C I P H E R

Cipher Messenger

Link:

Cipher Messenger is an extreme-private messaging application based on TOR Network and Blockchain entropy. Cipher Messenger uses device-based onion services to communicate between users with no servers in between. P2P-connection established between users guaranties protection against MITM-type of attacks.

- Blockchain-based project
- IPFS-based project
- TOR-based project

Backend Task

- **Develop a micro-service architecture using robust solutions**
- **Achieve a point where web-servers are running on each device**
- **Create API for Blockchain communication using Ethereum "goeth"**
- **Create API for TOR communication using embed TOR executable**

Result

- **Project made in pure Golang**
- **Onion services host on each device**
- **Network using VPN by default, making 99.9% of traffic untraceable**
- **File-exchange based on IPFS project, reducing TOR traffic to only text exchange**
- **Combination of most reliable encryption algorithms makes it considerably impossible to crack messages**
- **Salt generation for every message enhances encryption making every message unique**