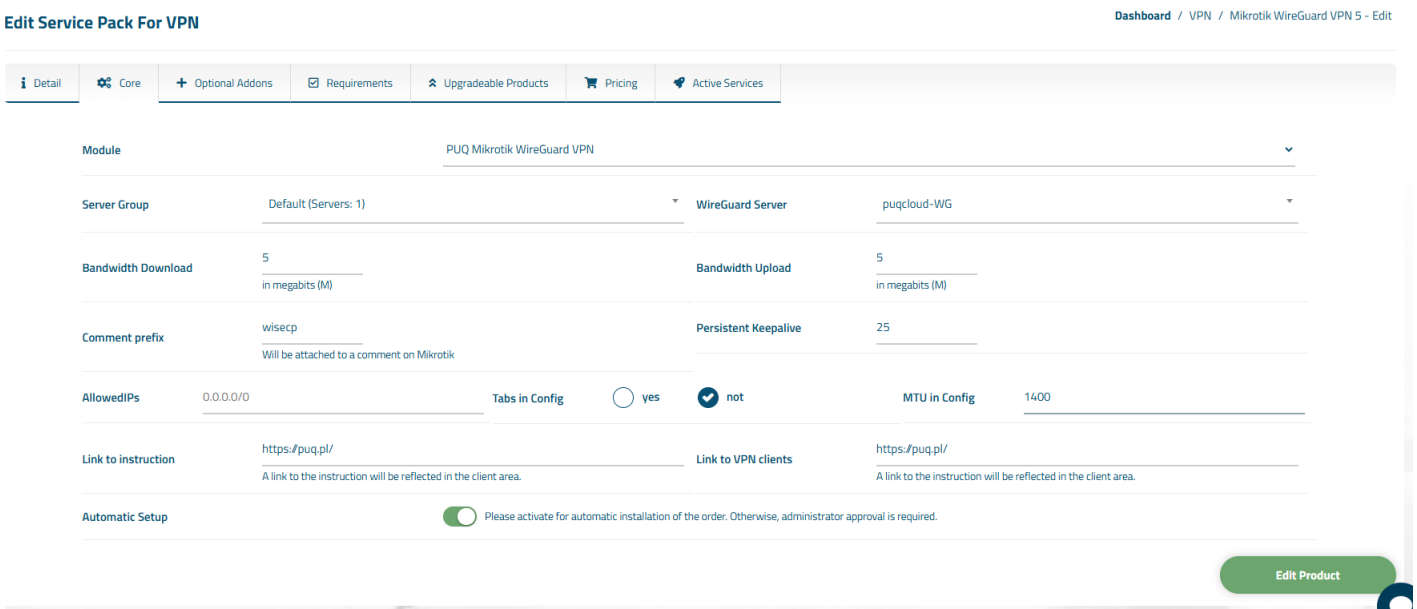
Media

In the opened window, click the '**Create New Service**' button.



On the opened page, enter all the necessary details for your new service and navigate to the '**Core**' tab.

Select the '**PUQ Mikrotik WireGuard VPN**' module from the drop-down list of modules.



4. Fill in the configuration options according to your preferences.

- **Server Group** is the group of servers from which a server will be chosen for provisioning the service
- **WireGuard Server** is the name of the **WireGuard** server that was created in **MikroTik**

Attention:

The **WireGuard Server** field is updated only after saving or adding the service. You will need to revisit this section to select the **WireGuard Server** and save the service. Additionally, the **WireGuard Server** must be created on all servers within the group.

- **Bandwidth Download** and **Bandwidth Upload** represent the connection speed that

will be restricted by these parameters, in megabits per second, respectively.

- **Comment Prefix** will be added at the comment in **MikroTik**
- **Persistent Keepalive** and **AllowedIPs:** parameters of configuration WireGuard clients
- **Tabs in Config** - Configuration file format with tabs or not
- **MTU in Config** -Display MTU in config file
- **Link to Instruction** Provide the link to the instruction for the service, and it will be displayed in the client area as a separate button
- **Link to VPN Clients** Provide the link to the page for downloading VPN clients for the service, and it will be displayed in the client area as a separate button
- **Automatic Setup** Please activate for automatic installation of the order. Otherwise, administrator approval is required.