

Installation and configuration guide

- [Setup \(install/update\)](#)
- [License Activation](#)
- [PUQVPNCP installation and configuration](#)
- [Add server \(PUQVPNCP\) in WISECP](#)
- [Service/Product configuration](#)

Setup (install/update)

WireGuard Business-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-WireGuard-Business-VPN/PUQ_WISECP-WireGuard-Business-VPN-latest.zip
```

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

2. Unzip the archive with the module.

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

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

License Activation

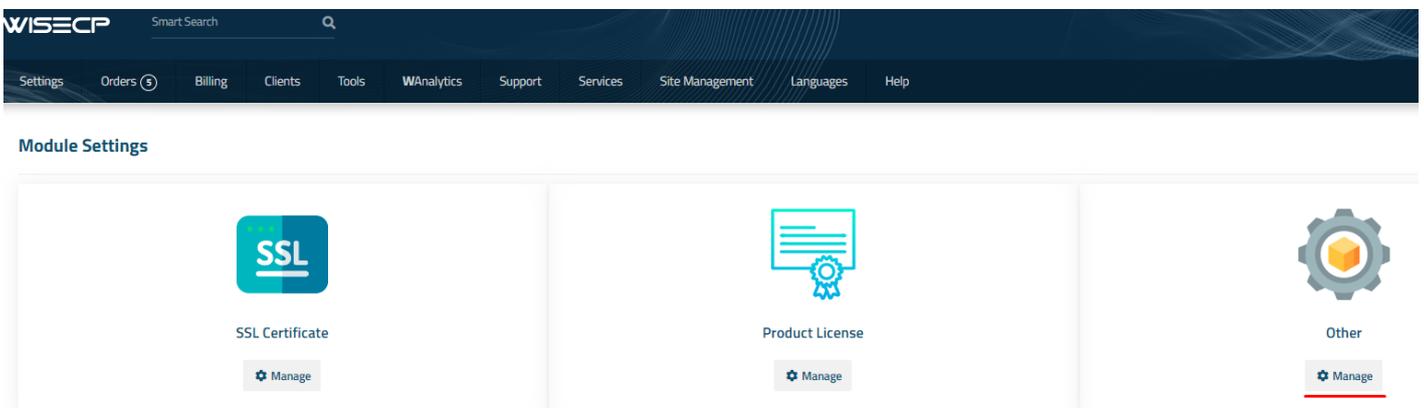
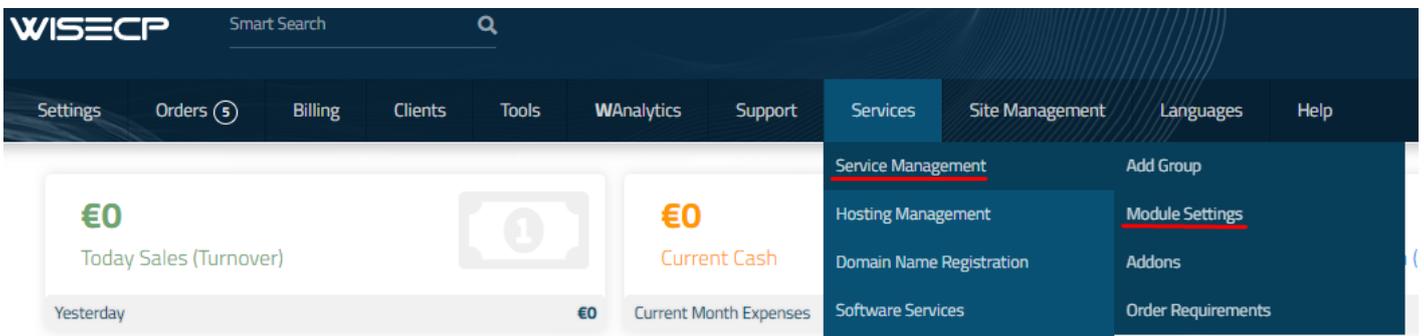
WireGuard Business-VPN module **WISECP**

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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 WireGuard Business-VPN



Other

- Initial Settings
- All Modules**

Other

Dashboard / Module Settings

- Initial Settings
- All Modules**

Search Within Modules

Write something... [Q]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- PUQ WireGuard Business-VPN**
- [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 WireGuard Business-VPN



License key TI4J5Y-[REDACTED]-MQLNSQ ✓ 2023-12-16T21:57:37+01:00 [Check and Save](#)

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

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

Servers [PUQVPNCP](#)

PUQVPNCP installation and configuration

WireGuard Business-VPN module **WISECP**

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Official documentation:

[PUQVPNCP Documentation](#)

[PUQVPNCP Download](#)

[PUQVPNCP Order now](#)

1. Install the required packages

```
apt-get update
apt-get install wireguard wireguard-dkms wireguard-tools -y
apt-get install iproute2 iptables -y
apt-get install bind9 -y
```

2. Download the latest version of the package

<https://download.puqcloud.com/cp/puqvpncp/>

3. Install the puqvpncp package

```
wget https://download.puqcloud.com/cp/puqvpncp/puqvpncp_XXXX_amd64.deb
```

```
dpkg -i puqvpncp_XXXX_amd64.deb
```

4. After installation, connect to your server via a web browser.

http://SERVER_IP:8098

Username: admin

Password: admin

The screenshot shows the PUQVPNCP web interface. At the top, there is a navigation bar with a logo, a help button, a user profile (ruslan (79.184.10.59)), and a logout button. The main content area is divided into several sections:

- Dashboard:** Contains links for VPN servers, Requirements, VPN accounts, Settings, and About us.
- Server Information:** A table with the following data:

Hostname:	dev.softkeel.com
OS Name:	Debian GNU/Linux 11 (bullseye)
Architecture:	amd64
CPU:	Common KVM processor
CPU Threads:	4
Load:	0.82, 0.03, 0.14
Memory:	7956 MB Used: 70%
Timezone:	Europe/Warsaw
- PUQVPNCP Status:** A table with the following data:

Status:	OK
Version:	1.0
WireGuards:	109
VPN Accounts:	548/550
License:	2023-11-13T18:38:43+01:00

Buttons for 'License' and 'Reload' are present.
- WireGuard:** A table with the following data:

wireguard:	1.0.20210223-1
wireguard-dkms:	1.0.20210219-1

A 'Configure' button is below.
- Firewall:** A table with the following data:

iptables:	1.8.7-1
iproute2:	5.10.0-4

A 'Configure' button is below.
- DNS server:** A table with the following data:

bind9:	1:9.16.33-1~deb11u1
Running:	PID: 3092940

A 'Configure' button is below.

In order for the system to start the procedure for obtaining an SSL certificate from Let's Encrypt, it is necessary to set the active domain name that resolves the server's IP address. Port 80 and 443 are always open, and not used with another process.

In the configuration file, enable the use of SSL and enter the domain name.

```
nano /etc/puqvpncp/puqvpncp.conf
```

```
LetsEncrypSSL=yes  
Domain=XXXXXX.XXX
```

Restart the **PUQVPNCP** service

```
service puqvpncp restart
```

After these steps, the first time you connect to the server via the https protocol, the system will request an SSL certificate and automatically renew it if necessary.

ATTENTION. After activating SSL, the system will only work in the https protocol on port 443. A redirect is also set from port 80 to port 443.

To connect to the server via the https protocol, use only the domain that was set in the configuration file.
Otherwise, you will get an error that SSL is not working correctly.

6. License configuration is available in the menu item **Settings->License**

The screenshot shows the WHMCS interface with the following elements:

- Top navigation bar:** PUQVPNCP logo, ? HELP ?, ruslan (79.184.10.59), Logout.
- Left sidebar:** Dashboard, VPN servers, VPN accounts, Settings (Firewall, DNS, One-time link, System users, API, License), About us.
- Main content area:**
 - License configuration:** A form with a "License Key" field and a "Save" button.
 - API Access Hashes:** A section titled "API Access Hashes" with a "Successfully" notification. It includes a form to add a new hash (Name, IP, Add button) and a table of existing hashes. A "Copy hash" button is next to the generated hash.

Name	IP	Created data	Last Login	Action
test2	1.1.1.1	2022-11-18T10:38:37+01:00		Delete
TEST	79.184.10.59	2022-11-15T15:23:05+01:00	2022-11-17T09:36:57+01:00	Delete
piotr2	79.184.10.59	2022-11-17T14:26:40+01:00	2022-11-17T14:42:08+01:00	Delete
Piotr	79.184.10.59	2022-11-16T14:23:48+01:00		Delete

Enter the name and IP address of the WHMCS server and click the ADD button

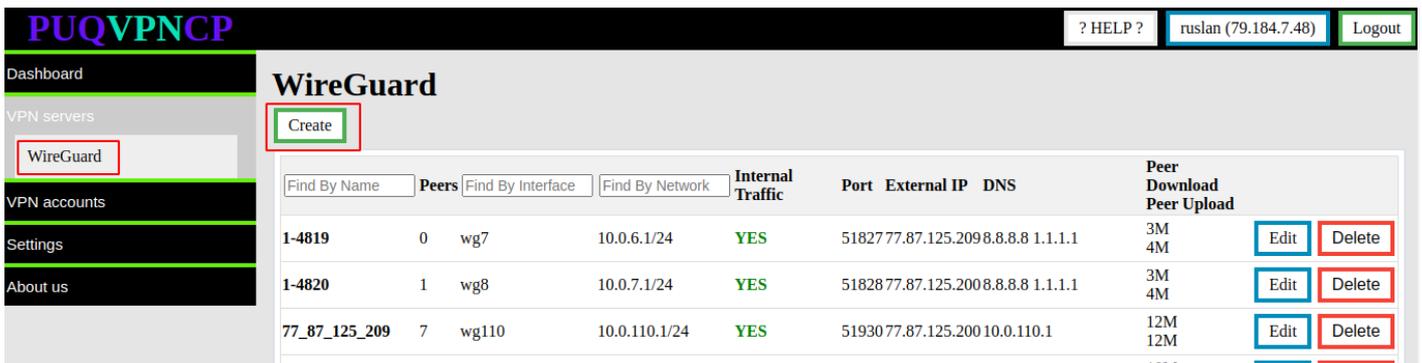
Attention.

The generated Access hash will only be shown once. Copy it, it will be needed during configuration of the product server in the WHMCS system.

Accept the fact that once the Access Hashs API is created, it will only be shown once. Each API Access Hash only works from a specific IP address.

8. Creation of access API

Add new WireGuard is available in the menu item **VPN servers->WireGuard->Click Create**



PUQVPNCP ? HELP ? ruslan (79.184.7.48) Logout

Dashboard

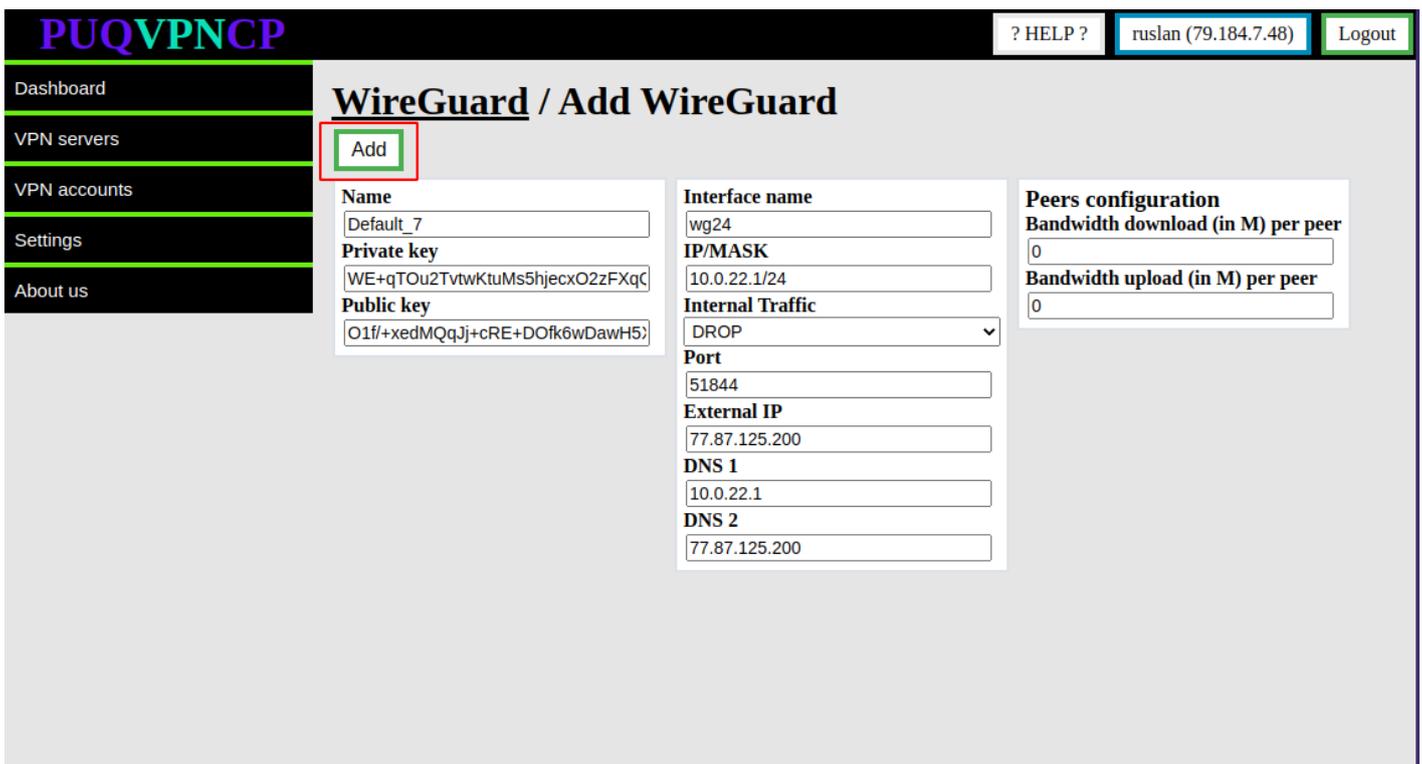
VPN servers

WireGuard

WireGuard

Create

Find By Name	Peers	Find By Interface	Find By Network	Internal Traffic	Port	External IP	DNS	Peer Download	Peer Upload		
1-4819	0	wg7	10.0.6.1/24	YES	51827	77.87.125.209	8.8.8.8 1.1.1.1	3M	4M	Edit	Delete
1-4820	1	wg8	10.0.7.1/24	YES	51828	77.87.125.200	8.8.8.8 1.1.1.1	3M	4M	Edit	Delete
77_87_125_209	7	wg110	10.0.110.1/24	YES	51930	77.87.125.200	10.0.110.1	12M	12M	Edit	Delete



PUQVPNCP ? HELP ? ruslan (79.184.7.48) Logout

Dashboard

VPN servers

VPN accounts

Settings

About us

WireGuard / Add WireGuard

Add

Name
Default_7

Private key
WE+qTOu2TvtwKtuMs5hjecxO2zFXqC

Public key
O1f/+xedMQqJj+cRE+DOfk6wDawH5J

Interface name
wg24

IP/MASK
10.0.22.1/24

Internal Traffic
DROP

Port
51844

External IP
77.87.125.200

DNS 1
10.0.22.1

DNS 2
77.87.125.200

Peers configuration
Bandwidth download (in M) per peer
0

Bandwidth upload (in M) per peer
0

Enter or edit the parameters of the new server/interface and click the **ADD** button

Add server (PUQVPNCP) in WISECP

WireGuard Business-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 WireGuard Business-VPN

The screenshot displays the WISECP administrative dashboard. At the top, there is a navigation bar with the WISECP logo and a search bar. Below the navigation bar, there are several menu items: Settings, Orders (5), Billing, Clients, Tools, WAnalytics, Support, Services, Site Management, Languages, and Help. The 'Services' menu item is highlighted, and a dropdown menu is visible. The dropdown menu contains the following items: Service Management (underlined), Add Group, Hosting Management, Module Settings (underlined), Domain Name Registration, Addons, Software Services, and Order Requirements. On the left side of the dashboard, there are two summary cards: 'Today Sales (Turnover)' with a green Euro symbol and 'Current Month Expenses' with an orange Euro symbol. The 'Current Month Expenses' card shows a value of '€0'.

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

Initial Settings All Modules

Search Within Modules

Write something...

Search results showing:

- PUQ WireGuard Business-VPN

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

WIS3CP Smart Search

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

Other Dashboard / Module Settings /

Initial Settings All Modules

PUQ
cloud

PUQ WireGuard Business-VPN

License key TI4J5Y- MQLNSQ 2023-12-16T21:57:37+01:00 [Check and Save](#)

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

Servers [PUQVPNCP](#)

10 Show Record Search

#	Name	Status	Group	Default	IP/Domain	Usage Stats
5	dev.softkeel.com	active	Default	✔	dev.softkeel.com	1/10

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.
- **Main Public IP Address:** is the public IP that will be used in those services which will utilize a single public IP for all.
- **DNS 1 and DNS 2:** are DNS servers that will be specified in the configuration of WireGuard clients.
- **IP Address or Domain:** The address of the PUQVPNCP server you are connecting to
- **Access Hash:** API key that you created in the previous step on the PUQVPNCP server. (IP addresses should be configured on the interfaces in PUQVPNCP.)
- Check the **SSL** box if you want to use SSL-encrypted connection. If necessary, specify the port and perform a connection test.

[← Go to Back](#)

Add New Server

Name	<input type="text" value="dev.softkeel.com"/>
Maximum Number of Accounts	<input type="text" value="10"/>
Server Group	Default ▼
Default	<input type="checkbox"/> Set as default server in group
Main Public IP Address	<input type="text" value="77.87.125.200"/>
DNS 1	<input type="text" value="77.87.125.10"/>
DNS 2	<input type="text" value="77.87.125.20"/>
Assigned IP Addresses (One per line)	<input type="text" value="77.87.125.201"/> <input type="text" value="77.87.125.202"/> <input type="text" value="77.87.125.203"/> <input type="text" value="77.87.125.204"/> <input type="text" value="77.87.125.205"/> <input type="text" value="77.87.125.206"/> <input type="text" value="77.87.125.207"/> <input type="text" value="77.87.125.208"/> <input type="text" value="77.87.125.209"/>
IP Address or Domain	<input type="text" value="dev.softkeel.com"/> <input type="text" value="e7472a16f59154643385eee5d6c313857106dfe8a12acdc8b77722af8f2fc3d4394a977b191889d8"/>
Access Hash	<input type="text"/>
SSL	<input checked="" type="checkbox"/> Connect using SSL
Port	<input type="text" value="443"/> <input type="checkbox"/> Change standard port
Test Connection	<input type="button" value="🚩 Test Connection"/>

Service/Product configuration

WireGuard Business-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 dashboard. 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, Site Management, Languages, and Help. The 'Services' menu item is highlighted, and its dropdown menu is open, showing 'Service Management' (with 'Add Group' highlighted in red), 'Hosting Management', 'Domain Name Registration', and 'Software Services'. Below the header, there are two summary cards: 'Today Sales (Turnover)' for 'Yesterday' and 'Current Cash' for 'Current Month Expenses'. The 'Current Cash' card shows a value of €0.

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

The screenshot shows the 'Create New Service Group' form in the WISECP dashboard. The form includes the following fields and options:

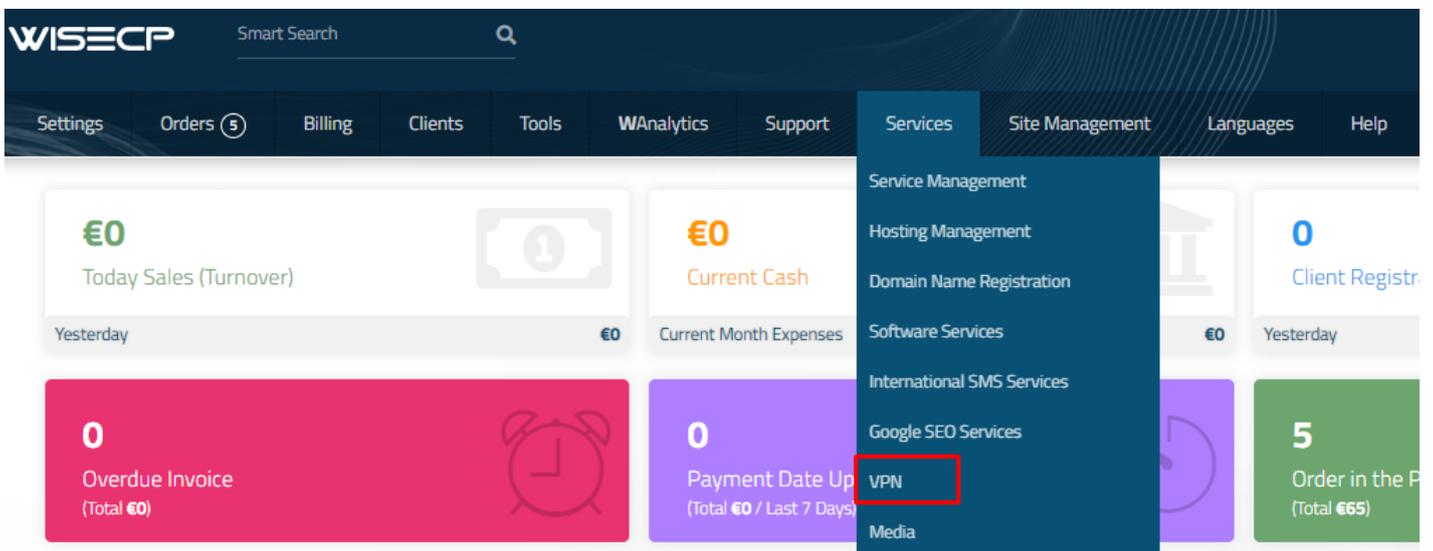
- Title:** VPN
- Short Detail:** Short Group Description
- Listing Template:** Box List Horizontal List
- Status:** Enable
- Background Image:** (optional) [Image upload area]
- Group Colour:** #FFFFFF
- Order Upgrades:** Allow clients to upgrade to higher package in the same service group
- External HTML Code:** Paste your HTML code to this field (Optional)

At the bottom of the form, there is a note: "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.



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

VPN

+ Create New Service Categories Service Group Settings

Apply to selected
10 Show Record

Service	Category	Amount
---------	----------	--------

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

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

i Detail Core + Optional Addons Requirements Upgradeable Products Pricing Active Services

Module: PUQ WireGuard Business-VPN

Server Group	Default (Servers: 1)	Number of VPN users	5
Bandwidth Download	5 in megabits (M)	Bandwidth Upload	5 in megabits (M)
Username prefix	wiseCP- <small>Will be attached to the beginning of username. Only small letters and numbers and symbol "-"</small>	Username suffix	-puq <small>Will be appended to the end of username. Only small letters and numbers and symbol "-"</small>
Use main Public IP Address	<input type="checkbox"/> Use one main public IP for all services	Internal traffic	<input checked="" type="checkbox"/> Allow internal traffic
Enable IKEv2	<input checked="" type="checkbox"/> To enable the IKEv2 protocol	Persistent Keepalive	25
Interface MTU	1500	AllowedIPs	0.0.0.0/0
Link to instruction	https://puqcloud.com/ <small>A link to the instruction will be reflected in the client area.</small>	Link to VPN clients	https://puqcloud.com/ <small>A link to the instruction will be reflected in the client area.</small>

Automatic Setup 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
- **Number of VPN Accounts:** the quantity of VPN user accounts a client can create within this package
- **Bandwidth Download** and **Bandwidth Upload** represent the connection speed that will be restricted by these parameters, in megabits per second, respectively.
- **Username prefix:** Will be attached to the beginning of username. Only small letters and numbers and symbol "-"
- **Username suffix:** Will be appended to the end of username. Only small letters and numbers and symbol "-"
- **Use main Public IP Address:** Use one main public IP for all services

- **Internal Traffic:** If the checkbox is selected, it indicates that internal traffic between VPN clients of the client will be allowed.
- **Persistent Keepalive/AllowedIPs:** parameters of configuration WireGuard clients
- **Interface MTU:** This parameter will be set during the creation of the WireGuard interface.
- **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