

# Installation and configuration guide

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# Setup (install/update)

## Mikrotik WireGuard VPN module

# WISECP

[Order now](#) | [Download](#) | [FAQ](#)

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/](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

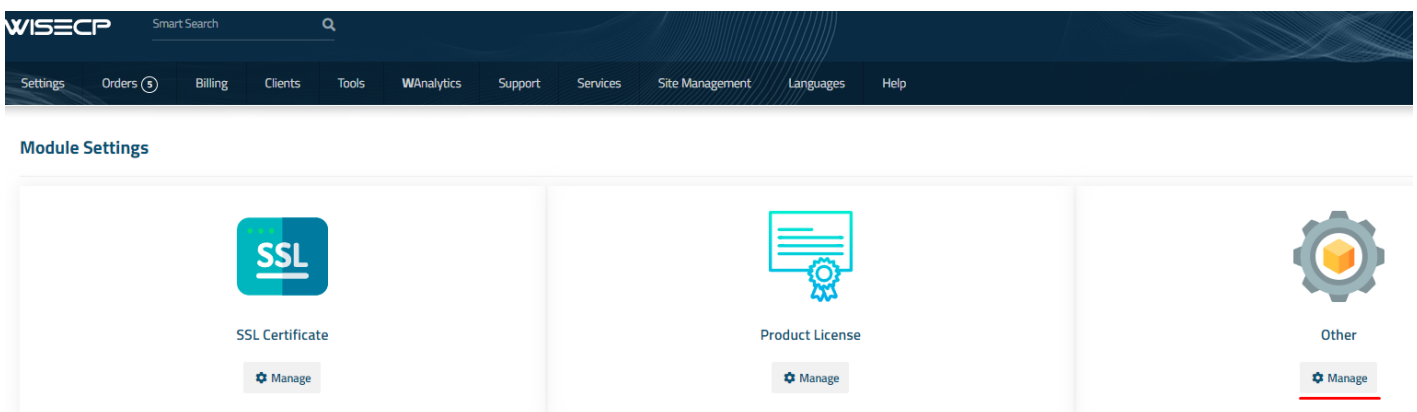
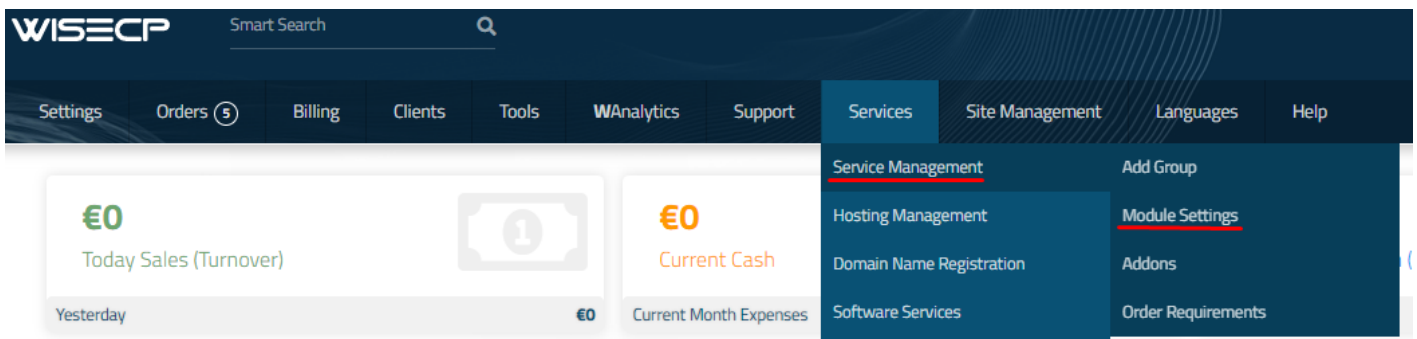
## Mikrotik WireGuard VPN module

# 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

Initial Settings **All Modules**

Other

Dashboard / Module Settings / C

Initial Settings **All Modules**

### 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

Initial Settings **All Modules**

### 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

The screenshot shows the WinBox interface with the 'WireGuard' menu item highlighted in the left sidebar. The main window displays the 'WireGuard' configuration for 'wireguard1'. The 'General' tab is active, showing fields for Name, Type, MTU, Listen Port, Private Key, and Public Key. The 'OK' button is highlighted in the top right corner of the configuration window. The status bar at the bottom indicates the interface is 'enabled' and 'running'.

| Name                 |
|----------------------|
| wireguard1           |
| puqcloud-WG          |
| puq-5-Product ID:116 |
| puq-5-2-116          |
| 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: EHHaUOd8Vo06uuQ3qcgB0kssQSyN28D+1BZDEzgaXI=

OK

Cancel

Apply

Disable

Comment

Copy

Remove

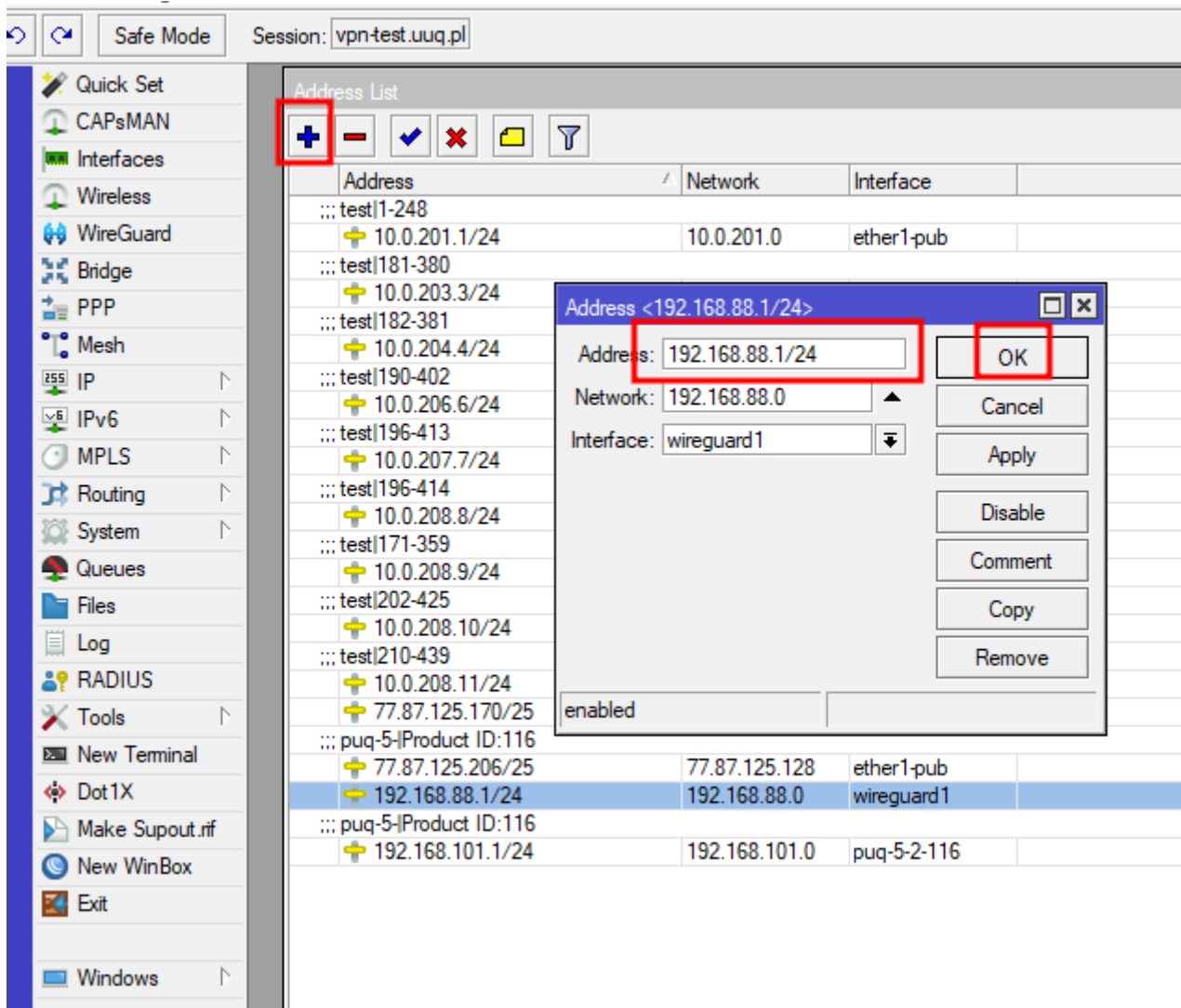
Torch

Reset Traffic Counters

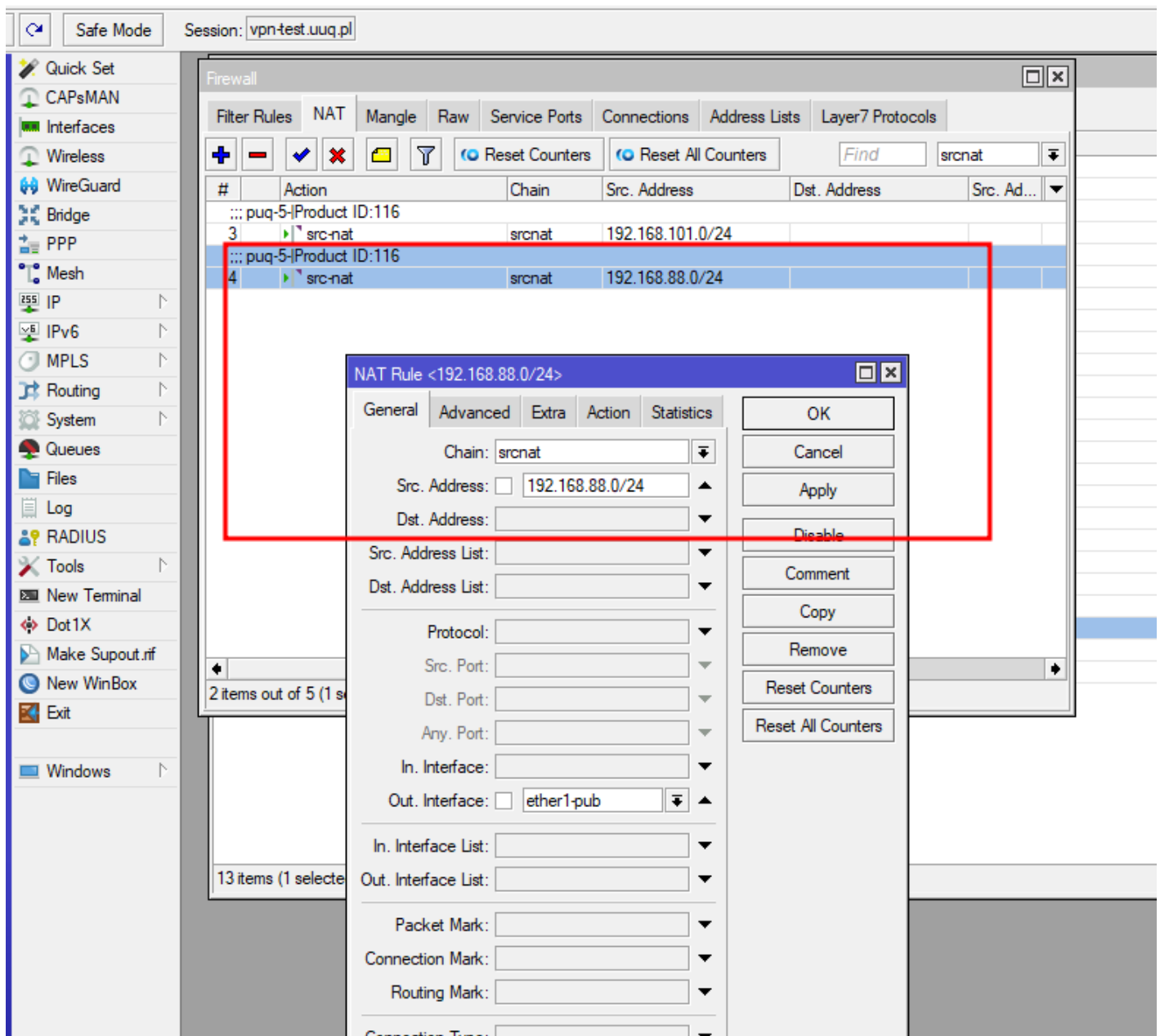
enabled running slave passthrough

Add IP address on Wireguard interface





Configuring NAT rules on the firewall



# Add server (Mikrotik) in WISECP

## Mikrotik WireGuard VPN module

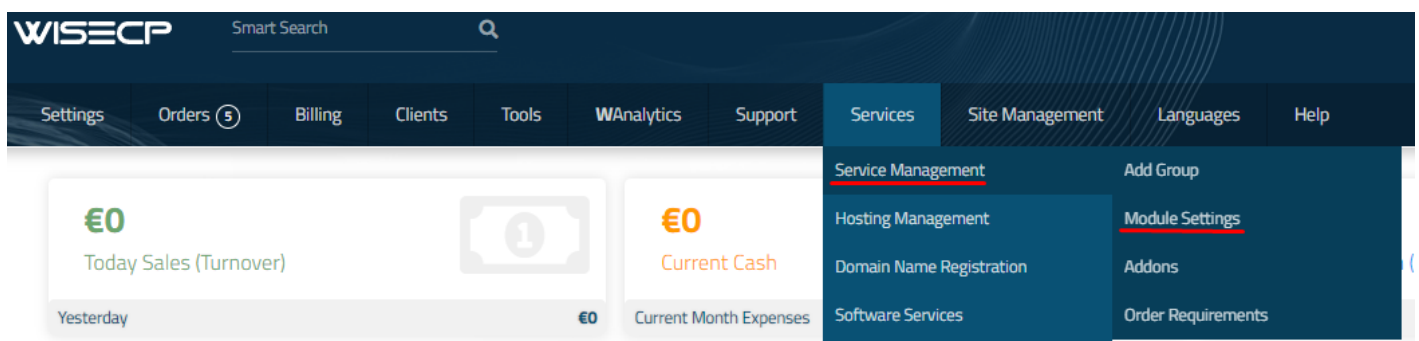
# WISECP

[Order now](#) | [Download](#) | [FAQ](#)

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         | <a href="#">Edit</a> <a href="#">Delete</a> |

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<br>(One per line) | 192.168.88.2<br>192.168.88.3<br>192.168.88.10<br>192.168.88.20<br>192.168.88.30             |
| IP Address or Domain                    | vpn-test.uuq.pl   |
| Username                                | wisecp-dev-MWG  |
| Password                                | <div><div></div></div>  |
| SSL                                     | <input checked="" type="checkbox"/> Connect using SSL                                       |
| Port                                    | 443 <input type="checkbox"/> Change standard port   |
| Test Connection                         | <div><div></div> Test Connection</div>  |

Add New Server

[← Turn Back](#)



# Service/Product configuration

## Mikrotik WireGuard VPN module **WISECP**

[Order now](#) | [Download](#) | [FAQ](#)

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 Month Expenses' showing '€0'. 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, showing '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

€0

Current Cash

Current Month Expenses

€0

0

Overdue Invoice (Total €0)

Payment Date Up (Total €0 / Last 7 Days)

5

Order in the P (Total €65)

Service Management

Hosting Management

Domain Name Registration

Software Services

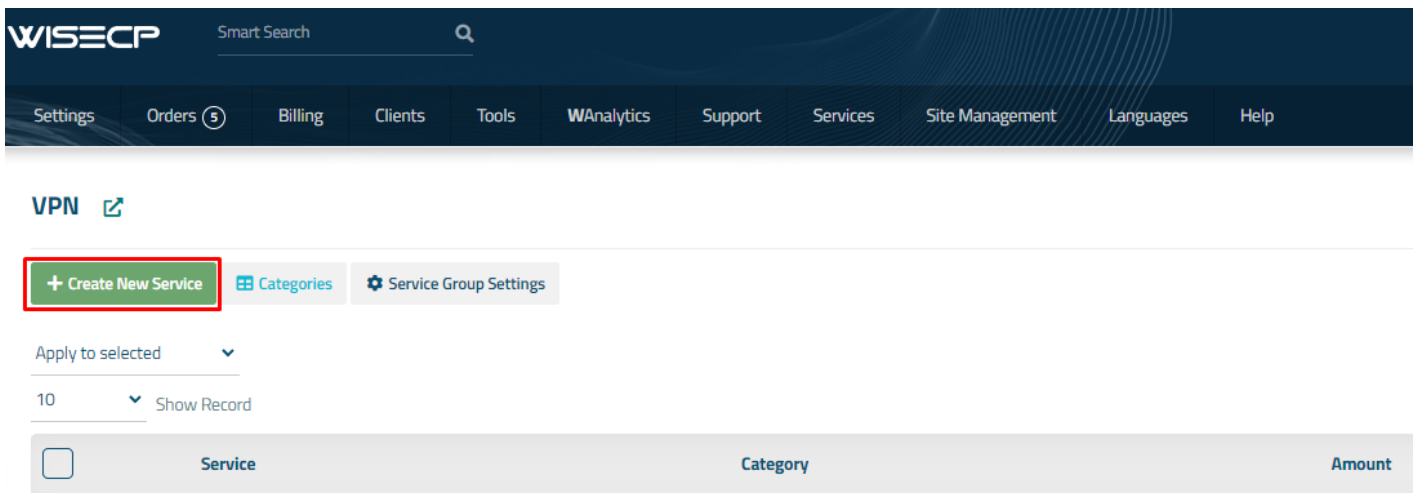
International SMS Services

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.

**Edit Service Pack For VPN** Dashboard / VPN / Mikrotik WireGuard VPN 5 - Edit

---

Detail
Core
+ Optional Addons
Requirements
Upgradeable Products
Pricing
Active Services

---

|                     |   |   |                      |   |
|---------------------|---|---|----------------------|---|
| Module              | PUQ Mikrotik WireGuard VPN  |   |                      | ▼   |
| Server Group        | Default (Servers: 1)  | ▼ | WireGuard Server     | puqcloud-WG   |
| Bandwidth Download  | 5   |   | Bandwidth Upload     | 5   |
|                     | in megabits (M)   |   |                      | in megabits (M)   |
| Comment prefix      | wisecp  |   | Persistent Keepalive | 25  |
|                     | Will be attached to a comment on Mikrotik   |   |                      |   |
| AllowedIPs          | 0.0.0.0/0   |   | MTU in Config        | 1400  |
|                     | Tabs in Config <input type="radio"/> yes <input checked="" type="radio"/> not   |   |                      |   |
| Link to instruction | https://puq.pl/   |   | Link to VPN clients  | https://puq.pl/   |
|                     | A link to the instruction will be reflected in the client area.   |   |                      | A link to the instruction will be reflected in the client area. |
| Automatic Setup     | <input checked="" type="checkbox"/> Please activate for automatic installation of the order. Otherwise, administrator approval is required. |   |                      |   |

Edit Product

#### 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.