CoW Grant - E2E tests migration

Author

I am [meetmangukiya](#). I am a software developer, have been in DeFi and web3 space for over 3 years now. I also have familiarity with CoW protocol technicals.

Grant Category

Miscellaneous

Grant Description

[github.com](#)

[cowdao-grants/rfps/blob/main/RFP-04.md](#)

RFP-04: Migrating E2E Tests to Foundry

Preamble

Requests for proposals are not to be taken as prescriptive or exhaustive. The community is encouraged to submit proposals that build upon the ideas presented in this document. The scope of the project may change based on the proposal received. The primary intent of this document is to provide a starting point from which to achieve the goals outlined, and what is ultimately implemented may differ from the initial proposal.

Background

CoW Protocol is committed to maintaining a robust and reliable testing framework for its smart contracts. Currently, the end-to-end (E2E) tests for the CoW Protocol contracts repository are implemented using Hardhat. However, to align with the evolving needs of the developer community and to leverage the capabilities of the Foundry testing framework, there is a need to migrate the existing E2E tests from Hardhat to Foundry. This migration is intended to improve test performance, developer experience, and the overall reliability of the testing process.

Goal

The goals of this project are the following:

1. Migrate all existing E2E tests (as described in issue[106](#)) from Hardhat to Foundry.
2. Ensure that all E2E tests that are suitable as fork tests are implemented accordingly.
3. Integrate the existing unit test libraries with the new Foundry E2E tests to ensure consistency and reusability across the testing suite.
4. Modify the CI/CD pipeline to ensure that the E2E tests are deterministic, with tests pinned to a specific block number.

Key Features

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Milestones

- Completing migration of all tests in the [test/e2e/

](https://github.com/cowprotocol/contracts/tree/main/test/e2e) folder

Funding Request

8000 xDAI

Gnosis Chain Address

gno:0xd33d055ea52ec5a685995d40f19fa98d0744df0c

Terms and Conditions

By submitting this grant application, I acknowledge and agree to be bound by the CoW DAO Participation Agreement and the CoW Grant Terms and Conditions.