

Welcome to GhostRoute

Who we are:

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GhostRoute

VPN

Project Overview

- GhostRoute is a next-generation, privacy-focused VPN solution designed to overcome the limitations of traditional VPNs.
- Decentralized peer-to-peer architecture
- Enhanced privacy and unblocking capabilities
- User-friendly dashboard and seamless experience

Why Not Just Use a Regular VPN?

- Centralized servers are easy to track.
Many streaming and banking sites
detect and block VPN IPs
- User activity can be logged or
monitored by VPN providers
- Single points of failure and potential
privacy risks

Introducing GhostRoute

- Peer-to-peer VPN network: no central server
- Communicate through real private IPs
- Encrypted connections
- No entity that can monitor or log traffic
- Designed for privacy, resilience, and accessibility

How GhostRoute Works

- Coordinator App (React/TypeScript/Electron)
- Go Server (Golang, Wireguard)
- Go Client (Golang, Wireguard)
- Connection Manager Backend (Python, Flask)

Overcoming NAT and Connectivity Issues

- Problem: Many users are behind NAT/firewalls

Solution:

- NAT traversal techniques (Hole punching, Dedicated mediator server)
- Server disconnection are handled by providing alternative servers matching the user's preferences

Live Demo

Thank You!

Questions?



GhostRoute
VPN