

Separate Indexer, Web App, and API

Blockscout supports several modes which run in a single all-in-one application by default.

Modes

- [Indexer](#)
- [Web UI](#)
- [API](#)
- All-in-one (default)
-

It is possible to run modes separately or in different combinations. For example, you may want to run the indexer mode + API to create an indexed db with programatic access and no UI, or indexer mode + UI to leverage Blockscout as a read-only explorer.

Note that the application is limited to 1 running indexer per 1 Blockscout instance. However, the indexer automatically reruns child processes within the Elixir architecture, making it quite fault-tolerant.

To run these modes separately, adjust ENV variables as follows:

After extending the set of environment variables for the instance, recompile the application (or rebuilt the docker image, if this is Docker version) to enable mode settings.

Indexer mode

To run Blockscout in indexer mode, disable the web application and API:

...

```
Copy exportDISABLE_WEBAPP=true exportAPI_V1_READ_METHODS_DISABLED=true
exportAPI_V1_WRITE_METHODS_DISABLED=true
```

...

Web application mode

To run Blockscout in web application mode only, disable the indexer and API read methods (API write functionality is not disabled to support smart contracts verification in the UI).

...

```
Copy exportDISABLE_INDEXER=true exportAPI_V1_READ_METHODS_DISABLED=true
```

...

If you have a separate web application and indexer and they are connected to the same database (via DATABASE_URL), you will see new incoming items on the web UI like in the all-in-one mode. This configuration allows you to scale the web UI separately from indexer.

API mode

To run in API mode, disable the indexer and webapp.

...

```
Copy exportDISABLE_INDEXER=true exportDISABLE_WEBAPP=true
```

...

In API mode the web UI will show the API docs page at the default path (/). In the default all-in-one mode, it is located on the /api-docs page.

Web UI + API mode

...

```
Copy export DISABLE_INDEXER=true
```

...

