

Matrix Server



Quick Look

Matrix Server is an open, decentralized communication platform that enables organizations to host their own secure messaging and collaboration environment. It is built on the Matrix protocol, which ensures interoperability across different chat clients while maintaining strong end-to-end encryption for privacy and trust.

With Matrix Server, organizations can run encrypted chat rooms, voice calls, and video meetings, while retaining full ownership of their data. It integrates seamlessly with clients such as Element, allowing users to communicate across multiple platforms and bridge with external services like Slack, IRC, or WhatsApp.

By offering a resilient, community-driven infrastructure, Matrix Server empowers civil society organizations to establish 24/7 peer support networks, protect sensitive conversations, and build a sustainable communication system free from reliance on centralized providers.

Features

Matrix Server offers powerful features to build secure, decentralized communication networks effectively:

- Provides a self-hosted platform for encrypted messaging, voice, and video communication under organizational control
- Supports real-time collaboration across teams and communities with persistent chat rooms and group spaces
- Ensures interoperability through the Matrix protocol, allowing bridges to platforms like Slack, IRC, and WhatsApp
- Offers strong end-to-end encryption and granular access controls to safeguard sensitive conversations
- Integrates with clients such as Element for user-friendly communication across desktop and mobile devices

How to Use

- Visit the Matrix website at <https://matrix.org>
- Choose the Synapse server implementation (the most widely used Matrix server) and follow the installation instructions for your operating system (Linux, macOS, or Windows)
- Alternatively, use a pre-configured hosting provider or Docker image to quickly deploy a Matrix Server without complex setup
- Once installed, connect through a Matrix client such as Element to create rooms, manage users, and start secure communication across your network