Ethereum Block Explorer

2021.07.09

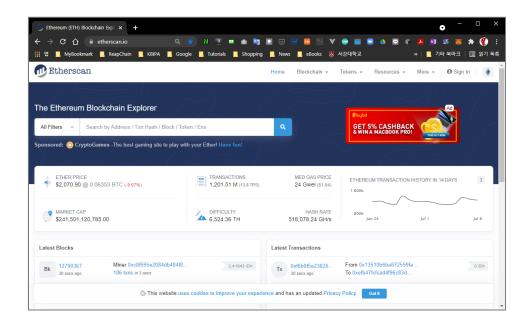
권수호

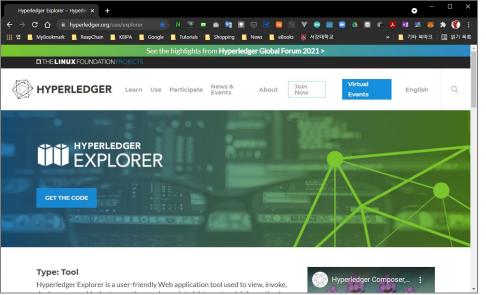
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Ethereum Block Explorer

Blockchain Explorer :

- A blockchain explorer is a piece of software that uses API and blockchain node to draw various data from a blockchain and then uses a database to arrange the searched data and to present the data to the user in a searchable format.
- User's inputs are searchable terms on the explorer which are then searched through an organized table on the database. The explorer will already have organized data from a blockchain into the table format.
- For most users, a blockchain explorer will allow you to search and explore data about **recently mined blocks or recently carried out transactions on a blockchain**. Ideally, they allow you to view a live feed of blocks as they are mined, as well as the data related to the blocks.

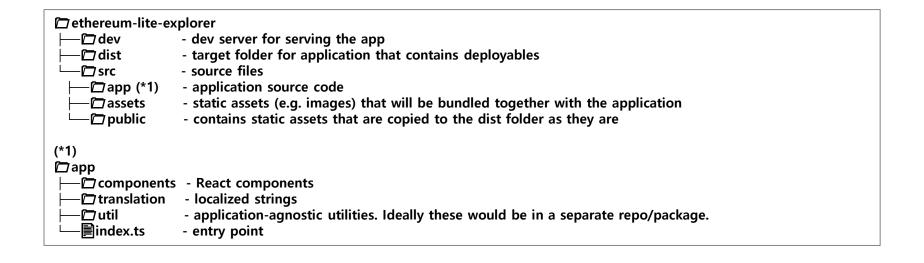




Ethereum Lite Explorer by Alethio(1/5)

Open Source Ethereum Lite Explorer :

• The Lite Explorer is a client-side only web application that connects directly to a Ethereum JSON RPC compatible node. This means you can have your own private Ethereum Explorer should you wish so. No need for servers, hosting or trusting any third parties to display chain data.



Ethereum Lite Explorer by Alethio(2/5)

• Prerequisites :

- Please make sure you have the following installed and running properly
 - Node.js >= 8.0 or Docker
 - If building it you will also need NPM >= 6.9 (NPM is distributed with Node.js. For more information see: https://www.npmjs.com/get-npm)
 - A JSON-RPC enabled and accessible Ethereum Client, some examples:
 - Geth
 - An Infura Account
 - Parity Light Client
 - Ganache
 - Besu Dev Mode private chain example
 - If not using the pre-built Docker images, you will need an HTTP server for serving the app and it must be deployed at the root of the domain/subdomain.

Ethereum Lite Explorer by Alethio(3/5)

Installation & Configuration :

- Step 01. Download the source code: "git clone https://github.com/Alethio/ethereum-lite-explorer.git"
- Step 02. Go to the downloaded source code directory: "cd ethereum-lite-explorer"
- Step 03. Install dependent packages: "npm install"
- Step 04. Copy configuration: "cp(or copy in windows) config.default.json config.dev.json"
- **Step 05**. Edit "**config.dev.json**" file. Remove "**?v=#.#**.#" strings in "plugins" URIs and change the "**nodeUrl**" as the following screenshot.

```
"plugins": [{
    "uri": "plugin://aleth.io/eth-common"
}, {
    "uri": "plugin://aleth.io/3box",
    "config": {
        "ipfsUrlMask": "https://ipfs.infura.io/ipfs/%s"
    }
}, {
    "uri": "plugin://aleth.io/eth-lite",
    "config": {
        "nodeUrl": "http://127.0.0.1:8545"
    }
}],
```

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Build :

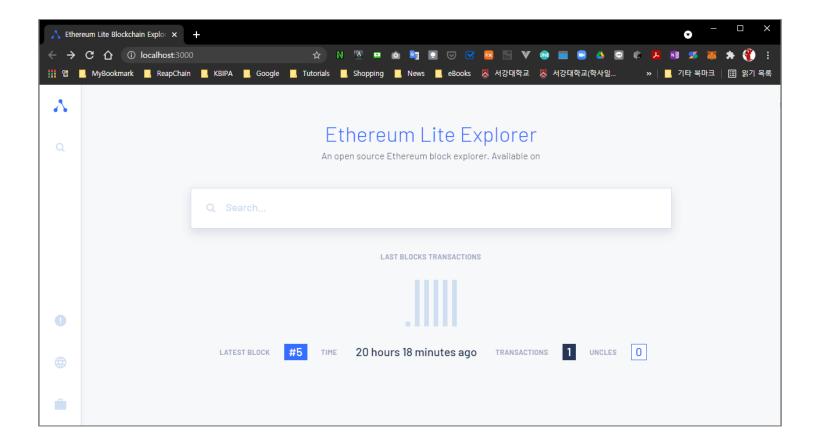
- Step 06. To start the development build, run "npm run watch" command. To build the minified version(used also for production), run "npm run build" command.
- Step 07. Install plugins.

\$ npm i -g @alethio/cms-plugin-tool \$ acp install --dev @alethio/explorer-plugin-eth-common @alethio/explorer-plugin-eth-lite @alethio/explorer-plugin-eth-memento @alethio/explorer-plugin-3box

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• Run:

- **Step 08**. Run the web application using "**npm start**" command.
- NOTICE!!! Whenever you use "npm run build" or "npm run build-dev" the dist folder is emptied, thus the plugins are also deleted and they need to be reinstalled.



Reference

• https://github.com/Alethio/ethereum-lite-explorer#configuration

Thanks!!!