

Audit Report May, 2023



For





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Executive Summary

Project Name FBXToken

Overview FBXToken is ERC20 token with 10B totalsupply, it inherits ERC20

functionalities from OpenZeppelin ERC20 implementation.

Timeline April 24,2023 to April 26,2023

Method Manual Review, Functional Testing, Automated Testing etc.

Scope of Audit The scope of this audit was to analyze Finbloxapp's FBXToken Contract

code for quality, security, and correctness.

https://goerli.etherscan.io/

<u>address/0x5De597849Cf72c72f073e9085bDD0DadD8E6C199#code</u>



| | High | Medium | Low | Informational |
|---------------------------|------|--------|-----|---------------|
| Open Issues | 0 | 0 | 0 | 0 |
| Acknowledged Issues | 0 | 0 | 0 | 0 |
| Partially Resolved Issues | 0 | 0 | 0 | 0 |
| Resolved Issues | 0 | 0 | 0 | 0 |

Types of Severities

High

A high severity issue or vulnerability means that your smart contract can be exploited. Issues on this level are critical to the smart contract's performance or functionality, and we recommend these issues be fixed before moving to a live environment.

Medium

The issues marked as medium severity usually arise because of errors and deficiencies in the smart contract code. Issues on this level could potentially bring problems, and they should still be fixed.

Low

Low-level severity issues can cause minor impact and or are just warnings that can remain unfixed for now. It would be better to fix these issues at some point in the future.

Informational

These are severity issues that indicate an improvement request, a general question, a cosmetic or documentation error, or a request for information. There is low-to-no impact.

Types of Issues

Open

Security vulnerabilities identified that must be resolved and are currently unresolved.

Resolved

These are the issues identified in the initial audit and have been successfully fixed.

Acknowledged

Vulnerabilities which have been acknowledged but are yet to be resolved.

Partially Resolved

Considerable efforts have been invested to reduce the risk/impact of the security issue, but are not completely resolved.

Checked Vulnerabilities

Re-entrancy

Timestamp Dependence

Gas Limit and Loops

DoS with Block Gas Limit

Transaction-Ordering Dependence

Use of tx.origin

Exception disorder

Gasless send

Balance equality

Byte array

Transfer forwards all gas

BEP20 API violation

Malicious libraries

Compiler version not fixed

Redundant fallback function

Send instead of transfer

Style guide violation

Unchecked external call

Unchecked math

Unsafe type inference

Implicit visibility level

Techniques and Methods

Throughout the audit of smart contract, care was taken to ensure:

- The overall quality of code.
- Use of best practices.
- Code documentation and comments match logic and expected behaviour.
- Token distribution and calculations are as per the intended behaviour mentioned in the whitepaper.
- Implementation of ERC-20 token standards.
- Efficient use of gas.
- Code is safe from re-entrancy and other vulnerabilities.

The following techniques, methods and tools were used to review all the smart contracts.

Structural Analysis

In this step, we have analysed the design patterns and structure of smart contracts. A thorough check was done to ensure the smart contract is structured in a way that will not result in future problems.

Static Analysis

Static analysis of smart contracts was done to identify contract vulnerabilities. In this step, a series of automated tools are used to test the security of smart contracts.

Code Review / Manual Analysis

Manual analysis or review of code was done to identify new vulnerabilities or verify the vulnerabilities found during the static analysis. Contracts were completely manually analysed, their logic was checked and compared with the one described in the whitepaper. Besides, the results of the automated analysis were manually verified.

Gas Consumption

In this step, we have checked the behaviour of smart contracts in production. Checks were done to know how much gas gets consumed and the possibilities of optimization of code to reduce gas consumption.

Tools and Platforms used for Audit

Remix IDE, Truffle, Truffle Team, Solhint, Mythril, Slither, Solidity statistic analysis.

FinBlockApp - Audit Report

audits.quillhash.com

Manual Testing

A. Contract - FBXToken.sol

High Severity Issues

No issues were found

Medium Severity Issues

No issues were found

Low Severity Issues

No issues were found

Informational Issues

No issues were found

Functional Testing

Some of the tests performed are mentioned below:

- Contract mints initialBalance amount of tokens deployer address
- Should be able to transfer tokens to other address
- Should be able to approve tokens
- Should be able to tranferFrom approved tokens
- Should be able to increase and decrease allowance
- Reverts if spender tries to transfer tokens using tranferFrom more than the allowance
- Reverts if user tries to tranfer tokens more than the amount he holds
- Should be able to pause the contract
- Should not be able to transfer when contract is paused
- Should not allow non-owners to pause, unpause and take snapshots
- Should take snapshot

Automated Tests

No major issues were found. Some false positive errors were reported by the tools. All the other issues have been categorized above according to their level of severity.

Closing Summary

In this report, we have considered the security of the FinBloxapp. We performed our audit according to the procedure described above.

No Issues Found, During The Audit.

Disclaimer

QuillAudits smart contract audit is not a security warranty, investment advice, or an endorsement of the Finbloxapp Platform. This audit does not provide a security or correctness guarantee of the audited smart contracts.

The statements made in this document should not be interpreted as investment or legal advice, nor should its authors be held accountable for decisions made based on them. Securing smart contracts is a multistep process. One audit cannot be considered enough. We recommend that the Finbloxapp Team put in place a bug bounty program to encourage further analysis of the smart contract by other third parties.

About QuillAudits

QuillAudits is a secure smart contracts audit platform designed by QuillHash Technologies. We are a team of dedicated blockchain security experts and smart contract auditors determined to ensure that Smart Contract-based Web3 projects can avail the latest and best security solutions to operate in a trustworthy and risk-free ecosystem.



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