Manual Deployment (backend + old UI)

General deployment instructions for a hardware or cloud services environment

This method uses the deprecated UI and is not recommended. Please use the Manual Deployment Guide to deploy a new version of Blockscout.

Prepare Environment

Check your environment is prepared with General Requirements and Database Storage Requirements.

BlockScout requires afull archive node in order to import every state change for every address on the target network. For client specific settings related to a node running Erigon/Geth/Nethermind, please seeClient Settings.

For testing purposes, instead of an archive node, a test Ethereum client can be used. For instance ganache-cli

Deployment Steps

- 1) git clone https://github.com/blockscout/blockscout
- 2) cd blockscout
- 3) Provide DB URL:export DATABASE_URL=postgresql://user:password@localhost:5432/blockscout
 - · Linux:
 - Update the database username and password configuration
 - Mac:
 - Use logged-in user name and empty password
 - · Optional:
 - Change credentials inapps/explorer/config/test.exs
 - · for test env

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Example usage: Changing the default Postgres port from localhost:5432 iBoxen is installed. 4) Install Mix dependencies and compile themmix do deps.get, local.rebar --force, deps.compile

5) Generate a new secret_key_base for the DB by setting a corresponding ENV var:export SECRET_KEY_BASE=VTIB3uHDNbvrY0+60ZWgUoUBKDn9ppLR8MI4CpRz4/qLyEFs54ktJfaNT6Z221No

In order to generate a newsecret_key_base runmix phx.gen.secret 6) If you have deployed previously, remove static assets from the previous buildmix phx.digest.clean .

7) Setenvironment variables as needed.

CLI Example:

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Copy export ETHEREUM_JSONRPC_VARIANT=nethermind export ETHEREUM_JSONRPC_HTTP_URL=http://localhost:8545 export DATABASE_URL=postgresql://... export COIN=DAI export MIX_ENV=prod export ...

It is important to set the variableMIX_ENV=prod during deployment. The current default isMIX_ENV=dev which is a slower and less secure setting. TheETHEREUM_JSONRPC_VARIANT will vary depending on your client (nethermind, geth etc). More information on client settings . 8) Install and start the mart contract verification microservice . You can use docker , build from source , or use cargo directly (example below). If you experience issues, see the extensive mart contract verifier readme .

- 1. Using docker:
- 2.
- docker run -p 8050:8050 ghcr.io/blockscout/smart-contract-verifier:latest
- 3.
- 4. Or installrust
- 5. and build from sources:
- 6.
- cargo install --locked --git https://github.com/blockscout/blockscout-rs smart-contract-verifier-server
- 7.Then run the binary assmart-contract-verifier-server

8. *

9. Set ENV variables in CLI to enable the rust microservice for Blockscout (these can also be set at runtime).

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Copy export MICROSERVICE_SC_VERIFIER_ENABLED=true export MICROSERVICE SC VERIFIER URL=http://0.0.0.0:8050/

...

- 9) Compile the application:mix compile
- 10) If not already running, start Postgres:pg_ctl -D /usr/local/var/postgres start

To checkpostgres status:pg isready 11) Create and migrate databasemix do ecto.create, ecto.migrate

If you are in dev environment and have run the application previously with a different blockchain, drop the previous databasemix do ecto.drop, ecto.create, ecto.migrate Be careful since it will delete all data from the DB. Don't execute it on production if you don't want to lose all the data! 12) Install Node.js dependencies

Optional: If preferred, use npm ci rather than npm install to strictly follow all package versions in package-lock.json . * cd apps/block_scout_web/assets; npm install && node_modules/webpack/bin/webpack.js --mode production; cd - * cd apps/explorer && npm install; cd - *

- 13) Build static assets for deploymentmix phx.digest
- 14) Enable HTTPS in development. The Phoenix server only runs with HTTPS.
 - cd apps/block_scout_web; mix phx.gen.cert blockscout blockscout.local; cd -
 - · Add blockscout and blockscout.local to your/etc/hosts

Copy 127.0.0.1 localhost blockscout blockscout.local

255.255.255.broadcasthost

::1 localhost blockscout blockscout.local

...

If using Chrome, Enablechrome://flags/#allow-insecure-localhost 15) Return to the root directory and start the Phoenix Server.mix phx.server

16) Check the Frontend Migration section if you would like to connect the enhanced frontend UI to the manually installed backend.

Last updated3 months ago