18. REST API

Overview

PUQVPNCP 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

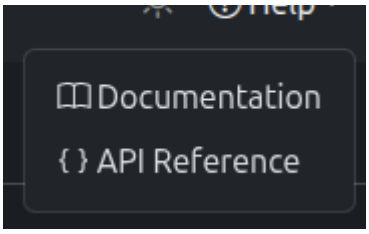
```
https://your-server.com/api/v1/
```

OpenAPI / Swagger Documentation

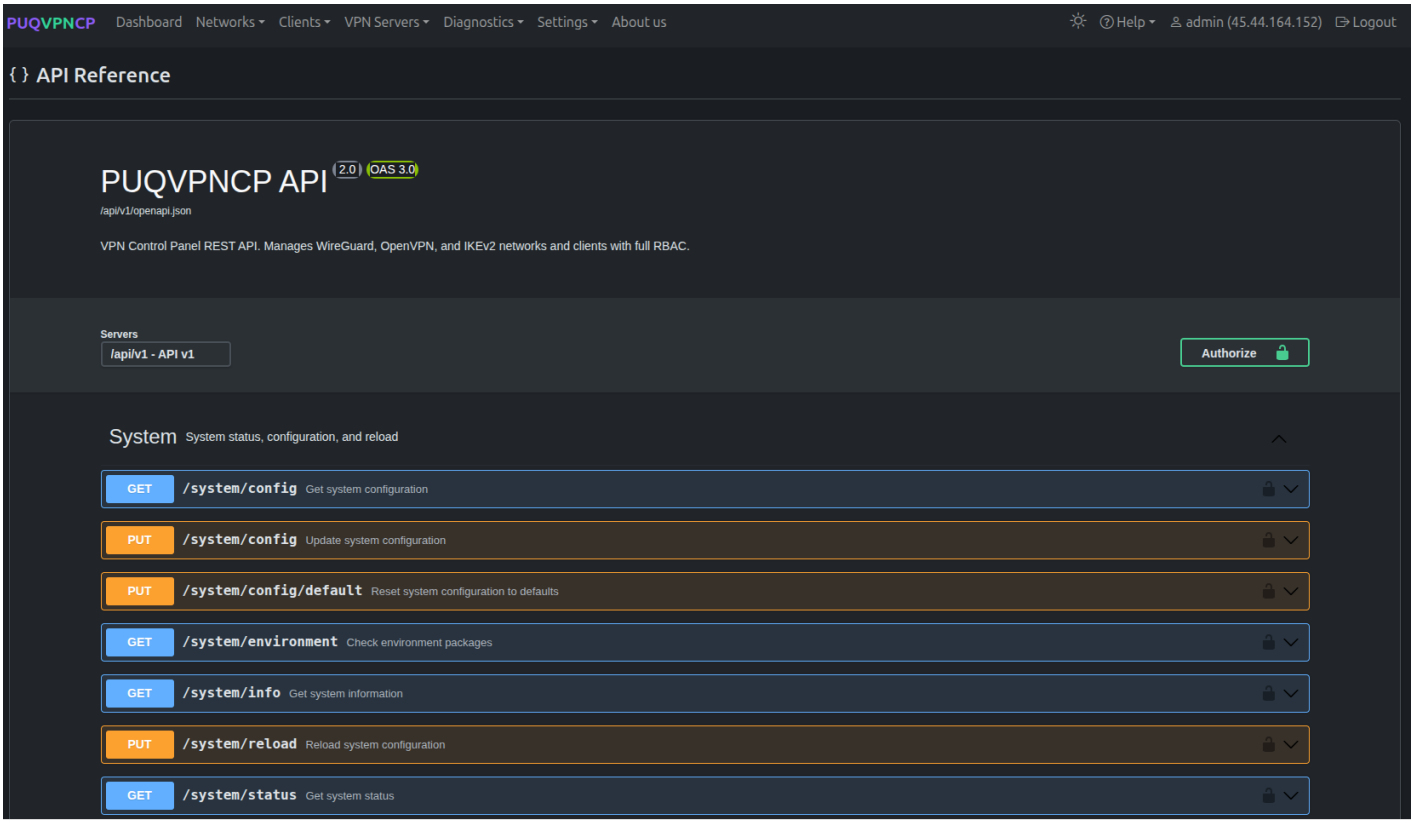
PUQVPNCP includes built-in interactive API documentation.

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

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

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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 deliveryin 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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