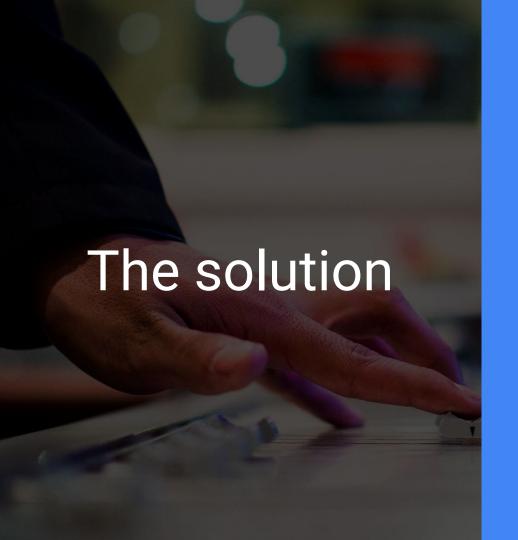
## LN - SOV Bridge

Sovrython Hackathon 2021

Pseudozach -

Mainnet SOV address: 0x0f3c187aEc8D05c01FCe70e17a5CfC4F38672488

Goal: Submarine Swaps between RSK chain and Lightning Network



Boltz exchange already has a great open source product that works between BTC onchain/LN and ETH/ERC20 tokens.

## How it works - Submarine Swap

#### Step 1

User creates a swap by providing LN invoice.

#### Step 2

User locks tokens to the contract using the preimage of the invoice, amount, timeout block height.

Swap Operator will track this on the blockchain.

#### Step 3

Swap operator will pay the invoice and receive the preimage.

Use the preimage to claim the tokens from the contract.



# Accomplished

- Forked boltz backend to work with RSK chain.
- RBTC <-> BTC LN Swaps
- SOV <-> BTC LN Swaps
- Forked boltz frontend to work with RSK/SOV.
- Deployed all required
  BTC/RSK/LND nodes to testnet
- Testnet live at

http://139.177.203.101:3000

## Next Steps

- Integrate Liquality wallet
- Automate lock/claim process to 1-click.
- Improve frontend
- Deploy to mainnet

# Demo Video

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### References/Links

LN - SOV Bridge:

https://github.com/pseudozach/Insovbridge

https://github.com/pseudozach/boltz-frontend

Testnet: http://139.177.203.101:3000

Demo Video: <a href="https://www.youtube.com/watch?v=SlljtldXBIs">https://www.youtube.com/watch?v=SlljtldXBIs</a>

**Boltz:** 

https://boltz.exchange

https://github.com/BoltzExchange/boltz-backend

https://docs.boltz.exchange/en/latest/