

PUQVPNCP installation and configuration

WireGuard Business-VPN module **WISECP**

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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 PUQVPNCNCP web interface. At the top, there is a navigation bar with the logo 'PUQVPNCNCP', a 'HELP' button, the user '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 displaying system details:

| | |
|---------------|--------------------------------|
| Hostname: | dev.softkeel.com |
| OS Name: | Debian GNU/Linux 11 (bullseye) |
| Architecture: | amd64 |
| CPU: | Common KVM processor |
| CPU Threads: | 4 |
| Load: | 0.02, 0.03, 0.14 |
| Memory: | 7856 MB Used: 70% |
| Timezone: | Europe/Warsaw |
- PUQVPNCNCP:** A table showing service status and configuration:

| | |
|---------------|---------------------------|
| 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 visible.
- WireGuard:** A table showing configuration details:

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

A 'Configure' button is present.
- Firewall:** A table showing configuration details:

| | |
|-----------|----------|
| iptables: | 1.8.7-1 |
| iproute2: | 5.10.0-4 |

A 'Configure' button is present.
- DNS server:** A table showing configuration details:

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

A 'Configure' button is present.

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
```

```
LetsEncryptSSL=yes
Domain=XXXXXX.XXX
```

Restart the **PUQVPNCNCP** 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:

- License Configuration:** A form titled "License" with a "Save" button highlighted in green. A message above the form states: "By default, the system limit is 50 users and the API is disabled. In order to activate the license key, the key must be entered in the 'License Key' field and click on the 'Save' button".
- API Access Hashes:** A section titled "API Access Hashes" with a "Successfully" notification. It includes a form to add a new hash with fields for "Name" and "IP" (0.0.0.0) and an "Add" button. A message says: "Everything went well. Please save the hash. It has only been shown once." Below this is a table of existing hashes.
- Navigation:** A sidebar on the left contains menu items: Dashboard, VPN servers, VPN accounts, Settings (with sub-items: Firewall, DNS, One-time link, System users, API, License), and About us. The "License" and "API" items are highlighted.
- Buttons:** "Delete" buttons are highlighted in red for each row in the API Access Hashes table. A "Check now" button is also highlighted in green.

| Name | IP | Created data | Last Login | |
|--------|--------------|---------------------------|---------------------------|--------|
| 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

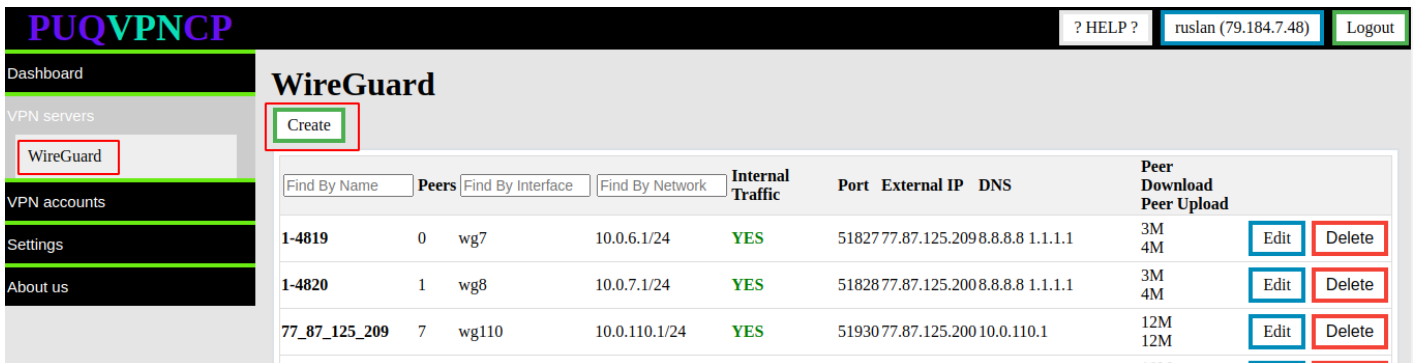
Attention.

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 Hashes 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**



Dashboard

VPN servers

WireGuard

VPN accounts

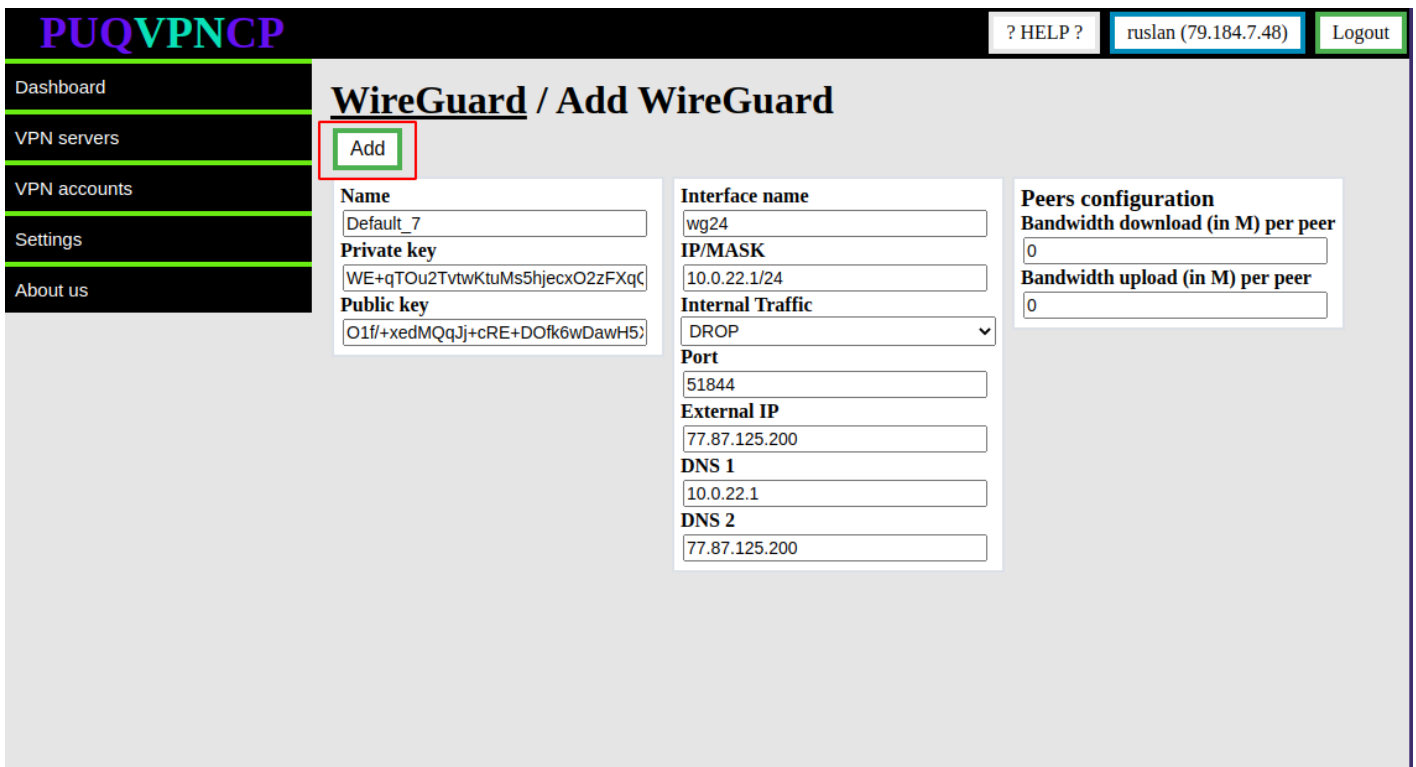
Settings

About us

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 |



Dashboard

VPN servers

VPN accounts

Settings

About us

WireGuard / Add WireGuard

Add

Name
Default_7

Private key
WE+qTOu2TvtwKtuMs5hjecxO2zFXqC

Public key
O1f/+xedMQqJj+cRE+DOfk6wDawH5}

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

Revision #1

Created 25 November 2023 14:45:38 by Ruslan

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