ANASTASIA LABS

Proof of Achievement - Milestone 4

Test Execution Results

Project Number   1100024
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Contents

Project Name: Lucid Evolution: Redefining Off-Chain Transactions in Cardano
URL: Catalyst Proposal

Evidence Definition

Test execution reports documenting the results of testing, including pass/fail status, identified issues, and any necessary follow-up actions taken

Test Execution Results

Our tests involve executing >100 CI tests against the latest updated state with every update we push. **All test cases run directly on the Cardano preprod and preview networks.** For a better understanding please refer to our repository directly, specifically the test cases:

- `onchain-preprod.test.ts`

- `onchain-preview.test.ts`

In our tests we cover different domains of operations:

Transaction Building Tests validate basic and complex transaction construction, including multi-asset handling and metadata integration. Our transaction chaining tests requiring that dependent transactions execute correctly in sequence.

Stake Operations Testing of stake registration, delegation, and rewards. This includes native staking operations and complex scenarios involving multiple validators.

Conway Era Features

Full coverage of new governance endpoints, including DRep registration, voting delegation, and combinations of pool and DRep delegation scenarios.

Multi-Validator Operations Tests that verify complex interactions between different validator scripts

Asset Management several different operations for native assets, including minting, burning, and transfer scenarios, with proper verification of token policies.

As part of our CI pipeline, these tests run regularly, ensuring ongoing compatibility and reliability with each new version of `lucid-evolution`. Each test execution validates not just the success of operations, but also proper resource management through UTxO recycling and optimization.

So everytime we are updating our library we ensure that we can meet the demands of our testing suite to have a reference of secure design

Proof Video

Example test execution of all our tests in our testing suite passing (from `onchain-preprod.test.ts`):

Proof video

Succesful Library check

Testing of Conway Era functions

To ensure consistency across different Cardano environments, we run our test suite on both the Preview and Preprod networks:

- `packages/lucid/test/onchain-preview.test.ts`

- `packages/lucid/test/onchain-preprod.test.ts`

GIF Testrun

Succesful Governance Test

This GIF, **a onchain test** running in terminal, showcases
that our test packages are working as intended by displaying succesfully executed test cases