

# Overview

- What is WG-Easy?

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## Introduction to WG-Easy

**WG-Easy** is an all-in-one solution designed to simplify the deployment, management, and operation of a **WireGuard VPN** server. It combines a powerful VPN protocol (WireGuard) with a user-friendly web-based interface, making it easy for users to control their VPN server, manage clients, and view traffic statistics. WG-Easy leverages Docker, making it straightforward to deploy and maintain across various environments.

WireGuard is known for being a fast, modern VPN protocol, but setting it up can be a bit daunting for beginners. **WG-Easy** removes that complexity by providing an intuitive web UI and pre-configured environment for quick deployment and management of WireGuard.

## Key Features of WG-Easy

WG-Easy offers a rich set of features aimed at making WireGuard VPN management as effortless as possible:

1. **All-in-One WireGuard Solution:** Combines WireGuard with a simple web UI for managing VPN clients and settings.
2. **Web UI for Management:** Allows you to create, modify, and delete clients, as well as view their activity in real-time.
3. **Client Management:**
  - List and manage VPN clients.
  - Generate QR codes for easy mobile client configuration.
  - Download configuration files for clients.
4. **Traffic Statistics:** Provides detailed TX/RX charts for each connected client, allowing you to monitor bandwidth usage.

5. **Multi-language Support:** Supports multiple languages, including English, German, French, and more.
6. **Automatic Light/Dark Mode:** Web UI adjusts to your system theme preferences.
7. **Client Expiry and One-Time Links:** Set client expiration times and generate temporary download links for configurations.
8. **Prometheus Metrics Support:** Integration with Prometheus for detailed traffic metrics, perfect for monitoring via Grafana or other tools.
9. **Gravatar Support:** Displays user avatars based on email addresses, offering a personalized touch.
10. **Security Features:**
  - Admin login secured with a bcrypt password hash.
  - TLS support for secure API communication.