WireGuard Business-VPN WHMCS module

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Description

WireGuard Business-VPN module **WHMCS**

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The WireGuard Business VPN module provides the ability to sell the Virtual Private Network service to business customers.

The module is designed as a professional solution for companies and corporations, which enables remote access to company resources from anywhere in the world in a safe and monitored manner. The biggest difference from common VPN solutions such as NordVPN, EasyVPN etc. is the professional nature of the service.

Attention.
The module require the PUQVPNCP control panel with active license.

PUQVPNCP Documentation

PUQVPNCP Download

PUQVPNCP Order now

What makes Business VPN different from regular, widely offered VPNs

The end customer of the service receives such opportunities as:

- Dedicated permanent IP address
- Full management of VPN accounts to the end buyer: Create, modify, delete and block VPN accounts

Thanks to our solution, the client does not have to delegate the company's resources to carry out this activity, but focus on the practical side of using it, thanks to which he saves money.

This model of operation allows IT departments in companies to configure in detail and securely internal Firewall, passing specific ports, detailed traffic monitoring, or to keep through internal IDS *which is not possible when using commonly offered solutions.*
Such a VPN becomes an integral part of the company's IT infrastructure and is ideally suited to the conditions of a given client.

Who and why needs such a service that this module provides.

The service offers to the end customer a fully fledged private network.

1. The service combines all nodes that are connected via VPN into one private network. This allows you to communicate with each other from different physical locations. An example of use is, the remote work of the company's staff, having private remote access to each other. Also, due to the fact that each connected VPN user will be presented on the Internet with the public address of the service, it is possible to configure access to the company's servers only from the IP address of the service. Thus restrict access only to everyone except users of the service.
2. If your employees need to have access to some sites on the Internet and be represented by a public address of a certain geographic location, then this service allows you to implement it. The public address of the service is not changed during the entire time of using the service.
3. Ability to connect network devices, such as measuring instruments, to the same network, creating remote access to network equipment.

Module Functions:

- Auto create and deploy VPN account/accounts
- Suspend/Unsuspend/Terminate/Change Package
- Require active license for **PUQVPNCP** API
- Possibility to set Bandwidth speed limits
- Module supports multilingualism **(Arabic, Azerbaijani, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, French, German, Hebrew, Hungarian, Italian, Macedonian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish, Ukrainian)**
- Account limit per package

- Bandwidth Limit per account
- Link to instructions for setting up the service in the client area
- Port forwarding

Functions of the client area:

- Creating VPN Accounts
- Deleting a VPN account
- Blocking VPN account

WHMCS minimal version: 8 +

PUQVPNCP: 1.6 +

Overview
Information
Add VPN account
Port Forwarding

Actions
Request Cancellation

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WireGuard Business-VPN 10

Business-VPN

ACTIVE

Request Cancellation

Registration Date
Saturday, February 4th, 2023

Recurring Amount
2.00$

Billing Cycle
Monthly

Next Due Date
Tuesday, April 4th, 2023

Payment Method
Bank Transfer

Manage

Network configuration

Dedicated IP:	77.87.125.200
Private internal network:	10.0.22.1/24
VPN Protocols:	WireGuard, IKEv2
Number of VPN accounts:	4/5
Bandwidtht download/upload:	100/100 M

User manual

Download VPN client

Add VPN account | Port Forwarding

✔	**1-4852-111** (10.0.22.3)	WireGuard online: not	IKEv2 online: not	Management
✔	**1-4852-45** (10.0.22.4)	WireGuard online: not	IKEv2 online: not	Management
✔	**1-4852-77777** (10.0.22.17)	WireGuard online: not	IKEv2 online: not	Management
✔	**1-4852-8** (10.0.22.254)	WireGuard online: not	IKEv2 online: not	Management

PUQ cloud

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0

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Portal Home / Client Area / My Products & Services / Product Details

Overview

- Information
- Add VPN account
- Port Forwarding

Actions

- Request Cancellation

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Add VPN account

Username: 1-4852- Enter username

Password: Enter password Generate

IP address: 10.0.22.2

Add VPN account

Overview
Information
Add VPN account
Port Forwarding

Actions
Request Cancellation

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Management VPN account

Delete Save

Username: 1-4852-111

Password: Y8WAg7NUKwee Generate

IP address: 10.0.22.3

Enabled:

Download VPN client

Create one-time link

WireGuard configuration

DOWNLOAD CONFIG

```
[Interface]
        Address = 10.0.22.3/24
        DNS = 8.8.8.8,1.1.1.1
        PrivateKey = 2MhG2tct2ZHDkq1EA3fyUkZhlmW/9

[Peer]
        AllowedIPs = 0.0.0.0/0
        PersistentKeepalive = 25
        Endpoint = 77.87.125.200:51844
        PublicKey = 1qCAcz+BFDPHZ3KBaRYyp2SrOge7y9
```

IKEv2 configuration

DOWNLOAD CERTIFICATE

DOWNLOAD Profile

Server:	dev.softkeel.com
Username:	1-4852-111
Password:	xcqsuEEXA59V

Overview
Information
Add VPN account
Port Forwarding

Actions
Request Cancellation

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Port Forwarding

From 77.87.125.200: Enter port tcp

To 1-4852-111 (10.0.22.3) Enter port

+ Add port forwarding

Public IP:PORT	To IP:PORT	
77.87.125.200:1 tcp	10.0.22.3:2 (1-4852-111)	Delete
77.87.125.200:50 udp	10.0.22.3:66 (1-4852-111)	Delete
77.87.125.200:56 udp	10.0.22.3:77 (1-4852-111)	Delete
77.87.125.200:60 udp	10.0.22.3:66 (1-4852-111)	Delete
77.87.125.200:78 tcp	10.0.22.3:99 (1-4852-111)	Delete

Changelog

WireGuard Business-VPN module **WHMCS**

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v2.0 Released 23-09-2024

> **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 +

---

v1.5 Released 07-04-2024

1. Added "endpoint configuration option" to service configuration

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v1.4.5 Released 11-10-2023

1. Supported WHMCS v8.8.0
2. Translations added/updated (**Arabic, Azerbaijani, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, French, German, Hebrew, Hungarian, Italian, Macedonian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish, Ukrainian**)

---

v1.4 Released 05-06-2023

1. Added the ability to change the MTU of the WireGuard interface
2. Added the ability to set AllowedIPs on the WireGuard interface

Requires PUQVPNCP 1.6.1+

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v1.3.1 Released 14-03-2023

1. Fixed bug with urls in templates. The bug occurred in the case when WHMCS is not installed in the root folder of the site.

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v1.3 Released 02-03-2023

1. Added port forwarding functionality
2. Design changes, icons added

---

v1.2.1 Released 20-02-2023

1. Support for php 7.4 has been restored
2. Fixed bugs in templates
3. Added login button
4. Adding icons in templates

---

v1.2 Released 07-01-2023

1. Support WHMCS V8.6
2. Support IonCube PHP Loader v12
3. Support for PHP 8.1
4. Support IKEv2

---

v1.0 Released 25-11-2022

First version

Installation and configuration guide

Installation and configuration guide

WHMCS setup(install/update)

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

PHP 8.1

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

PHP 7.4

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-WireGuard-Business-VPN/php74/PUQ_WHMCS-WireGuard-Business-VPN-latest.zip
```

> All versions are available: https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-WireGuard-Business-VPN/

2. Unzip the archive with the module.

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

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

PUQVPNCP installation and configuration

WireGuard Business-VPN module **WHMCS**

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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/

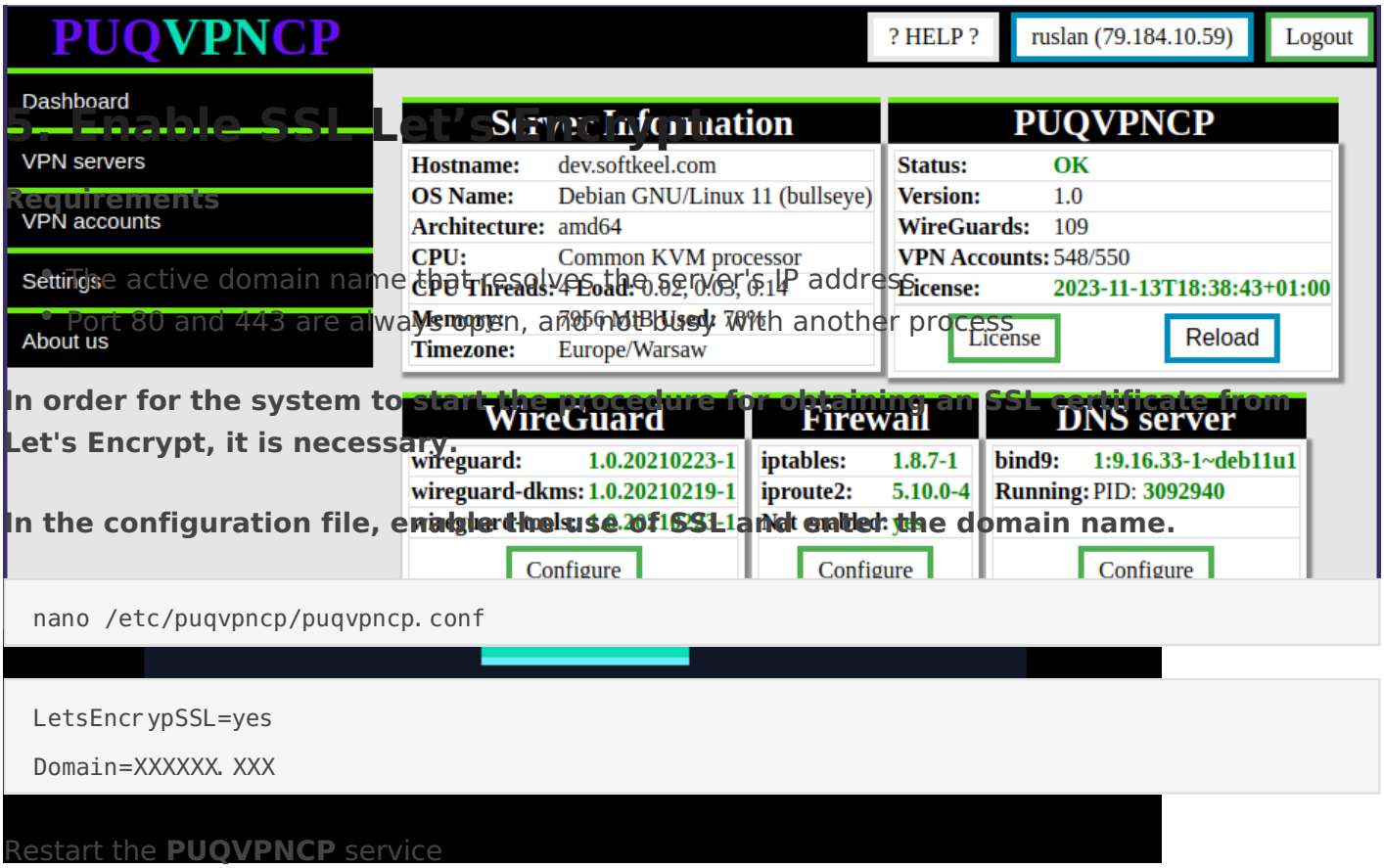
3. Install the puqvpncp package

```
wget https://download.puqcloud.com/cp/puqvpncp/puqvpncp_1.6.1_amd64.deb
dpkg -i puqvpncp_1.6.1_amd64.deb
```

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

browser.

http://SERVER_IP:8098
Username: admin
Password: admin



5. Enable SSL Let's Encrypt

Requirements

- The active domain name that resolves the server's IP address.
- Port 80 and 443 are always open, and not busy with another process

In order for the system to start the procedure for obtaining an SSL certificate from Let's Encrypt, it is necessary.

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

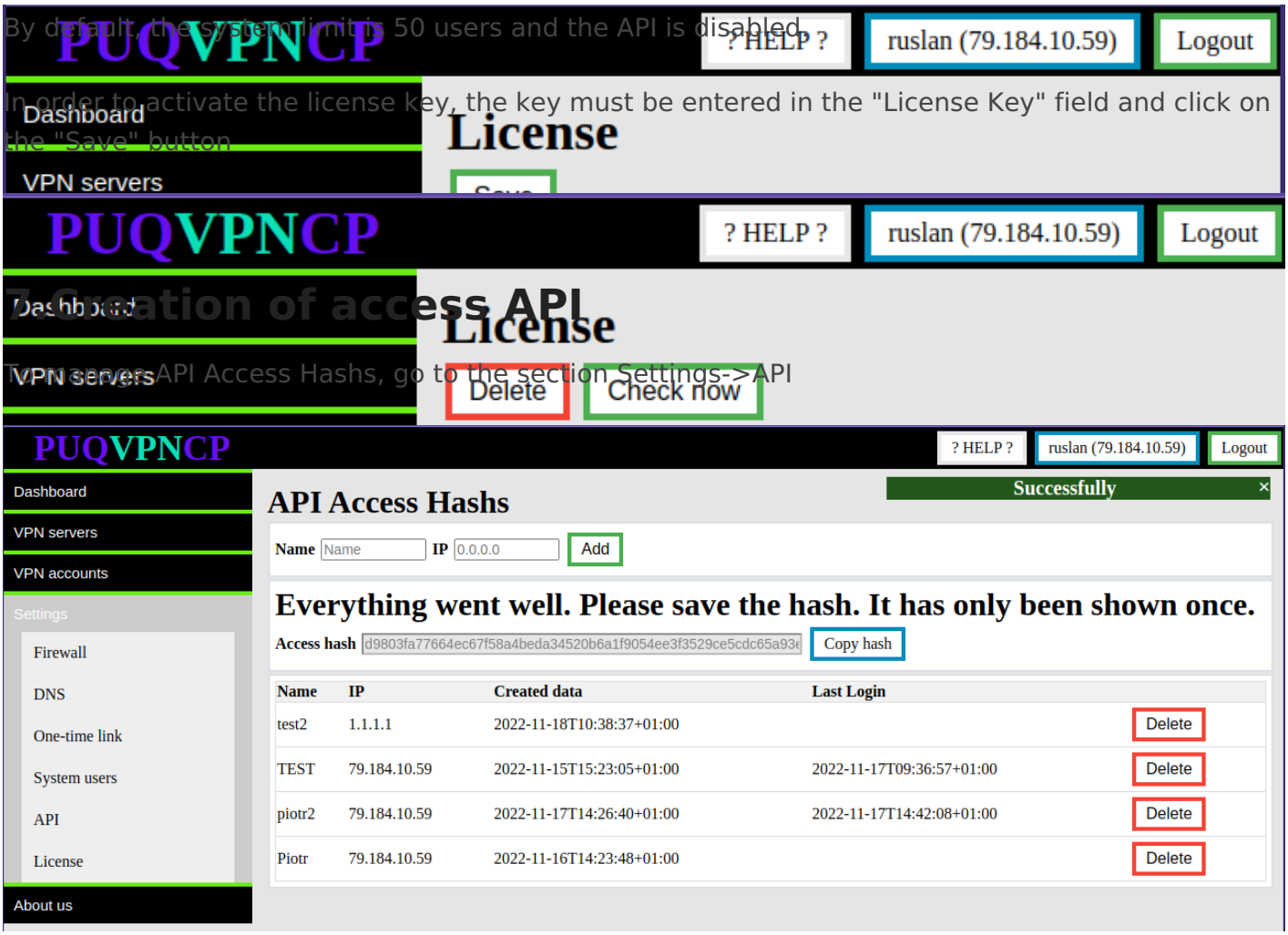
```
service puqvpncp restart
```

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**



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.

Add server (PUQVPNCP) in WHMCS

WireGuard Business-VPN module **WHMCS**

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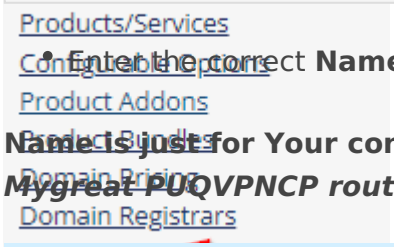
Add a new server to the system WHMCS.

Login to Your WHMCS panel and create new server in WHMCS (*System Settings->Products/Services->Servers*)

```
System Settings->Servers->Add New Server
```

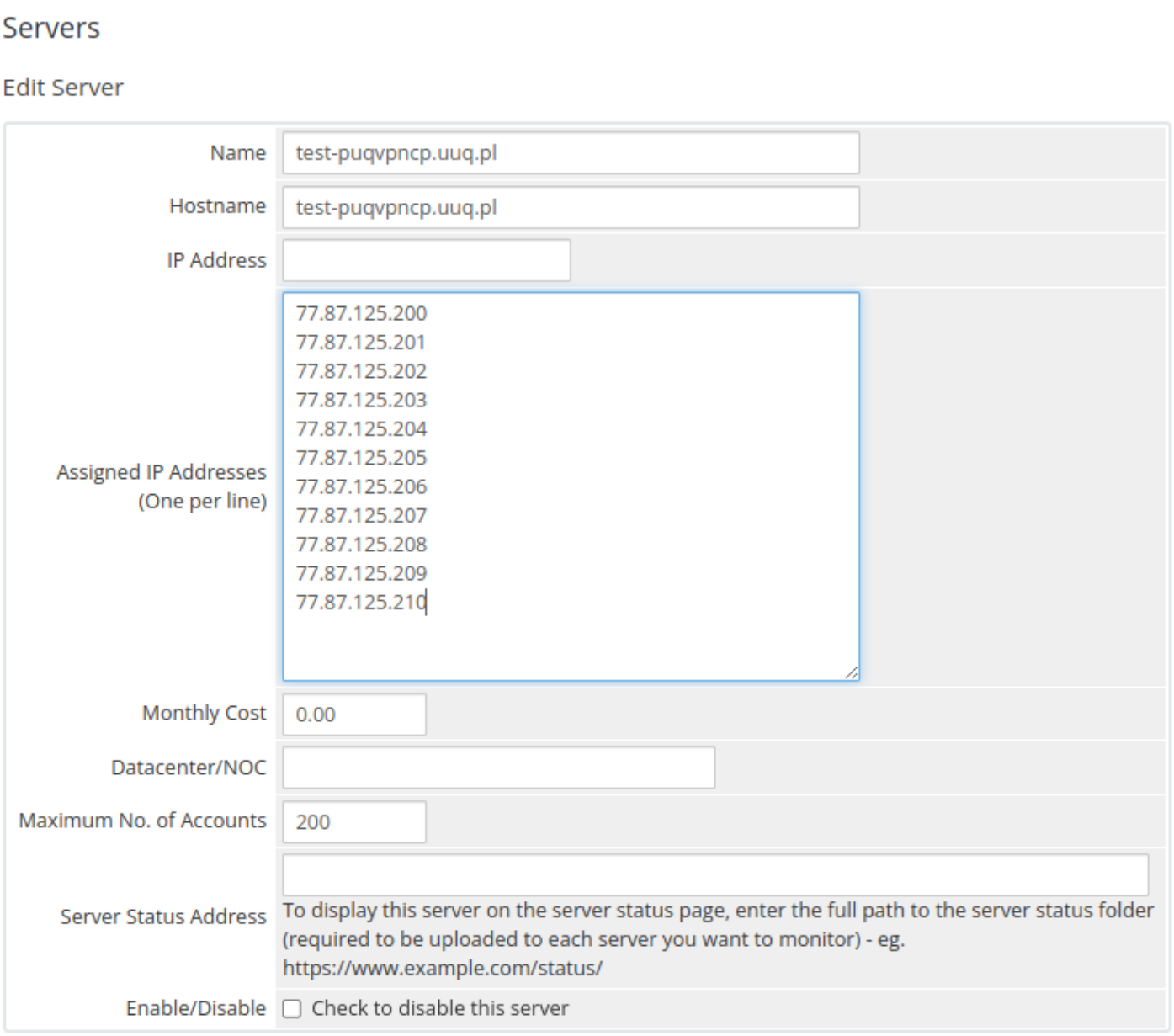


- Enter the correct **Name** and **Hostname**

Name is just for Your convenience and You can put there anything You like ie: ***Mygreat PUQVPNCP 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 PUQVPNCP in DNS server for Your domain.

- In the **"Assigned IP Addresses field"**, enter a list of IP addresses that will be issued to users.



Enter the correct data in the Access Hash field

- In the **Server Details** section, select the "**PUQ WireGuard Business-VPN**" module and enter the correct API Access Hash.
- To check, click the **"Test connection"** button

Server Details

Module	PUQ WireGuard Business-VPN <kbd>Test Connection</kbd> ✔ Connection successful. Some values have been auto-filled.
Username	
Password	
Access Hash	77f3f27245dfe2e27791295846bee745b8217741e8f0363b6c027d06a236bdbeec04651fcadccfd2
Secure	☑ Check to use SSL Mode for Connections
Port	443 ☐ Override with Custom Port

Product Configuration

WireGuard Business-VPN module **WHMCS**

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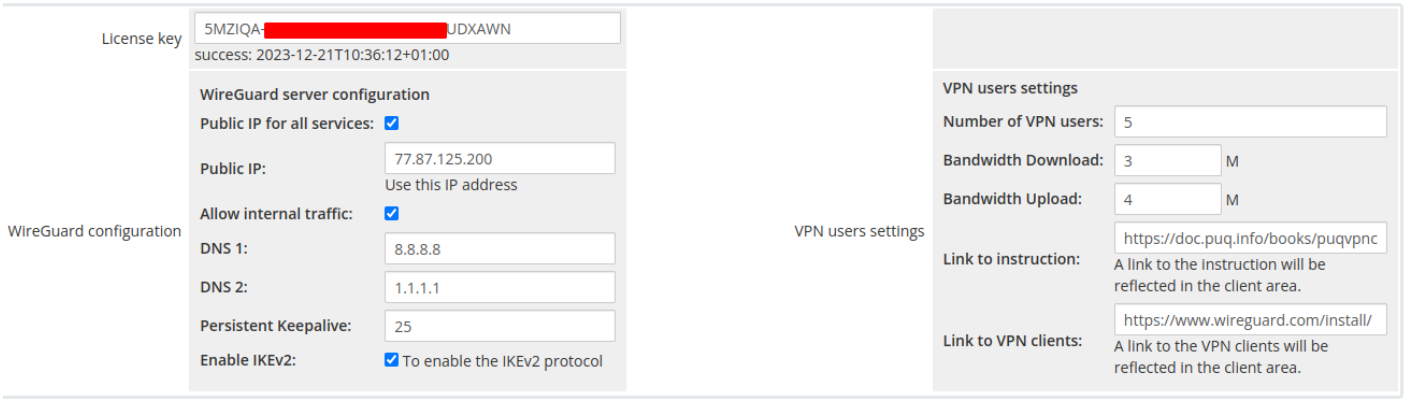
Add new product to WHMCS

```
System Settings->Products/Services->Create a New Product
```

In the **Module settings** section, select the **"PUQ WireGuard Business-VPN"** module



- **License key:** A pre-purchased license key for the **"PUQ WireGuard Business-VPN"** module. For the module to work correctly, the key must be active

WireGuard configuration

- **Public IP for all services -** If you want to assign one public IP address to all services (IP must be configured on the **PUQVPNCP** server)
- **Public IP -** If you want to assign one public IP address to all services (IP must be configured on the **PUQVPNCP** server)
- **Allow internal traffic-** If you want to enable traffic exchange between VPN clients **(package change)**
- **DNS1, DNS2 -** DNS servers if they differ from the configuration in the **PUQVPNCP** panel **(package change)**

VPN users settings

- **Number of VPN users -** Number of vpn accounts per service **(package change)**
- **Bandwidth Download** - Bandwidth Download of VPN accounts **(package change)**
- **Bandwidth Upload-** BandwidthUpload of VPN accounts **(package change)**
- **Link to instruction-** If you have prepared instructions for your customers on how to use the service, then a link to the instructions is provided here (If filled, it will be shown in the client area)
- **Link to VPN clients-** Link to download the VPN client. For example https://www.wireguard.com/install/ (If filled, it will be shown in the client area)
- **Persistent Keepalive-** sets the Keepalive parameter in the WireGuard server client configuration **(package change)**
- **Enable IKEv2-** Enable IKEv2 protocol support **(package change)**

Client Area

Home screen

WireGuard Business-VPN module **WHMCS**

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Basic information on client panel page

Dedicated IP: The public IP address that is reserved for the service and through which all users of the VPN service will be represented on the Internet.

Private internal network: Private subnet whose IP addresses are available to the client to create VPN accounts. When adding a new VPN account, it will be assigned an IP address from this internal pool of addresses.

VPN Protocols: VPN protocols that are available

Number of VPN accounts: Number of used and available VPN client accounts from the pool available based on the defined package.

Bandwidtht download/upload: The bandwidth rate that will be available on each VPN client account

Links to **instructions** and a link to **download the VPN client** (these links must be set when configuring the product)

Function buttons for service management.

- **Add VPN account:** To create a new VPN account

List of VPN accounts with technical/dynamic data and also buttons **Management**

Overview
Information
Add VPN account
Port Forwarding

Actions
Request Cancellation

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WireGuard Business-VPN 10

Business-VPN

ACTIVE

Request Cancellation

Registration Date
Saturday, February 4th, 2023

Recurring Amount
2.00$

Billing Cycle
Monthly

Next Due Date
Tuesday, April 4th, 2023

Payment Method
Bank Transfer

Manage

Network configuration

Dedicated IP:	77.87.125.200
Private internal network:	10.0.22.1/24
VPN Protocols:	WireGuard, IKEv2
Number of VPN accounts:	4/5
Bandwidtht download/upload:	100/100 M

User manual

Download VPN client

Add VPN account | Port Forwarding

✔	**1-4852-111** (10.0.22.3)	WireGuard online: not	IKEv2 online: not	Management
✔	**1-4852-45** (10.0.22.4)	WireGuard online: not	IKEv2 online: not	Management
✔	**1-4852-77777** (10.0.22.17)	WireGuard online: not	IKEv2 online: not	Management
✔	**1-4852-8** (10.0.22.254)	WireGuard online: not	IKEv2 online: not	Management

Add VPN account

WireGuard Business-VPN module **WHMCS**

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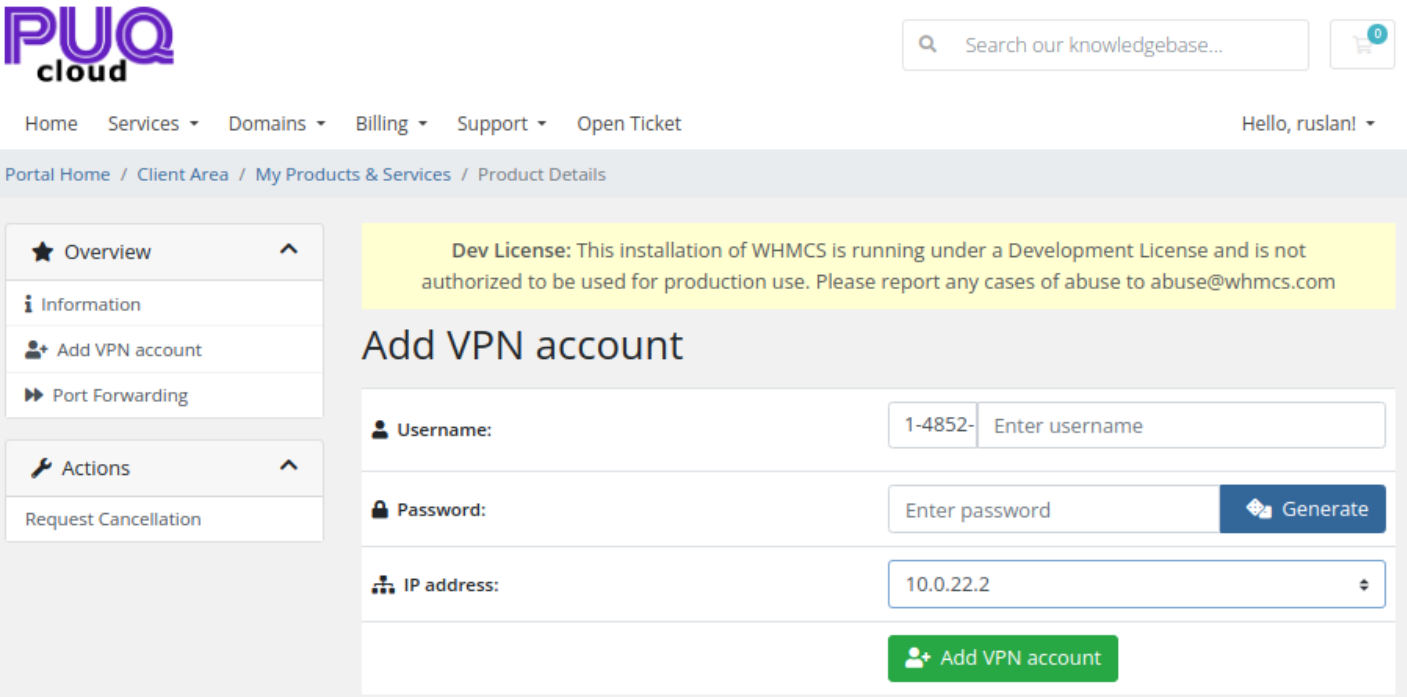
This is how the page for adding a new VPN account looks like.

> Each VPN account has a unique client ID, the ID is generated according to the scheme <user_id>-<service_id>-Manually entered value. <user_id>-<service_id> are generated automatically by module. You can modify manually the last part.



To create a new account, the client must enter the following.

Username, Select an available IP address from the dropdown list. Then click the **Add VPN account** button.

Client Area

Management VPN account

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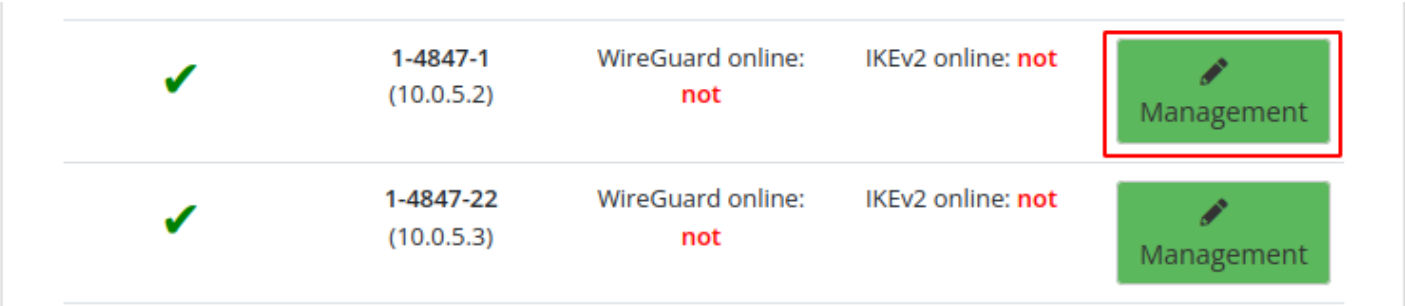
To manage/change your VPN account, click on the "Management" button on the selected account.



On the account management page you have the option.

- Change IP address
- Change password for IKEv2 protocol
- Deactivate account
- Delete account
- Download the configuration as a text file or as a QR code WireGuard protocol
- Download CA certificate IKEv2 protocol
- Download configuration profile for mobile devices IKEv2 protocol
- Generate a one-time link with connection parameters. For example, to transfer the connection settings to the end user

Management VPN account

Delete | Save

Username: 1-4847-2

Password: 3xEa96vyQEym Generate

IP address: 10.0.5.2

Enabled:

Download VPN client

Create one-time link

WireGuard configuration

DOWNLOAD CONFIG

```
[Interface]
        Address = 10.0.5.2/24
        DNS = 8.8.8.8,1.1.1.1
        PrivateKey = KKapSP4lCIeZImJgrJuVmtOu

[Peer]
        AllowedIPs = 0.0.0.0/0
        PersistentKeepalive = 25
```

IKEv2 configuration

DOWNLOAD CERTIFICATE

DOWNLOAD Profile

Server:	dev.softkeel.com
Username:	1-4847-2
Password:	3xEa96vyQEym

Port forwarding

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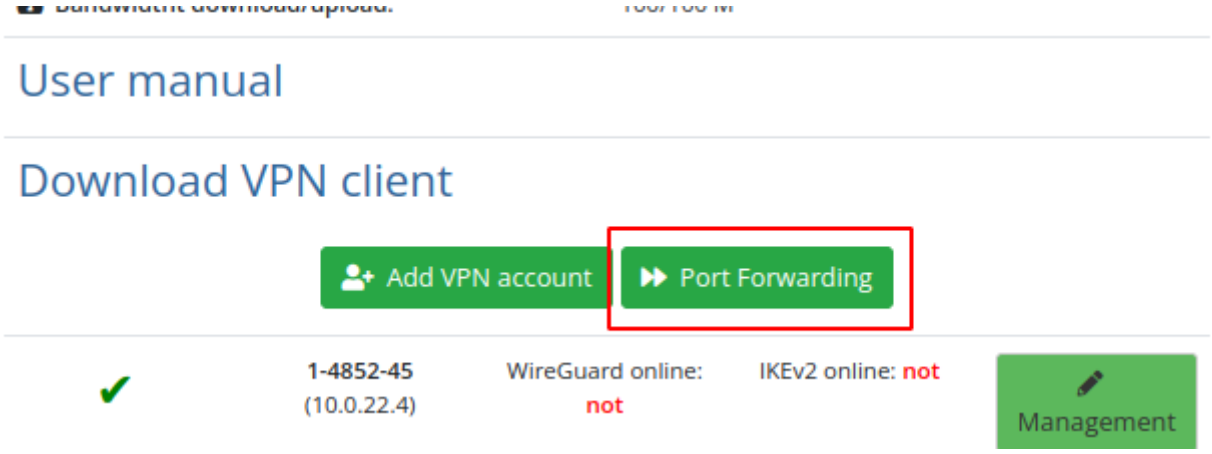
To manage port forwarding, click the Port forwarding button.
In the page that opens, it is possible to add or delete rules to port forwarding.



Overview
Information
Add VPN account
Port Forwarding

Actions
Request Cancellation

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Port Forwarding

From 77.87.125.200: Enter port tcp

To 1-4852-111 (10.0.22.3) Enter port

+ Add port forwarding

Public IP:PORT	To IP:PORT	
77.87.125.200:1 tcp	10.0.22.3:2 (1-4852-111)	Delete
77.87.125.200:50 udp	10.0.22.3:66 (1-4852-111)	Delete
77.87.125.200:56 udp	10.0.22.3:77 (1-4852-111)	Delete
77.87.125.200:60 udp	10.0.22.3:66 (1-4852-111)	Delete
77.87.125.200:78 tcp	10.0.22.3:99 (1-4852-111)	Delete

Admin Area

Product Home Screen

WireGuard Business-VPN module **WHMCS**

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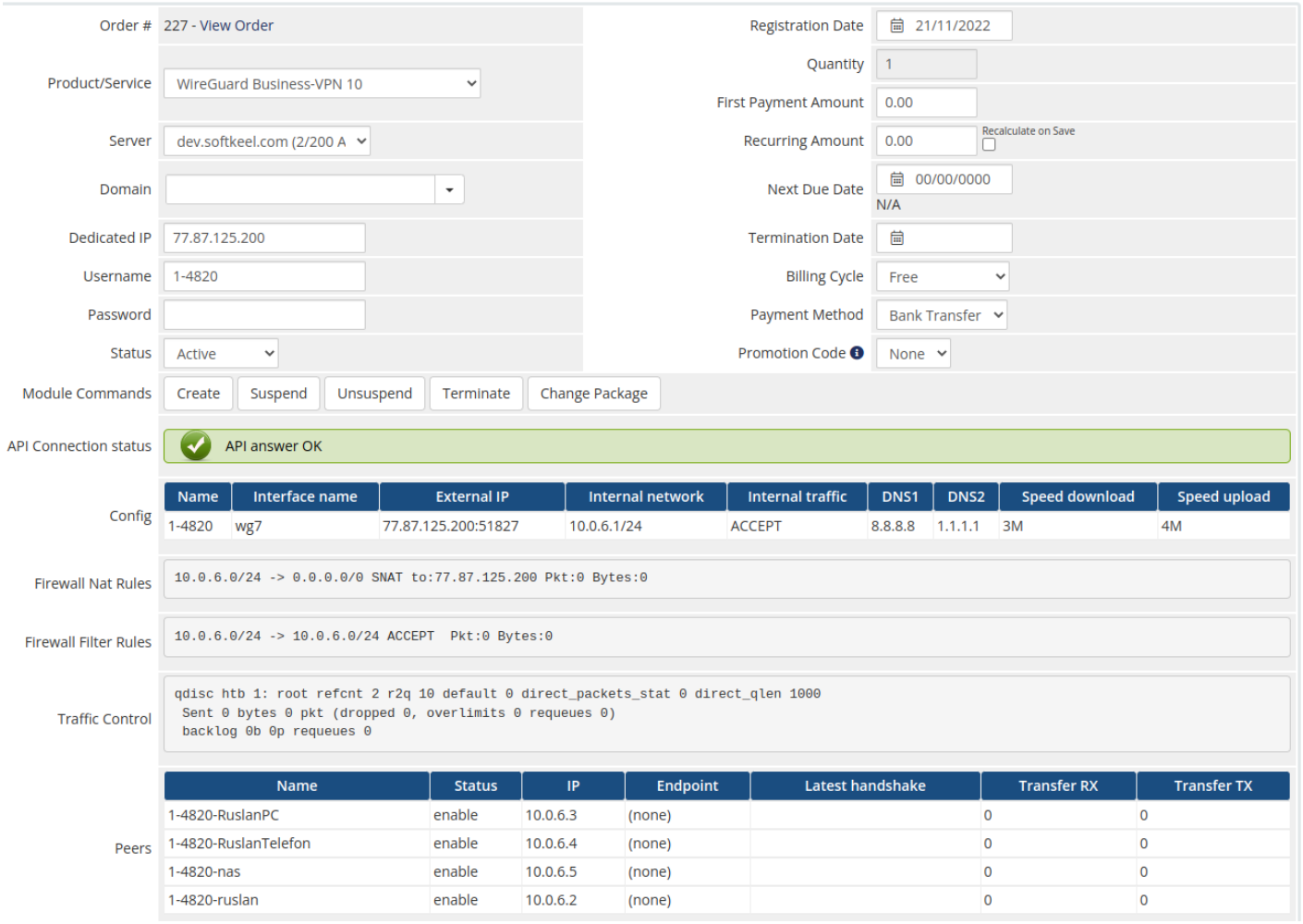
The main screen of the product contains the following items.

- WireGuard interface configuration information
- Firewall Nat Rules
- Firewall Filter Rules
- Traffic Control Rules
- List of VPN client accounts



Order # 227 - View Order
Registration Date 21/11/2022
Product/Service WireGuard Business-VPN 10
Quantity 1
First Payment Amount 0.00
Server dev.softkeel.com (2/200 A
Recurring Amount 0.00
Recalculate on Save
Domain
Next Due Date 00/00/0000
N/A
Dedicated IP 77.87.125.200
Termination Date
Username 1-4820
Billing Cycle Free
Password
Payment Method Bank Transfer
Status Active
Promotion Code None
Module Commands Create Suspend Unsuspend Terminate Change Package
API Connection status API answer OK

Config

Name	Interface name	External IP	Internal network	Internal traffic	DNS1	DNS2	Speed download	Speed upload
1-4820	wg7	77.87.125.200:51827	10.0.6.1/24	ACCEPT	8.8.8.8	1.1.1.1	3M	4M

Firewall Nat Rules

```
10.0.6.0/24 -> 0.0.0.0/0 SNAT to:77.87.125.200 Pkt:0 Bytes:0
```

Firewall Filter Rules

```
10.0.6.0/24 -> 10.0.6.0/24 ACCEPT  Pkt:0 Bytes:0
```

Traffic Control

```
qdisc htb 1: root refcnt 2 r2q 10 default 0 direct_packets_stat 0 direct_qlen 1000
 Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requeues 0)
 backlog 0b 0p requeues 0
```

Peers

Name	Status	IP	Endpoint	Latest handshake	Transfer RX	Transfer TX
1-4820-RuslanPC	enable	10.0.6.3	(none)		0	0
1-4820-RuslanTelefon	enable	10.0.6.4	(none)		0	0
1-4820-nas	enable	10.0.6.5	(none)		0	0
1-4820-ruslan	enable	10.0.6.2	(none)		0	0