TrueBlocks / Unchained Index

Lehké indexování pro jakýkoli blockchain založený na EVM

Problém

- potřebujeme permissionless přístup k blockchain datům
- data musí být přesná a lehce dostupná
- nechceme být zavislí na Etherscanu a dalších centralizovaných službách
- doplněk pro dAppNode a vaší full-node
- **Soukromí!**

Co je to TrueBlocks?

- Jedná se o rychlý EVM indexovací software
- Připojení na full-node, nebo stažení indexu z IPFS (Unchained Index)
- Soukromé - index je na vašem počítači
- Open-source
- Multi-chain

Local First	Fast!	Immutable
The index may be created and cached on your local machine	⚡	Immutable data permits immutable indexes. Create once, read forever
Lightweight	**Multi Chain**	**Accurate**
Bloom filters massively reduce the size of data on disk	Supports any EVM-based chain	Reconciles your accounts to 18-decimals places for any assets
Built-in Sharing	**Fast!**	**Local Explorer**
Bloom filters and IPFS allows automatic sharing among users	⚡	Allows perfectly private browsing of your transaction history

Unchained Index

-   immutabilní přenositelný index se všemi daty
-   index Ethereum mainnet je dostupný na IPFS
-   aktuálně má cca 90 GB
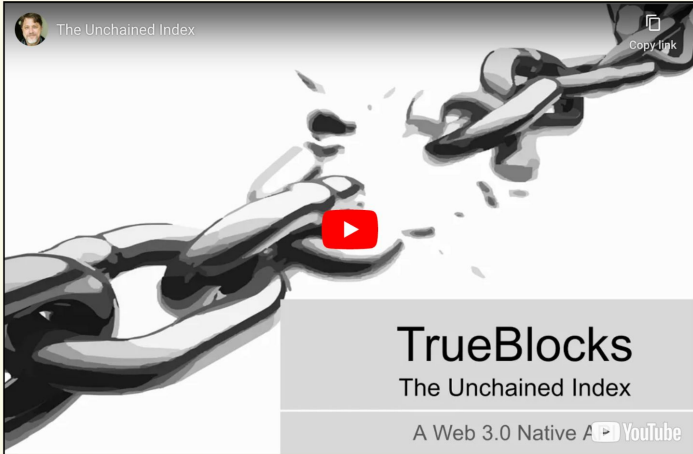-   více info v TB dokumentaci nebo na webu
    https://unchainedindex.io

Příkaz "chifra"

```
Purpose:
  Access to all TrueBlocks tools (chifra <cmd> --help for more).

  Accounts:
    list          list every appearance of an address anywhere on the chain
    export        export full detail of transactions for one or more addresses
    monitors      add, remove, clean, and list address monitors
    names         query addresses or names of well known accounts
    abis          fetches the ABI for a smart contract
  Chain Data:
    blocks        retrieve one or more blocks from the chain or local cache
    transactions  retrieve one or more transactions from the chain or local cache
    receipts      retrieve receipts for the given transaction(s)
    logs          retrieve logs for the given transaction(s)
    traces        retrieve traces for the given transaction(s)
    when          find block(s) based on date, blockNum, timestamp, or 'special'
  Chain State:
    state         retrieve account balance(s) for one or more addresses at given block(s)
    tokens        retrieve token balance(s) for one or more addresses at given block(s)
  Admin:
    config        report on and edit the configuration of the TrueBlocks system
    daemon        initalize and control long-running processes such as the API and the scrapers
    scrape        scan the chain and update the TrueBlocks index of appearances
    chunks        manage, investigate, and display the Unchained Index
    init          initialize the TrueBlocks system by downloading from IPFS
  Other:
    explore       open a local or remote explorer for one or more addresses, blocks, or transactions
    slurp         fetch data from EtherScan for any address
  Flags:
    -h, --help    display this help screen

  Use "chifra [command] --help" for more information about a command.
```
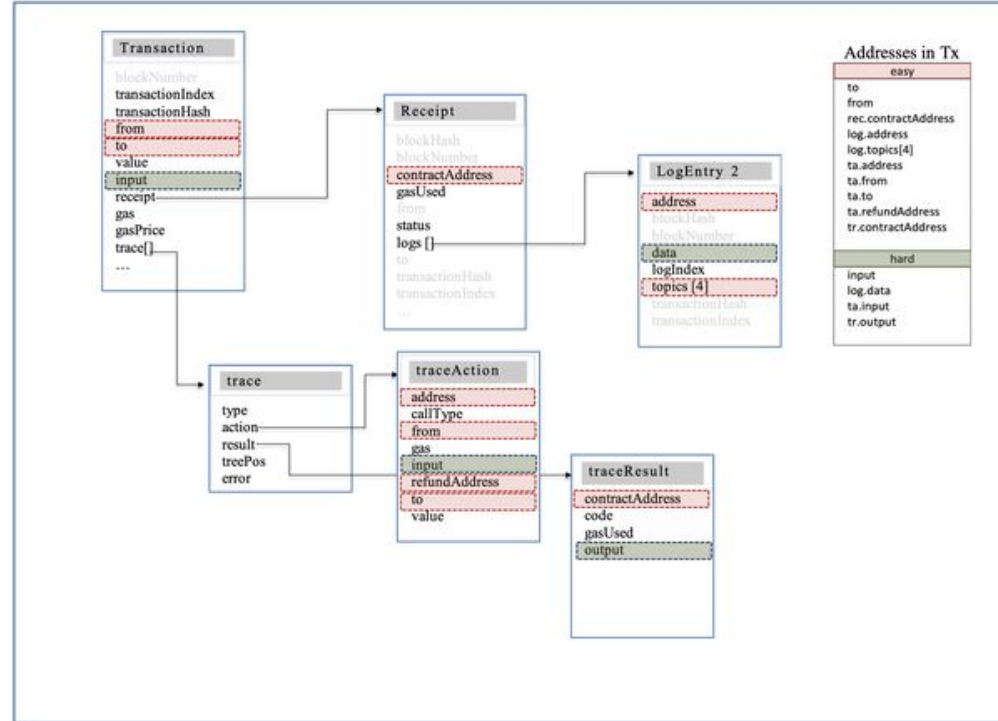
REST API

- hlavní přístup pro konzumaci dat
- Referenční příručka na
  https://trueblocks.io/api
- Ukázka viz další slide

Demo

Poslední blok:

https://eth-tb.gwei.cz/blocks?blocks=latest

Balance ETH adresy:

https://eth-tb.gwei.cz/state?addrs=0xa1e2421a68f0208b75acb0014a69e89b1f7492ea

Detail transakce:

https://eth-tb.gwei.cz/transactions?transactions=0x417a03f357e5ccab8be740

Všechny transakce jedné ETH adresy:

https://eth-tb.gwei.cz/export?addrs=0xa1e2421a68f0208b75acb0014a69e89b1f7492ea

Kde se o TrueBlocks dozvědět více?

- Web a dokumentace: https://trueblocks.io/
- Twitter: **@trueblocks**
- GitHub: **TrueBlocks** / https://github.com/TrueBlocks

Někdo nějaké dotazy?

Děkuji za pozornost!

Tree / Twitter: @treecz