

# Testing

## Requirements

- Installchromedriver
- . It is required to run tests from./apps/block\_scout\_web
- of the Umbrella application.
- This set of environment variables is required for each run of the test (mix test
- ) suite:
  - ```
  - Copy
  - export MIX\_ENV=test
  - export POSTGRES\_DB=explorer\_test
  - export POSTGRES\_PASSWORD=postgres
  - export POSTGRES\_USER=postgres
  - export CHAIN\_ID=77
  - ```
  -

## Running tests

1. Build assets.cd apps/block\_scout\_web/assets && npm run build; cd -
2. Format Elixir code.mix format
3. Lint Elixir code.mix credo --strict
4. Run the dialyzer.mix dialyzer --halt-exit-status
5. Check the Elixir code for vulnerabilities.cd apps/explorer && mix sobelow --config; cd -
6. cd apps/block\_scout\_web && mix sobelow --config; cd -
7. Lint JavaScript code.cd apps/block\_scout\_web/assets && npm run eslint; cd -
8. Test JavaScript code.cd apps/block\_scout\_web/assets && npm run test; cd -
9. Run separate test suites for the Umbrella application
10. -indexer
11. mix do ecto.create --quiet, ecto.migrate && cd apps/indexer && mix do compile, test --no-start && cd -
12. -explorer
13. mix do ecto.create --quiet, ecto.migrate && cd apps/explorer && mix do compile, test --no-start && cd -
14. -block\_scout\_web
15. mix do ecto.create --quiet, ecto.migrate && cd apps/block\_scout\_web && mix do compile, test --no-start && cd -
16. -ethereum\_jsonrpc
17. mix do ecto.create --quiet, ecto.migrate && cd apps/ethereum\_jsonrpc && mix do compile, test --no-start && cd -
- 18.

## Nethermind

### Mox

This is the default setup. mix test --no-start will work on its own, but to be explicit, use the following setup :

```

```
Copy ETHEREUM_JSONRPC_CASE=EthereumJSONRPC.Case.Nethermind.Mox \  
ETHEREUM_JSONRPC_WEB_SOCKET_CASE=EthereumJSONRPC.WebSocket.Case.Mox \  
no_nethermind
```

```

### HTTP / WebSocket

```

```
Copy ETHEREUM_JSONRPC_CASE=EthereumJSONRPC.Case.Nethermind.HTTPWebSocket \  
ETHEREUM_JSONRPC_WEB_SOCKET_CASE=EthereumJSONRPC.WebSocket.Case.Nethermind \  
exclude no_nethermind
```

```

Protocol URL HTTP http://localhost:8545 WebSocket ws://localhost:8546

### Geth

### Mox

...

```
Copy ETHEREUM_JSONRPC_CASE=EthereumJSONRPC.Case.Geth.Mox \  
ETHEREUM_JSONRPC_WEB_SOCKET_CASE=EthereumJSONRPC.WebSocket.Case.Mox \  
mix test --no-start --exclude no_geth
```

...

HTTP / WebSocket

...

```
Copy ETHEREUM_JSONRPC_CASE=EthereumJSONRPC.Case.Geth.HTTPWebSocket \  
ETHEREUM_JSONRPC_WEB_SOCKET_CASE=EthereumJSONRPC.WebSocket.Case.Geth \  
mix test --no-start --exclude no_geth
```

...

Protocol URL HTTP <https://mainnet.infura.io/8ITvJTKmHPCHazkneJsY> WebSocket  
<wss://mainnet.infura.io/ws/8ITvJTKmHPCHazkneJsY>

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