

Audit Report July, 2024



For





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Executive Summary

Project Name CYBRO

Overview CYBRO implements vault functionality where user can deposit into

different strategies and can withdraw.

Timeline 18th June 2024 - 5th July 2024

Updated Code Received NA

Second Review NA

Method Manual Review, Functional Testing, Automated Testing, etc. All the

raised flags were manually reviewed and re-tested to identify any

false positives.

Audit Scope The scope of this audit was to analyse the Cybro for quality,

security, and correctness.

Source Code https://github.com/cybro-io/vault-contracts/

tree/54dcbf105677588b03d01a9e0837c4d66e31a323

Contracts In-Scope AaveVault.sol

BaseVault.sol

CompoundVaultErc20.sol

CompoundVaultEth.sol

JuiceVault.sol

Branch Main

Fixed In NA

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Number of Security Issues per Severity



	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

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Checked Vulnerabilities



✓ 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

ERC20 API violation

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

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Techniques and Methods

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

- The overall quality of code.
- Use of best practices.
- Code documentation and comments match logic and expected behavior.
- Token distribution and calculations are as per the intended behavior mentioned in the whitepaper.
- Implementation of ERC's 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 analyzed 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

A 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 analyzed, 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 behavior 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

Hardhat, Foundry.



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Types of Severity

Every issue in this report has been assigned to a severity level. There are four levels of severity, and each of them has been explained below.

High Severity Issues

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 Severity Issues

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 Severity Issues

Low-level severity issues can cause minor impact and 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 four 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.

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 Tests Cases

- Shouldn't allow zero token deposit in AaveVault
- ✓ Shouldn't allow zero token deposit in JuiceVault
- ✓ Shouldn't allow zero token deposit in CompoundVault
- ✓ Test redeem function in AaveVault
- Test redeem function in JuiceVault
- Test redeem function in CompoundVault

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.

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Closing Summary

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

Code looks good, no issues were found.

Disclaimer

QuillAudits Smart contract security audit provides services to help identify and mitigate potential security risks in CYBRO smart contracts. However, it is important to understand that no security audit can guarantee complete protection against all possible security threats. QuillAudits audit reports are based on the information provided to us at the time of the audit, and we cannot guarantee the accuracy or completeness of this information. Additionally, the security landscape is constantly evolving, and new security threats may emerge after the audit has been completed.

Therefore, it is recommended that multiple audits and bug bounty programs be conducted to ensure the ongoing security of CYBRO smart contracts. One audit is not enough to guarantee complete protection against all possible security threats. It is important to implement proper risk management strategies and stay vigilant in monitoring your smart contracts for potential security risks.

QuillAudits cannot be held liable for any security breaches or losses that may occur subsequent to and despite using our audit services. It is the responsibility of the CYBRO to implement the recommendations provided in our audit reports and to take appropriate steps to mitigate potential security risks.

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