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15. Monitoring

Overview

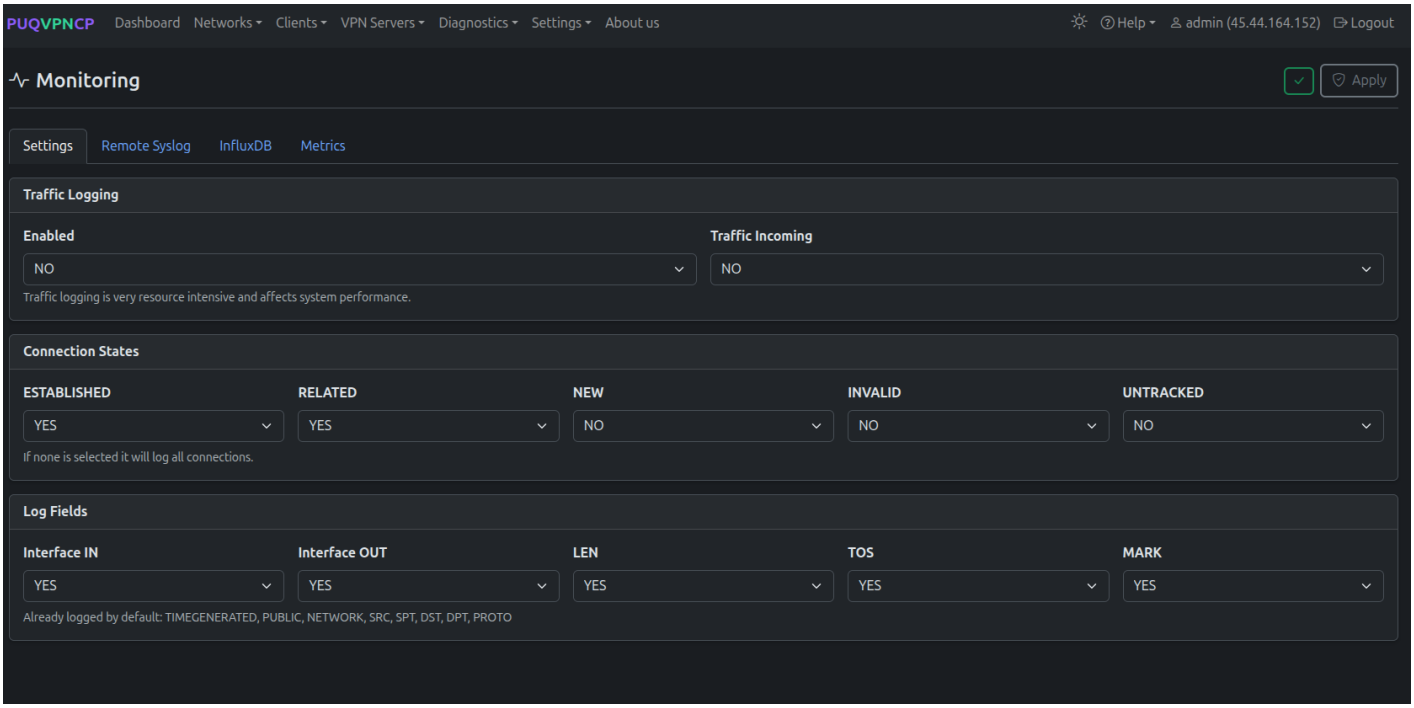
PUQVPNCP provides comprehensive traffic monitoring:

- **Built-in traffic statistics** — per-client and per-network, stored in local JSON files
- **rsyslog integration** — iptables traffic logging via syslog
- **InfluxDB export** — push metrics to InfluxDB for Grafana dashboards
- **Prometheus-compatible metrics** — HTTP metrics endpoint

Configuration

Navigate to **Settings > Monitoring**.

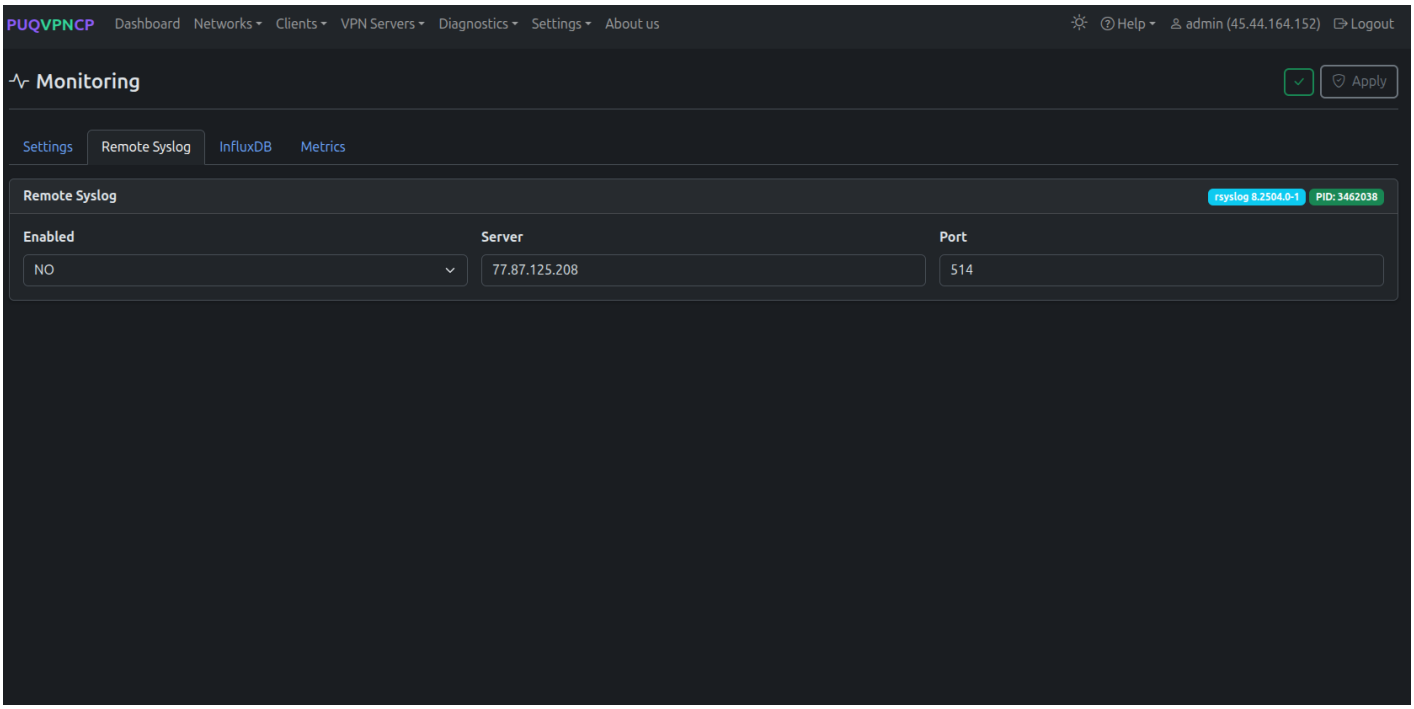
Traffic Logging



Monitoring configuration — traffic logging

Setting	Description
Logging	Enable iptables traffic logging via rsyslog
Log format	Log format template

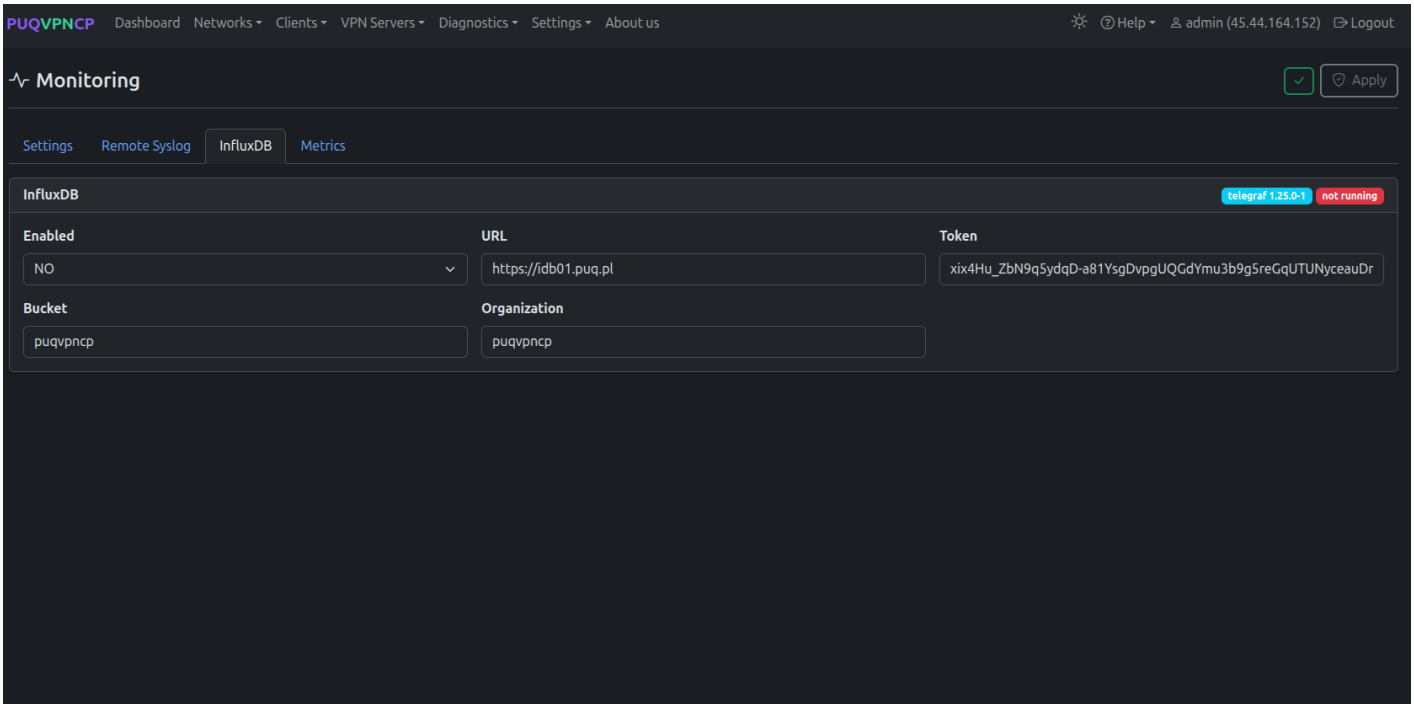
Remote Syslog



Remote syslog configuration

Forward traffic logs to a remote syslog server for centralized logging.

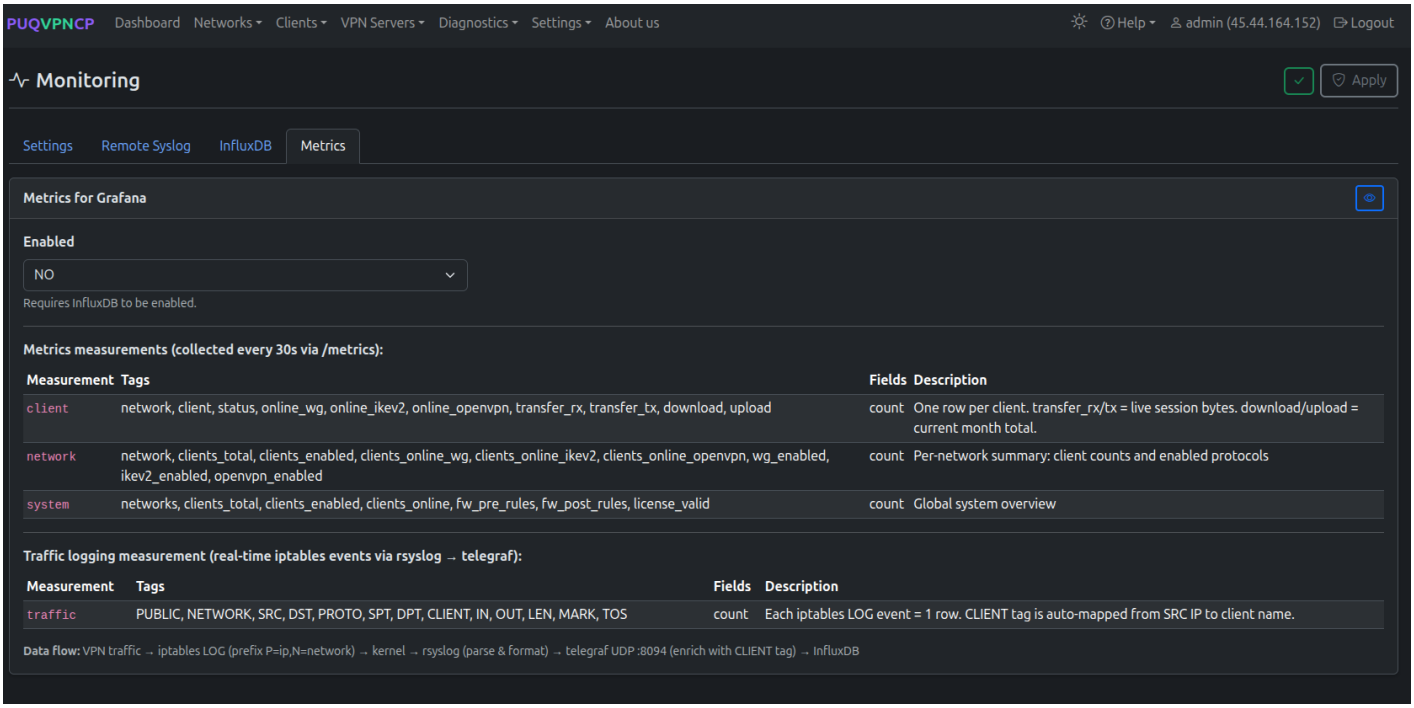
InfluxDB



InfluxDB configuration

Setting	Description
Enabled	Enable InfluxDB export
URL	InfluxDB server URL (e.g., `https://idb01.example.com`)
Token	Authentication token
Organization	InfluxDB organization
Bucket	Target bucket

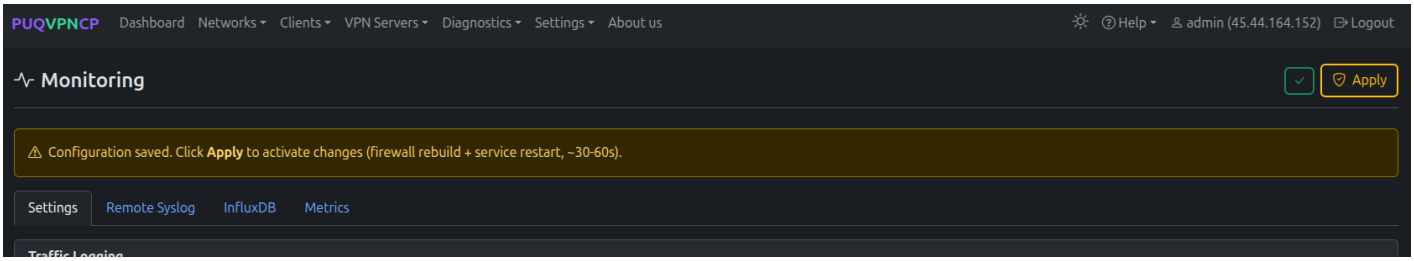
Metrics Endpoint



Metrics endpoint configuration

Enable a Prometheus-compatible HTTP metrics endpoint at `http://127.0.0.1:8098/metrics`.

Monitoring Status

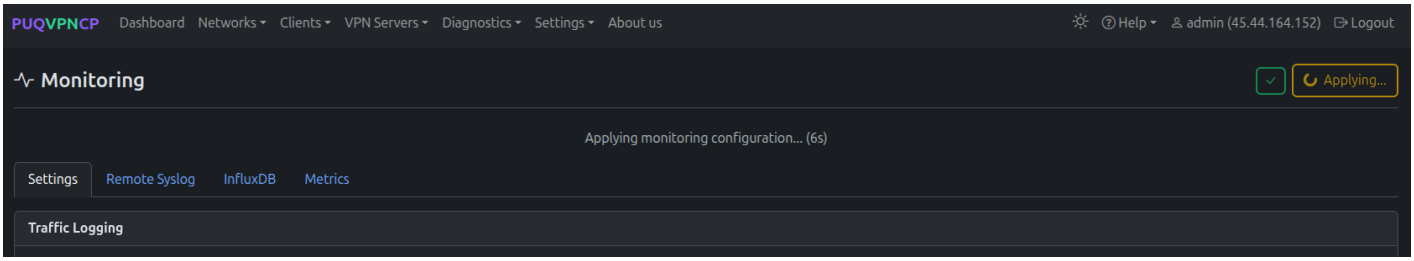


Monitoring services status

Shows the current state of all monitoring components:

- rsyslog service status
- telegraf service status
- InfluxDB connection status
- Metrics endpoint status

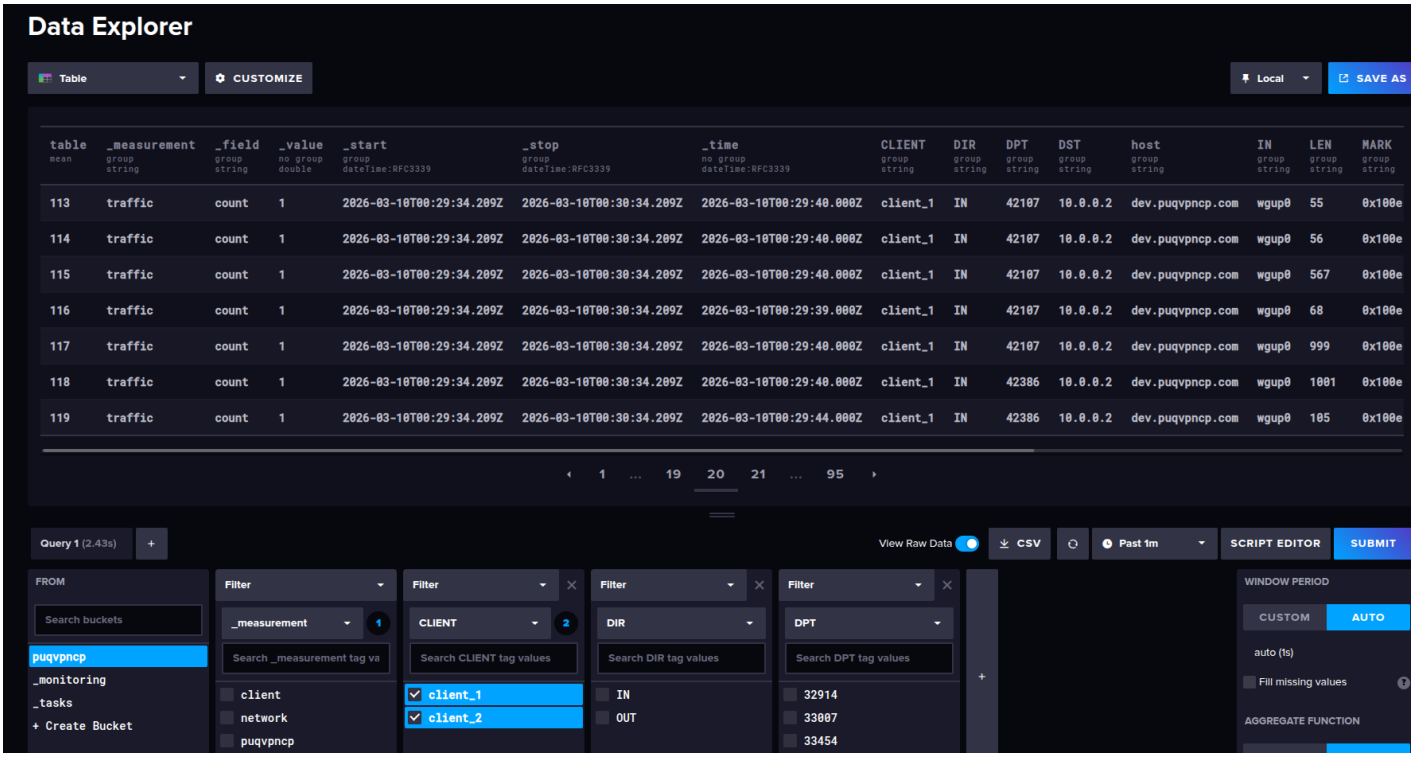
After changing monitoring settings and clicking **Save**, the configuration is applied with a countdown:



Applying monitoring configuration

Grafana Integration

Connect Grafana to your InfluxDB instance to create custom VPN dashboards.



Example Grafana dashboard with VPN traffic metrics

Available Metrics

Metric	Description
client_download_bytes	Per-client download traffic
client_upload_bytes	Per-client upload traffic
network_download_bytes	Per-network download traffic
network_upload_bytes	Per-network upload traffic
online_wireguard	WireGuard online peer count

Metric	Description
online_openvpn	OpenVPN connected session count
online_ikev2	IKEv2 active SA count

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