

18. REST API

Overview

PUQVPNCNCP provides a comprehensive REST API with **240+ endpoints** covering all panel functionality. The API uses JSON for requests and responses.

Authentication

All API endpoints require authentication via Bearer token:

```
curl -sk https://vpn.example.com/api/v1/system/status \  
-H "Authorization: Bearer YOUR_TOKEN_HERE"
```

Create API tokens in **Settings > API Tokens**. See [System Settings](#) for details.

Base URL

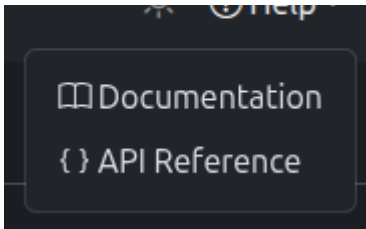
```
https://your-server.com/api/v1/
```

OpenAPI / Swagger Documentation

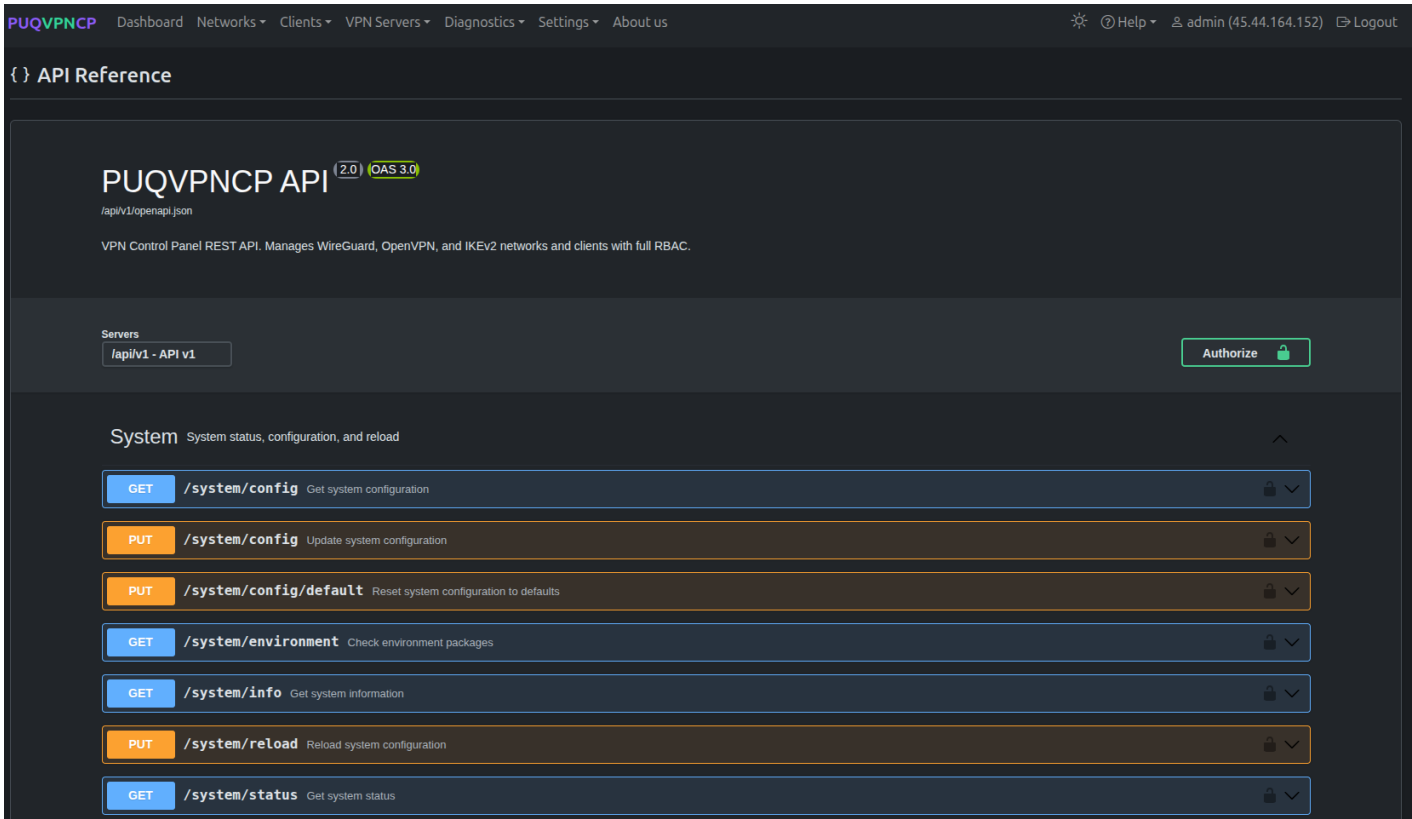
PUQVPNCNCP includes built-in interactive API documentation.

Swagger UI

Navigate to the **API** page in the web interface to access Swagger UI.



Swagger UI — interactive API documentation



Swagger UI — endpoint groups

OpenAPI Spec

The OpenAPI 3.0 JSON specification is available at:

```
https://your-server.com/api/v1/openapi.json
```

This endpoint does not require authentication and can be imported into Postman, Insomnia, or any OpenAPI-compatible tool.

API Endpoint Groups

Group	Endpoints	Description
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System	8	Status, info, reload, config, environment
Networks	11	CRUD + suggested data + keys regeneration
Clients	17	CRUD + online clients + config/QR per protocol
Peering	3	CRUD for peering rules
WireGuard	17	Server config + settings + keys + clients list
AmneziaWG	18	Server config, settings, client keys & profiles, obfuscation parameters, magic headers, QR codes
OpenVPN	12	Server config + clients list
IKEv2	13	Server config + clients list
Upstreams	10	CRUD + connect/disconnect + import
Firewall	12	Settings + pre/post rules CRUD
DNS	2	Config GET/PUT
One-Time Links	12	Config + links CRUD per protocol
Monitoring	4	Config, status, metrics
Backups	9	List, create, restore, config, FTP
License	3	Save, delete, check
API Tokens	4	CRUD
Permission Groups	5	CRUD + registry
System Users	6	CRUD + profile
Diagnostics	5	Protocol logs (WG, AWG, OpenVPN, IKEv2, firewall, system), info, TC stats

Response Format

Success Response

```
{
  "result": "OK",
  "message": "Operation completed successfully",
```

```
"data": { ... }  
}
```

Error Response

```
{  
  "result": "ERROR",  
  "message": "Descriptive error message",  
  "errors": {  
    "field_name": "Validation error for this field"  
  }  
}
```

Common API Examples

Get System Status

```
curl -sk https://vpn.example.com/api/v1/system/status \  
  -H "Authorization: Bearer TOKEN"
```

List All Networks

```
curl -sk https://vpn.example.com/api/v1/network \  
  -H "Authorization: Bearer TOKEN"
```

Create a Client

```
curl -sk -X POST https://vpn.example.com/api/v1/client \  
  -H "Authorization: Bearer TOKEN" \  
  -H "Content-Type: application/json" \  
  -d '{  
    "name": "new_client",  
    "username": "user1",
```

```
"password": "SecurePass123",  
"network": "office_vpn",  
"status": "Enable",  
"bandwidth_download": 10,  
"bandwidth_upload": 5  
'}
```

Get Client WireGuard Config

```
curl -sk https://vpn.example.com/api/v1/client/new_client/wireguard \  
-H "Authorization: Bearer TOKEN"
```

Get Client AmneziaWG Config

```
curl -sk https://vpn.example.com/api/v1/client/new_client/amneziawg/config \  
-H "Authorization: Bearer TOKEN"
```

Reload System

```
curl -sk -X POST https://vpn.example.com/api/v1/system/reload \  
-H "Authorization: Bearer TOKEN"
```

Integration

The API enables integration with:

- **Official WHMCS Provisioning Module** — turnkey automated VPN sales and provisioning for web hosting providers (automatic account creation on payment, suspension on overdue invoices, bandwidth shaping, and self-service config/QR delivery in client portal)
 - **Billing Systems** — full client lifecycle automation via REST endpoints (create, suspend, unsuspend, delete clients, adjust bandwidth limits, and fetch usage stats)
 - **Monitoring Systems** — pull metrics and status via `/api/v1/metrics`
 - **Custom Portals** — build your own user-facing VPN management interface
 - **Automation Scripts** — batch client creation, network management, and configuration export
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