

GhostWire Getting Started

Contents

Getting Started with GhostWire	1
Welcome!	1
For Non-Technical Users	1
What Can You Do with GhostWire?	1
How to Try It (No Coding Required)	2
What You'll See	2
For Technical Users	2
Prerequisites	2
Clone & Build	2
Real-World Onboarding Scenarios	3
Troubleshooting & Support	3
Next Steps	3

Getting Started with GhostWire

Welcome!

Whether you're a community organizer, a first responder, or a developer, GhostWire is designed to get you connected quickly and securely. This guide walks you through your first steps, no matter your background.

For Non-Technical Users

What Can You Do with GhostWire?

- **Send messages** to friends, family, or colleagues—even if the internet is down.
- **Join a local mesh** at an event, protest, or in your neighborhood.
- **Bridge to other networks** (like Briar or Meshtastic) for wider reach.

How to Try It (No Coding Required)

1. **Web Demo:** Visit the GhostWire demo site (if available) and follow the on-screen instructions.
2. **Join a Mesh Event:** Look for local meetups or disaster drills using GhostWire.
3. **Install the App:** Download the GhostWire app (coming soon) for your device.

What You'll See

- A simple chat interface.
 - Options to connect via Bluetooth, WiFi, or LoRa (if your device supports it).
 - Privacy and security settings you can adjust.
-

For Technical Users

Prerequisites

- **Rust** (latest stable)
- **Node.js** (v18+)
- **npm**
- **Git**

Clone & Build

```
git clone https://github.com/phantomojo/GhostWire-secure-mesh-communication.git
cd GhostWire-secure-mesh-communication
```

Backend (Rust)

```
cd ghostwire
cargo build --release
cargo run --release
```

Frontend (React/Tailwind)

```
cd webui
npm install
npm run dev
```

- Web UI: <http://localhost:3000>

Astro Site (Project Homepage)

```
cd astro-site
npm install
npm run dev
```

- Astro site: <http://localhost:4321>
-

Real-World Onboarding Scenarios

- **Disaster Drill:** Volunteers set up GhostWire nodes using laptops and LoRa radios to relay messages across a city block.
 - **Rural Community:** Farmers install GhostWire on old smartphones to create a long-range mesh for weather alerts.
 - **Activist Group:** Organizers use GhostWire over Bluetooth to coordinate in a protest, avoiding cell networks.
-

Troubleshooting & Support

- **Can't connect?** Try switching transports (Bluetooth, WiFi, LoRa).
 - **Messages not sending?** Check your device's permissions and network settings.
 - **Need help?** Open an issue on GitHub or join the community Discord (coming soon).
-

Next Steps

- Architecture Deep Dive
 - Transports & Protocols
 - Security & Privacy
 - Protocol Adapters
 - FAQ
 - Contributing
-

GhostWire: Ready when you are.