Docker-compose Deployment

For local builds

Please see https://github.com/blockscout/blockscout/tree/master/docker-compose for all required information.

Prerequisites

- Docker v20.10+
- Docker-compose 2.x.x+
- Running Ethereum JSON RPC client

Building Docker containers from source

```

Copy cd./docker-compose docker-composeup--build

```

Note : you can usedocker compose instead ofdocker-compose , if compose v2 plugin is installed in Docker. Note : if you don't need to make backend customizations, you can rundocker-compose up in order to launch from pre-build backend Docker image. This will be much faster. This command usesdocker-compose.yml by-default, which builds the backend of the explorer into the Docker image and runs 9 Docker containers:

- Postgres 14.x database, which will be available at port 7432 on the host machine.
- Redis database of the latest version.
- Blockscout backend with api at /api path.
- Nginx proxy to bind backend, frontend and microservices.
- Blockscout explorer at http://localhost.

and 4 containers for microservices (written in Rust):

- Stats
- service with a separate Postgres 14 DB.
- Sol2UML visualizer
- service.
- Sig-provider
- service.
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Note for Linux users : Linux users who run Blockscout in dockerwith a local node need to run the node on http://0.0.0.0/ rather than http://127.0.0.1/

Configs for different Ethereum clients

The repo contains built-in configs for different JSON RPC clients without the need to build the image.

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- Run only the explorer without DB:docker-compose -f external-db.yml up -d
- . In this case, no db container is created. And it assumes that the DB credentials are provided throughDATABASE_URL
- environment variable on the backend container.
- Running explorer with external backend:docker-compose -f external-backend.yml up -d
- Running explorer with external frontend:docker-compose -f external-frontend.yml up -d
- Running all microservices:docker-compose -f microservices.yml up -d
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All of the configs assume the Ethereum JSON RPC is running at http://localhost:8545.

In order to stop launched containers, rundocker-compose -d -f config_file.yml down , replacingconfig_file.yml with the file name of the config which was previously launched.

You can adjust BlockScout environment variables:

- for backend in./envs/common-blockscout.env
- for frontend in./envs/common-frontend.env

- for stats service in ./envs/common-stats.env
- for visualizer in ./envs/common-visualizer.env
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Descriptions of the ENVs are available

- for[backend](#)
- for[frontend](#)
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Running via Makefile

Prerequisites are the same, as for docker-compose setup.

Start all containers:

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Copy cd ./docker makestart

```

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Stop all containers:

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Copy cd ./docker makestop

```

```

Note : Makefile uses the same .env files since it is running docker-compose services inside.

Last updated2 months ago