Deploying a Block Explorer

Blockscout(opens in a new tab) is an open source block explorer that supports OP Stack chains. Keep reading for a quick overview on how to deploy Blockscout for your OP Stack chain.

Check out theBlockscout documentation(opens in a new tab) for up-to-date information on how to deploy and maintain a Blockscout instance.

Dependencies

- Docker(opens in a new tab)

Create an Archive Node

Blockscout needs access to anarchive node(opens in a new tab) for your OP Stack chain to properly index transactions, blocks, and internal interactions. If usingop-geth , you can run a node in archive mode with the--gcmode=archive flag.

Archive nodes take up significantly more disk space than full nodes. You may need to have 2-4 terabytes of disk space available (ideally SSD) if you intend to run an archive node for a production OP Stack chain. 1-200 gigabytes of disk space may be sufficient for a development chain.

Installation

Blockscout can be started from its source code on GitHub.

git

clone

https://github.com/blockscout/blockscout.git

-b

production-optimism cd

blockscout/docker-compose

Configuration

Review the configuration files within theenvs directory and make any necessary changes. In particular, make sure to reviewenvs/common-blockscout.env andenvs/common-frontend.env .

Starting Blockscout

Start Blockscout with the following command:

DOCKER_REPO

blockscout-optimism

docker

compose

-f

geth.yml

up

Usage

Explorer

After Blockscout is started, browse tohttp://localhost(opens in a new tab) to view the user interface. Note that this URL may

differ if you have changed the Blockscout configuration.

API

Blockscout provides both a REST API and a GraphQL API. Refer to theAPI documentation(opens in a new tab) for more information.

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