

# Installation and Configuration Guide

Step-by-step instructions for installing, configuring and setting up the PUQVPNCP WHMCS module — panel preparation, WHMCS integration, server configuration, location routing and product configuration.

- [Setup guide — PUQVPNCP panel](#)
- [Add server \(PUQVPNCP panel\)](#)
- [Product configuration](#)

# Setup guide — PUQVPNCP panel

## PUQVPNCP module **WHMCS**

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Before you can connect WHMCS, you need a running PUQVPNCP panel, an **API token** that WHMCS will use for every operation, and at least one **VPN network** with the protocols you want to expose enabled. This page walks through both.

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## 1. Panel reachability

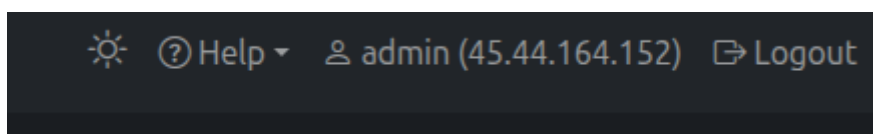
- The panel must be reachable from the WHMCS server over the network.
  - HTTPS is strongly recommended. If you use a self-signed certificate, remember that SSL verification is enabled when the **Secure** checkbox is ticked on the WHMCS server record — use a publicly trusted certificate, or place the panel behind a reverse-proxy with one.
- 

## 2. Issue an API token

The module authenticates to the panel with a **Bearer token** issued from the admin's profile page.

### Step 1 — Open Profile

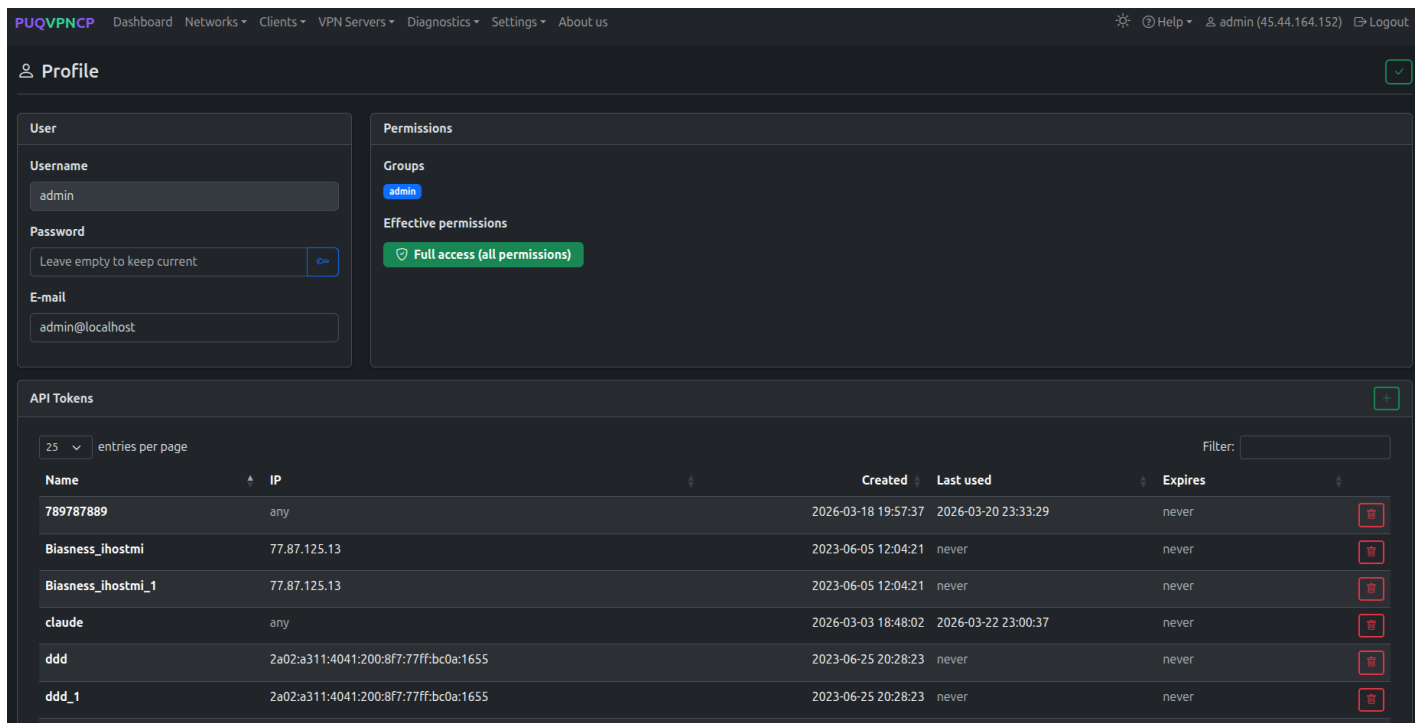
Click your username in the top-right corner of the panel and select **Profile**.



26-puqvpncp-profile-menu.png

# Step 2 — Open the API Tokens section

Scroll down to the **API Tokens** card. Click the green + button on the right to create a new token.



The screenshot shows the WHMCS user profile page for a user named 'admin'. The 'API Tokens' section is expanded, displaying a table of existing tokens. The table has columns for Name, IP, Created, Last used, and Expires. There are six tokens listed, including '789787889', 'Biasness\_ihostmi', 'Biasness\_ihostmi\_1', 'claudé', 'ddd', and 'ddd\_1'. A green '+ button is visible in the top right corner of the API Tokens section.

Name	IP	Created	Last used	Expires
789787889	any	2026-03-18 19:57:37	2026-03-20 23:33:29	never
Biasness_ihostmi	77.87.125.13	2023-06-05 12:04:21	never	never
Biasness_ihostmi_1	77.87.125.13	2023-06-05 12:04:21	never	never
claudé	any	2026-03-03 18:48:02	2026-03-22 23:00:37	never
ddd	2a02:a311:4041:200:8f7:77ff:bc0a:1655	2023-06-25 20:28:23	never	never
ddd_1	2a02:a311:4041:200:8f7:77ff:bc0a:1655	2023-06-25 20:28:23	never	never

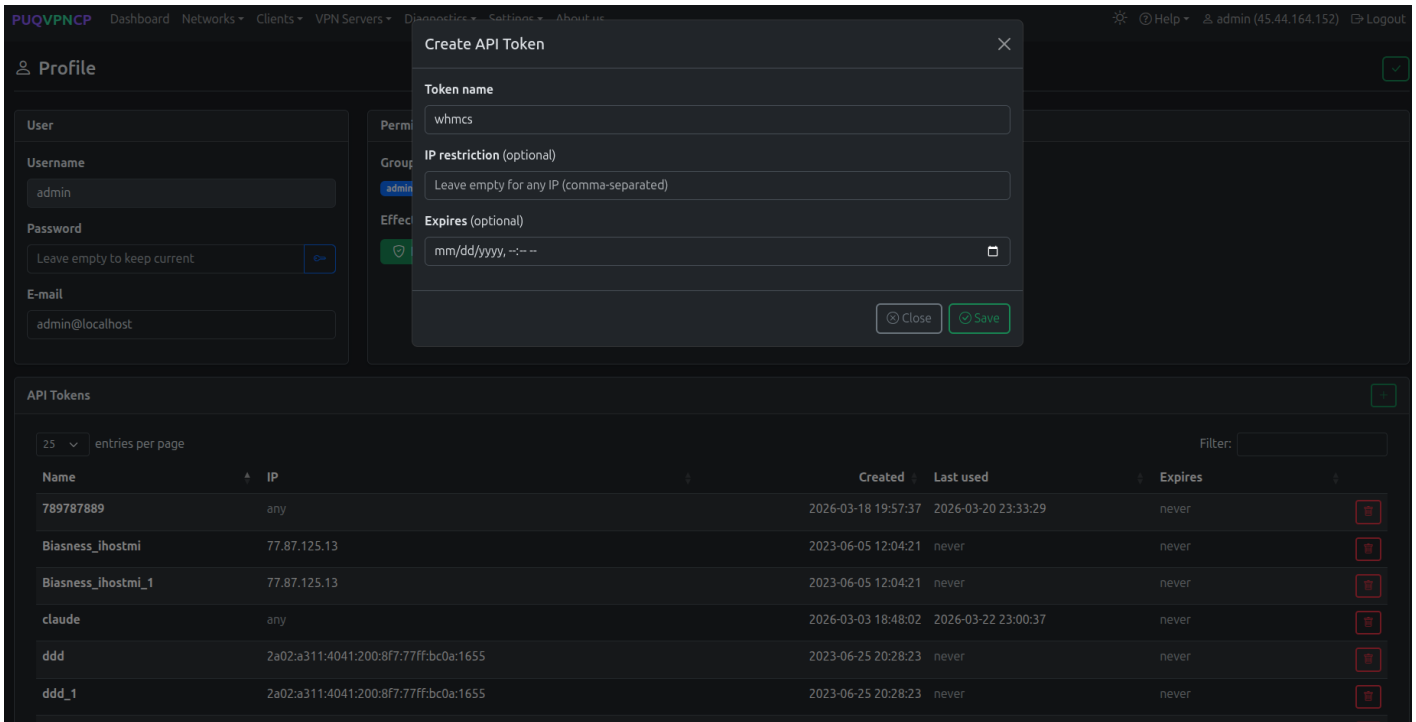
27-puqvpncp-profile-tokens.png

# Step 3 — Create the token

Fill in the modal:

- **Token name** — a label that identifies the consumer, e.g. `whmcs`.
- **IP restriction** (*optional*) — a comma-separated list of IPs allowed to use this token. Leave empty to accept the token from any IP, or set it to your WHMCS server's IP for tighter security.
- **Expires** (*optional*) — an expiration date. Leave empty for a non-expiring token.

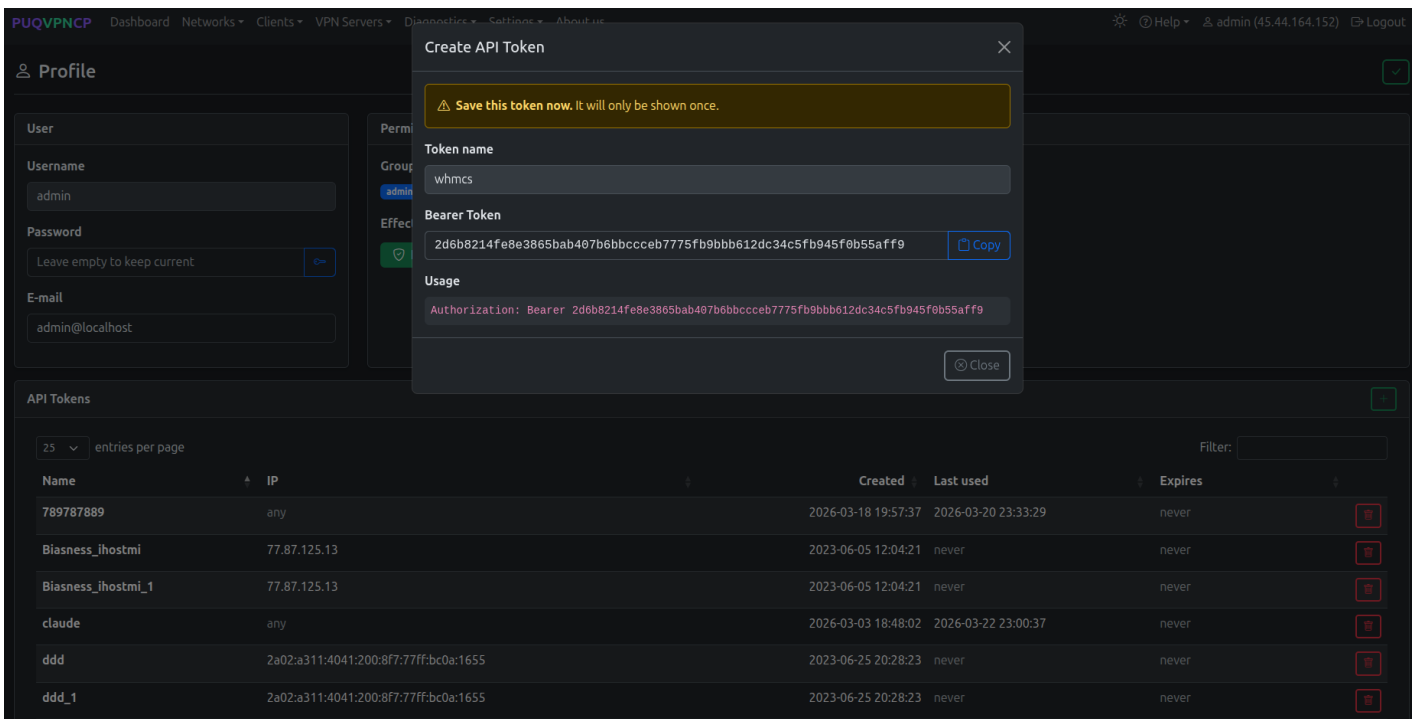
Click **Save**.



28-puqvpncp-token-create.png

## Step 4 — Copy the Bearer token

The next dialog shows the **Bearer Token**. Click **Copy** and store it somewhere safe — **the token is shown only once and cannot be retrieved later**. If you lose it, delete the token and generate a new one.



29-puqvpncp-token-bearer.png

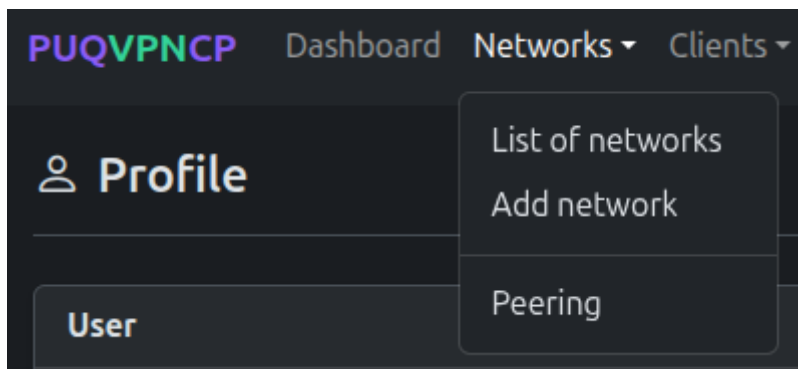
“ The token grants the user's **effective permissions** — the `admin` group used in the screenshot has full access. For tighter control, create a dedicated user/permission group on the panel and issue a token for that user instead.

You will paste this token into the **Password** field of the WHMCS server record — see [Add server](#).

## 3. Create a VPN network

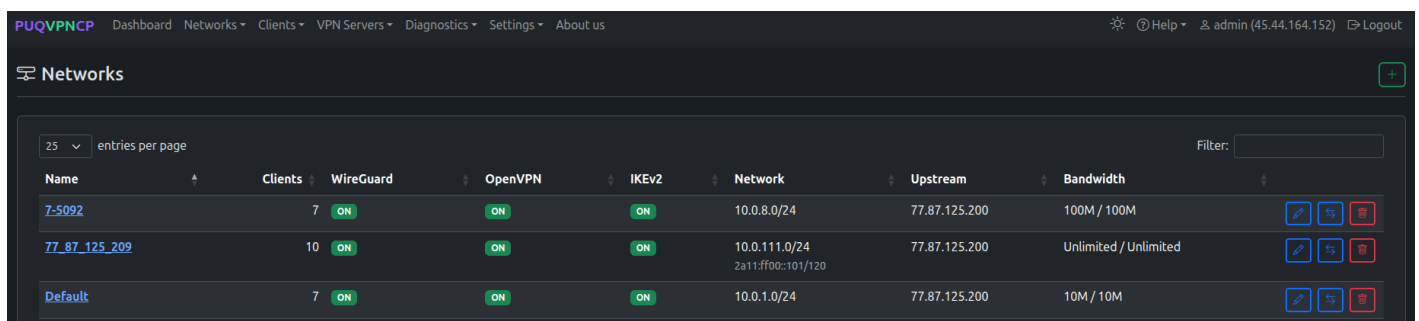
The module needs at least one VPN network on the panel. On the WHMCS product configuration page, every available network is listed as a tickable `server → network` pair.

### Step 1 — Open the Networks list



30-puqvpncp-networks-menu.png

The list shows every existing network with the status of WireGuard / OpenVPN / IKEv2, the IPv4 subnet, the upstream interface and the bandwidth caps.

A screenshot of the PUQVPNCPC 'Networks' page. It shows a table with columns for Name, Clients, WireGuard, OpenVPN, IKEv2, Network, Upstream, and Bandwidth. There are three rows of network data. The top row is '7-5092' with 7 clients, WireGuard ON, OpenVPN ON, IKEv2 ON, Network 10.0.8.0/24, Upstream 77.87.125.200, and Bandwidth 100M / 100M. The middle row is '77.87.125.209' with 10 clients, WireGuard ON, OpenVPN ON, IKEv2 ON, Network 10.0.111.0/24 (2a11:ff00::101/120), Upstream 77.87.125.200, and Bandwidth Unlimited / Unlimited. The bottom row is 'Default' with 7 clients, WireGuard ON, OpenVPN ON, IKEv2 ON, Network 10.0.1.0/24, Upstream 77.87.125.200, and Bandwidth 10M / 10M. Each row has edit, add, and delete icons.

31-puqvpncp-networks-list.png

# Step 2 — Add a network

Click the green + button in the top-right corner of the Networks page. Fill the **Create** form:

- **Name** — internal identifier of the network (used in the WHMCS product configuration).
- **Description** (*optional*) — human-readable note.
- **Subnet (IPv4 CIDR)** — VPN subnet that will be assigned to clients (e.g. `10.0.6.0/24`).
- **WireGuard IP / OpenVPN IP / IKEv2 IP** — gateway addresses for each protocol inside the subnet.
- **Upstream** — the host network interface used as the egress for this VPN network.
- **VPN Domain** (*optional*) — overrides the global VPN Domain in all client configs for this network.
- **DNS 1 / DNS 2** — DNS servers pushed to clients.
- **Bandwidth Download / Upload** — network-wide caps in Mbit/s (`0` = unlimited).
- **Disable NAT** — leave unchecked unless you route the VPN subnet upstream yourself.

Click the green ✓ in the top-right to save. Protocols (WireGuard / OpenVPN / IKEv2) are configured **after** the network is created.

Networks / Create

Network

Name  
Default\_4

Description

Subnet (IPv4 CIDR)  
10.0.6.0/24

WireGuard IP  
10.0.6.1

OpenVPN IP  
10.0.6.254

IKEv2 IP  
10.0.6.253

Upstream  
77.87.125.200 (ens18) ★

VPN Domain  
vpn.example.com  
Overrides global VPN Domain for this network. Used in all protocol client configs.

DNS 1  
10.0.6.1

DNS 2  
77.87.125.200

Bandwidth Download (Mbit, 0=unlimited)  
0

Bandwidth Upload (Mbit, 0=unlimited)  
0

Disable NAT

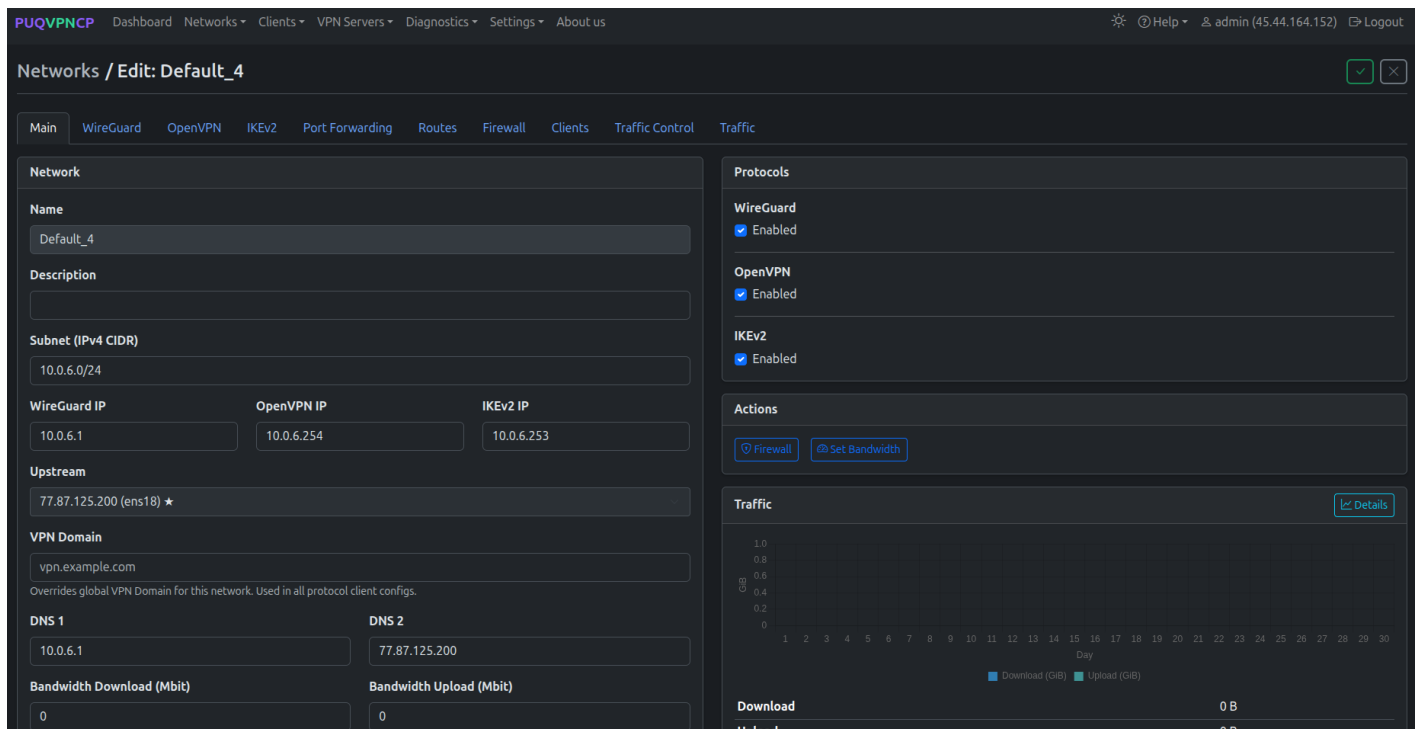
Protocols (WireGuard, OpenVPN, IKEv2) can be configured after creating the network.

32-puqvpncp-network-create.png

# Step 3 — Enable protocols on the network

After saving, you land on the network's **Edit** page with a row of tabs (Main / WireGuard / OpenVPN/ IKEv2 / Port Forwarding / Routes / Firewall / Clients / Traffic Control / Traffic) and a **Protocols** card on the right.

Tick **Enabled** for every protocol you want to offer to customers via WHMCS. The WHMCS module reads this state from `GET /api/v1/network/{name}` — disabled protocols are hidden in the client area and shown greyed-out (with a tooltip) in the admin service tab.



33-puqvpncp-network-edit-protocols.png

Open each protocol-specific tab (**WireGuard**, **OpenVPN**, **IKEv2**) to fine-tune ports, ciphers, MTU and other parameters as needed. Defaults are sensible for most deployments.

## What's next

- Add the panel to WHMCS — see [Add server](#).
- Configure a WHMCS product backed by this panel — see [Product configuration](#).

# Add server (PUQVPNCP panel)

PUQVPNCP module **WHMCS**

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## Add a PUQVPNCP panel to WHMCS

Navigate to **System Settings** → **Servers** → **Add New Server**.

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### Step 1 — General settings

- **Name** — a descriptive label (e.g. `VPN Frankfurt`).
- **Hostname** — the panel's fully-qualified hostname (e.g. `vpn-fra.example.com`).
- **IP** — optional; used as fallback if hostname is empty.
- **Port** — leave empty for the default `80`/`443`, or enter a custom port.
- **Secure** — check when the panel is served over HTTPS (strongly recommended). SSL verification is enabled when this is checked.

Name	<input type="text" value="dev.puqvpncp.com"/>
Hostname	<input type="text" value="dev.puqvpncp.com"/>
IP Address	<input type="text"/>
Assigned IP Addresses (One per line)	<div style="border: 1px solid #ccc; height: 40px;"></div>
Monthly Cost	<input type="text" value="0.00"/>
Datacenter/NOC	<input type="text"/>
Maximum No. of Accounts	<input type="text" value="200"/>
Server Status Address	<input type="text"/>
Enable/Disable	<input type="checkbox"/> Check to disable this server

To display this server on the server status page, enter the full path to the server status folder (required to be uploaded to each server you want to monitor) - eg. https://www.example.com/status/

04-add-server-1.png

## Step 2 — Module settings

1. Server Details section, **Type** dropdown: select **puqVPNcp**.
2. Leave **Username** empty (not used).
3. Paste the panel's **API token** into the **Password** field — this is what the module sends as `Authorization: Bearer <token>` for every API call.
4. Click **Test connection** — it calls `/api/v1/system/status`, `/api/v1/license` and `/api/v1/network` and returns OK on success.

Module	<input type="text" value="PUQ VPNcp"/> <span>Test Connection</span> <span>✓ Connection successful. Some values have been auto-filled.</span>
Username	<input type="text"/>
Password	<input type="password" value="....."/>
Access Hash	<div style="border: 1px solid #ccc; height: 40px;"></div>
Secure	<input checked="" type="checkbox"/> Check to use SSL Mode for Connections
Port	<input type="text" value="443"/> <input type="checkbox"/> Override with Custom Port

Save Changes Cancel Changes

05-add-server-2.png

**Important:** The API token must have permissions to manage clients, query networks and read system status.

## Step 3 — Assign to a server group

For multi-server deployments, add the server to a WHMCS **server group**. Products bound to that

group will list networks from every reachable server in it on the **VPN Networks** tree of the product configuration page — pick which `server → network` pairs are allowed for that product.

# Product configuration

## PUQVPNCP module **WHMCS**

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## Create the product

1. Navigate to **System Settings** → **Products/Services** → **Products/Services** → **Create a New Product**.
2. Product Type: **Other**. Give it a name (e.g. `VPN – 100 Mbit/s`).
3. On the **Module Settings** tab, pick **PUQ VPNcp** as the module and assign a server (or a server group).

After saving, the module injects a **PUQ VPNcp settings** panel below the standard module fields. All settings are persisted as JSON in `configoption24` of the product record.

Products/Services

Edit Product

The screenshot shows the 'Edit Product' interface for the 'PUQ VPNcp' module. The 'Module Settings' tab is active, displaying various configuration options:

- Module Name:** PUQ VPNcp
- Server Group:** puqvpncp-pl
- License key:** XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX  
success: 2026-05-15T03:04:13+02:00
- Bandwidth:**
  - Download limit (Mbit/s):** 3  
Per-client download cap applied via PUQVPNCP. Use for unlimited.
  - Upload limit (Mbit/s):** 5  
Per-client upload cap. Use for unlimited.
- Client name:**
  - Client name rule:** vpn-{client\_id}-{service\_id}-{random\_letter\_4}  
VPN client name template using macros.
  - Base macros:**
    - {client\_id} - WHMCS client ID
    - {service\_id} - WHMCS service ID
  - Random macros:**
- VPN Networks:**
  - Tick which server → network pairs are allowed for this product. Order matters: the top-most pair is tried first; the first one that has a free IP *and* a free license slot is used. If nothing is ticked, the server WHMCS already assigned is used and the panel picks a network automatically.
  - Loaded 29 network(s) from 1 server(s) in group "puqvpncp-pl"
  - new-dev.puqvpncp.com (dev.puqvpncp.com) · license slots: 1853/5050
    - 7-5092
    - 77\_87\_125\_209
    - Default
    - Default\_1
    - Default\_2
    - Default\_3
    - TETS
    - loadtest\_net1 - Load test network 1
    - loadtest\_net10 - Load test network 10
    - loadtest\_net11 - Load test network 11
    - loadtest\_net12 - Load test network 12
    - loadtest\_net13 - Load test network 13

06-product-configuration.png

# License key

Paste your licence key into the **License key** field. The status row underneath shows the result of the most recent verification (`|success: <timestamp>` or an error). The module re-checks the licence on every product page render and caches the result for the validity period encoded in the licence response.

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# Bandwidth

**Bandwidth**

**Download limit (Mbit/s)**

Per-client download cap applied via PUQVPNCP. Use `0` for unlimited.

**Upload limit (Mbit/s)**

Per-client upload cap. Use `0` for unlimited.

*07-product-config-bandwidth.png*


- **Download limit (Mbit/s)** — per-client download cap. `|0|` = unlimited.
- **Upload limit (Mbit/s)** — per-client upload cap. `|0|` = unlimited.

The module applies these via `|PUT /api/v1/client/{name}|` right after creating the client. The `|POST /api/v1/client|` create call does not accept bandwidth fields — the limits are always pushed through the follow-up update.

If the bandwidth update fails, the freshly created client is **rolled back** with `|DELETE /api/v1/client/{name}|` so billing never starts charging for an uncapped VPN.

---

# Client name

 Client name

### Client name rule

```
vpn-{client_id}-{service_id}-{random_letter_4}
```

VPN client name template using macros.

#### Base macros:

`{client_id}` - WHMCS client ID

`{service_id}` - WHMCS service ID

#### Random macros:

`{random_digit_x}` - Random digits (x = length)

`{random_letter_x}` - Random letters a-z (x = length)

#### Date & time macros:

`{unixtime}`, `{year}`, `{month}`, `{day}`, `{hour}`, `{minute}`, `{second}`

Example: `vpn-{client_id}-{service_id}-{random_letter_4}`

08-product-config-client-name.png

- **Client name rule** — template used to generate the VPN client identifier. Default:

```
vpn-{client_id}-{service_id}-{random_letter_4}
```

Available macros:

### Base macros

- `{client_id}` — WHMCS client ID
- `{service_id}` — WHMCS service ID

### Random macros

- `{random_digit N}` — N random digits (e.g. `{random_digit 5}`)
- `{random_letter N}` — N random lowercase letters

### Date & time macros

- `{unixtime}`, `{year}`, `{month}`, `{day}`, `{hour}`, `{minute}`, `{second}`

If the generated name already exists in `tblhosting.username`, the module appends `-1`, `-2`, ... until it finds a free one.

# Client Area

Client Area

**Link to instruction**

Optional URL shown as *User manual* button in the client area.

09-product-config-client-area.png

- **Link to instruction** — optional URL shown as a **User manual** button at the top of the client-area home screen. Leave empty to hide the button.

# Welcome Email

Welcome Email

Send welcome email after account provisioning  
Sends a welcome email to the client with connection details, WireGuard config text and QR code.

**Email template**

WHMCS *Product/Service* template used for the welcome email. Leave on **Module default** to use **PUQ VPNcp - Welcome**.

**Default template**  
PUQ VPNcp - Welcome EXISTS

Create if missing adds the template only if absent (keeps your edits). Reset to default overwrites its subject & body back to the shipped default. Edit the body any time in *Setup* → *Email Templates* → *Product/Services*.

34-product-config-welcome-email.png


Send the customer everything they need to connect the moment their service goes live — automatically.

- **Send welcome email after account provisioning** — when ticked, the module emails the client right after the VPN account is created. The message includes the connection details, the full WireGuard config text and an inline QR code, plus a direct link to manage the service.
- **Email template** — which WHMCS *Product/Service* email template to send. Leave it on **Module default** to use the bundled **PUQ VPNcp - Welcome** template, or pick any of your own templates.
- **Default template** — a one-click manager for the bundled template:
  - **Create if missing** — adds the **PUQ VPNcp - Welcome** template only if it does not exist yet (your edits are never overwritten). The badge shows **EXISTS** once it is in place.
  - **Reset to default** — restores the shipped subject and body (use it if you edited the template and want to start over).

You can edit the template body any time in **Setup → Email Templates → Product/Services**. It supports these merge variables: `|{$puq_client_name}|`, `|{$puq_vpn_ip}|`, `|{$puq_vpn_username}|`, `|{$puq_vpn_password}|`, `|{$puq_wg_config}|`, `|{$puq_wg_qr_html}|`, `|{$puq_service_url}|`.

“ The template is also auto-created on the first send if it is still missing, so the feature works even if you never touch the buttons.

## Speed presets (Configurable Options)

 Speed presets (Configurable Options)

Creates two WHMCS *Configurable Options* — **Download limit (Mbit/s)** and **Upload limit (Mbit/s)** — with ready-made speed presets (Unlimited, 10, 25, 50, 100, 250, 500, 1000 Mbit/s), priced at 0, and links them to this product. The customer's choice overrides the product's default limits for that order.

**CREATED & LINKED**

+ Create speed presets Done: group created, 2 option(s) created, 16 preset(s) added, linked to this product.

Safe to click repeatedly — only missing pieces are added. After creating, set per-preset pricing (if you charge for higher speeds) under *Setup → Products/Services → Configurable Options*, then save this product to refresh.

35-product-config-speed-presets.png

WHMCS **Configurable Options** let your customers choose their own download/upload speed at

order time and change it later through an upgrade/downgrade — turning a single product into a whole speed-tier line-up. The module reads the selected values and applies them to the VPN client, overriding the product's default bandwidth.

Setting these up by hand is fiddly, so the module does it for you with **one button**.

## One-click creation

Click **Create speed presets** and the module instantly builds and links everything:

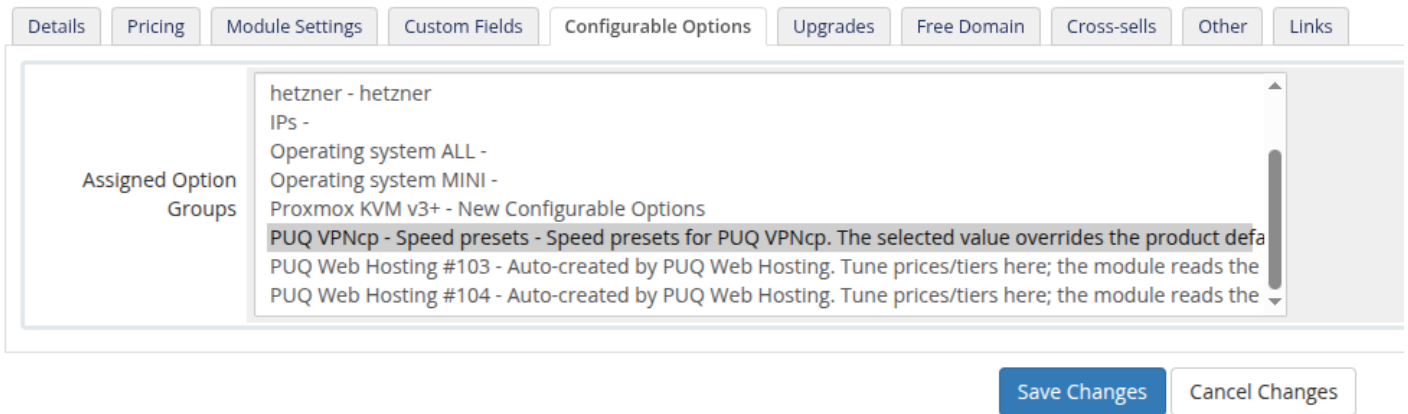
- a configurable-option group **PUQ VPNcp - Speed presets**;
- two dropdown options — **Download limit (Mbit/s)** and **Upload limit (Mbit/s)**;
- ready-made presets in each: **Unlimited, 10, 25, 50, 100, 250, 500, 1000 Mbit/s**, priced at `|0|` in every currency;
- a link from the group to the current product.

The button is **safe to click repeatedly** — only missing pieces are added, so your prices and edits are preserved. The status badge reflects the current state: *Not created yet* → *Created & linked*.

## What gets created

Option Name	Type	Reads as	Preset sub-options ( <code> value label </code> )
<code> puqVPNcp_b_download Download limit (Mbit/s) </code>	Dropdown	per-client download cap (Mbit/s)	<code> 0 Unlimited ,  10 10 Mbit/s ,  25 25 Mbit/s ,  50 50 Mbit/s ,  100 100 Mbit/s ,  250 250 Mbit/s ,  500 500 Mbit/s ,  1000 1000 Mbit/s </code>
<code> puqVPNcp_b_upload Upload limit (Mbit/s) </code>	Dropdown	per-client upload cap (Mbit/s)	same set as above

The text before the `|` is the internal name the module matches on; the text after the `|` is what the customer sees. The sub-option value `|0|` means **Unlimited**.



36-configurable-options-assigned.png

The group appears on the product's **Configurable Options** tab (already ticked under *Assigned Option Groups*) and under **System Settings → Products/Services → Configurable Options**.

Configurable Option Groups

Manage Group

Group Name	PUQ VPNcp - Speed presets
Description	Speed presets for PUQ VPNcp. The selected value overrides the product default download/upload limit for the order (Mbit/s; 0 = unlimited).
Assigned Products	<ul style="list-style-type: none"> <li>PUQVPNCP - vpn1</li> <li>HOSTING - Hosting 1/10</li> <li>HOSTING - Vanity</li> <li>Proxmox KVM - VPS Start</li> <li>Proxmox KVM - VPS Pro</li> <li>Proxmox KVM - VPS</li> <li>Support - Support 5h</li> <li>Support - Support 1h</li> </ul>

Configurable Options

Add New Configurable Option

Option	Sort Order	Hidden	
puqVPNcp_b_download   Download limit (Mbit/s)	<input type="text" value="0"/>	<input type="checkbox"/>	
puqVPNcp_b_upload   Upload limit (Mbit/s)	<input type="text" value="1"/>	<input type="checkbox"/>	

37-configurable-options-group.png

## Pricing the tiers

By default every preset is free (), so customers can switch speeds at no cost. To monetise faster tiers, open each option and set per-cycle pricing on the sub-options — for example charge more for  than for .

Configurable Options

Option Name: puqVPNcp\_b\_download | Download limit (Mbit/s) Option Type: Dropdown

Options		One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
0   Unlimited	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
	UAH	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
USD	Setup	0.00	0.00	0.00	0.00	0.00			
	Pricing	0.00	0.00	0.00	0.00	0.00			
10   10 Mbit/s	EUR	Setup	0.00	0.00	0.00	0.00	0.00	1	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
	UAH	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
USD	Setup	0.00	0.00	0.00	0.00	0.00			
	Pricing	0.00	0.00	0.00	0.00	0.00			
25   25 Mbit/s	EUR	Setup	0.00	0.00	0.00	0.00	0.00	2	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00		

38-configurable-options-download.png

Configurable Options

Option Name: puqVPNcp\_b\_upload | Upload limit (Mbit/s) Option Type: Dropdown

Options		One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
0   Unlimited	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
	UAH	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
USD	Setup	0.00	0.00	0.00	0.00	0.00			
	Pricing	0.00	0.00	0.00	0.00	0.00			
10   10 Mbit/s	EUR	Setup	0.00	0.00	0.00	0.00	0.00	1	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
	UAH	Setup	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00		
USD	Setup	0.00	0.00	0.00	0.00	0.00			
	Pricing	0.00	0.00	0.00	0.00	0.00			
25   25 Mbit/s	EUR	Setup	0.00	0.00	0.00	0.00	0.00	2	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00		

39-configurable-options-upload.png

After changing pricing, **save the product** to refresh the panel status.

## How the value is applied

Priority	Source	When used
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1 (wins)	Configurable Option selection	whenever the option is assigned to the service (including <code> 0 </code> = unlimited)
2	Product <b>Bandwidth</b> default (Module Settings)	when no speed option is assigned

On **provisioning** and on every **upgrade/downgrade** (WHMCS calls the module's change-package routine for configurable-option changes too), the module pushes the resolved `|b_download|` / `|b_upload|` to the panel via `PUT /api/v1/client/{name}`. So a customer who upgrades from *100 Mbit/s* to *500 Mbit/s* gets the new speed applied automatically, with no manual work for you.

“ Adding the speed options is optional. Skip the button and every service simply uses the product's **Bandwidth** defaults.

---

## VPN Networks

Tick which **server** → **network** pairs are allowed for this product. Order matters: the top-most pair is tried first; the first one that has a free IP *and* a free license slot is used. If nothing is ticked, the server WHMCS already assigned is used and the panel picks a network automatically.

Loaded 29 network(s) from 1 server(s) in group "puqvpncp-pl"

✓ new-dev.puqvpncp.com (dev.puqvpncp.com) · license slots: 1853/5050

- 7-5092
- 77\_87\_125\_209
- Default
- Default\_1
- Default\_2
- Default\_3
- TETS
- loadtest\_net1 – Load test network 1
- loadtest\_net10 – Load test network 10
- loadtest\_net11 – Load test network 11
- loadtest\_net12 – Load test network 12
- loadtest\_net13 – Load test network 13
- loadtest\_net14 – Load test network 14
- loadtest\_net15 – Load test network 15
- loadtest\_net16 – Load test network 16
- loadtest\_net17 – Load test network 17
- loadtest\_net18 – Load test network 18

10-product-config-vpn-networks.png

On opening the product, the module contacts **every enabled** `puqVPNcp` **server in the product's server group** and calls `GET /api/v1/network` on each. The UI then shows a per-server tree — unreachable servers remain visible with their error so you can see exactly what went wrong. License-slot capacity (`used / total`) is displayed next to each reachable server.

Each checkbox is a `server → network` pair. Ticking the same network name on two different servers creates two independent pairs.

## How a server and network are picked at deploy time

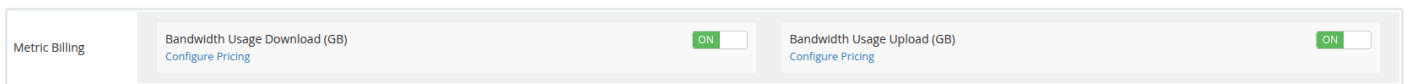
1. The module reads all ticked pairs in the order they appear in the list (top to bottom).

2. For each pair it checks (a) free licence slots on that server (`count_accounts < count_accounts_available` from `GET /api/v1/system/status`) **and** (b) at least one free IP on the network (`GET /api/v1/network/{name}/available_ip`).
3. **The first pair that passes both checks wins.** The service is **reassigned** (`tblhosting.server` is updated) to the selected server, and the client is created on the selected network via `POST /api/v1/client`.
4. If nothing is ticked, `network_name` is omitted from the create call and the panel of the server WHMCS already picked decides automatically.
5. If ticks exist but none is deployable (every chosen server is out of slots or every chosen network is full), provisioning fails — nothing is silently created on a wrong network.

Because order matters, put your **preferred** pairs at the top.

If the whole group is unreachable a red banner appears at the top of the section; previously saved ticks are preserved through hidden inputs so your configuration is not lost when you re-save the product.

## Metric Billing (optional)



*11-product-config-metric-billing.png*

The module ships a WHMCS **Usage Billing** provider with two metrics:

- **Bandwidth Usage Download (GB)**
- **Bandwidth Usage Upload (GB)**

Enable the metrics on the product's **Pricing** tab to charge customers per GB of traffic. The provider pulls daily totals directly from the panel via `GET /api/v1/client/{name}/traffic/{Y}/{m}` and reports them in gigabytes for the current calendar month. No local accumulation table is used — values come live from the panel each time WHMCS runs the usage-billing cron.