Assure Defi® THE VERIFICATION GOLD STANDARD



Security Assessment

Devour

Date: 12/05/2024

Audit Status: PASS

Audit Edition: Advanced





Risk Analysis

Vulnerability summary

| Classification | Description |
|----------------|--|
| High | High-level vulnerabilities can result in the loss of assets or manipulation of data. |
| Medium | Medium-level vulnerabilities can be challenging to exploit, but they still have a considerable impact on smart contract execution, such as allowing public access to critical functions. |
| Low | Low-level vulnerabilities are primarily associated with outdated or unused code snippets that generally do not significantly impact execution, sometimes they can be ignored. |
| Informational | Informational vulnerabilities, code style violations, and informational statements do not affect smart contract execution and can typically be disregarded. |

Executive Summary

According to the Assure assessment, the Customer's smart contract is **Well Secured.**

| Insecure | Poorly Secured | Secured | Well Secured |
|----------|----------------|---------|--------------|
| | | | |

Scope

Target Code And Revision

For this audit, we performed research, investigation, and review of the Devour contracts followed by issue reporting, along with mitigation and remediation instructions outlined in this report.

Target Code And Revision

| Project | Assure | |
|-------------------|---|--|
| Language | Solidity | |
| Codebase | UNCX Token minter - ENMT.sol https://etherscan.io/token/0xe5a733681bbe6c d8c764bb8078ef8e13a576dd78 | |
| Audit Methodology | Static, Manual | |

Attacks made to the contract

In order to check for the security of the contract, we tested several attacks in order to make sure that the contract is secure and follows best practices.

| Category | Item |
|---------------------------------|--|
| Code review & Functional Review | Compiler warnings. Race conditions and Reentrancy. Cross-function race conditions. Possible delays in data delivery. Oracle calls. Front running. Timestamp dependence. Integer Overflow and Underflow. DoS with Revert. DoS with block gas limit. Methods execution permissions. Economy model. Private user data leaks. Malicious Event log. Scoping and Declarations. Uninitialized storage pointers. Arithmetic accuracy. Design Logic. Cross-function race conditions. Safe Zeppelin module. Fallback function security. Overpowered functions / Owner privileges |

AUDIT OVERVIEW



No high severity issues were found.



No medium severity issues were found.



No low severity issues were found.



No informational severity issues were found.

Testing coverage

During the testing phase, custom use cases were written to cover all the logic of contracts. *Check "Annexes" to see the testing code.

Devour staking test:

Coverages:

```
contract: ENMT - 86.1%
ERC20.decreaseAllowance - 100.0%
ERC20.transferFrom - 100.0%
ERC20._burn - 87.5%
ERC20._transfer - 83.3%
ERC20._approve - 75.0%
```

Contract test:

Annexes

Testing code:

```
from brownie import (
    reverts
from scripts.helpful_scripts import (
    ZERO_ADDRESS,
    get_account,
from scripts.deploy import (
    deploy_enmt,
def test_transfer(only_local):
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    token = deploy_enmt(owner, owner, 1000000e18)
    tx = token.transfer(other, 10e18, {"from": owner})
    assert tx.events['Transfer'][0]['from'] == owner
   assert tx.events['Transfer'][0]['to'] == other
    assert tx.events['Transfer'][0]['value'] == 10e18
```

```
with reverts("ERC20: transfer amount exceeds balance"):
    token.transfer(extra, 15e18, {"from": other})
tx = token.transfer(extra, 1e18, {"from": other})
assert tx.events['Transfer'][0]['from'] == other
assert tx.events['Transfer'][0]['to'] == extra
assert tx.events['Transfer'][0]['value'] == 1e18
with reverts("ERC20: transfer amount exceeds allowance"):
    token.transferFrom(other, extra, 1e18, {"from": owner})
token.approve(owner, 1e18, {"from": other})
tx = token.transferFrom(other, extra, 1e18, {"from": owner})
assert tx.events['Transfer'][0]['from'] == other
assert tx.events['Transfer'][0]['to'] == extra
assert tx.events['Transfer'][0]['value'] == 1e18
tx = token.approve(owner, 5e18, {"from": other})
assert tx.events['Approval'][0]['owner'] == other
assert tx.events['Approval'][0]['spender'] == owner
assert tx.events['Approval'][0]['value'] == 5e18
token.decreaseAllowance(owner, 5e18, {"from": other})
with reverts("ERC20: decreased allowance below zero"):
    token.decreaseAllowance(owner, 5e18, {"from": other})
```

```
def test_burn(only_local):
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
   token = deploy_enmt(owner, owner, 1000000e18)
   token.transfer(other, 10e18, {"from": owner})
   token.transfer(extra, 10e18, {"from": owner})
   with reverts("ERC20: burn amount exceeds balance"):
       token.burn(15e18, {"from": other})
   tx = token.burn(5e18, {"from": other})
   assert tx.events['Transfer'][0]['from'] == other
   assert tx.events['Transfer'][0]['to'] == ZERO_ADDRESS
   assert tx.events['Transfer'][0]['value'] == 5e18
```

Technical Findings Summary

Findings

| Vulnerability Level | Total | Pending | Not Apply | Acknowledged | Partially Fixed | Fixed |
|---------------------|-------|---------|--------------|--------------|--------------------|-------|
| High | 0 | | | | | |
| Medium | 0 | | | | | |
| Low | 0 | | | | | |
| Informational | 0 | | | | | |

Assessment Results

Score Results

| Review | Score |
|--------------|---------------|
| Global Score | 90/100 |
| Assure KYC | Not completed |
| Audit Score | 85/100 |

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below. The Global Score is a combination of the evaluations obtained between having or not having KYC and the type of contract audited together with its manual audit.

Audit PASS

Following our comprehensive security audit of the staking contract for Devour project, the audit has been successfully completed and passed with 0 issues detected.

Disclaimer

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