

Security Assessment



COFFEE Token

June 7, 2024

Audit Status: Pass Audit
Edition: Advance

Risk Analysis

Classifications of Manual Risk Results

1. Introduction

This document outlines the security audit conducted for the \$COFFEE token. The primary objective of this audit is to ensure the security, stability, and reliability of the \$COFFEE token smart contract. The audit covers various aspects including code review, functionality, security vulnerabilities, and best practices.

2. Scope

The scope of this audit includes the following areas:

- Smart contract code review
 - Security vulnerabilities
 - Functional correctness
 - Best practices adherence
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3. Methodology

The audit process involves the following steps:

1. **Code Review:** A thorough review of the smart contract code to identify any potential vulnerabilities or issues.
 2. **Static Analysis:** Using automated tools to detect security flaws and code smells.
 3. **Manual Testing:** Simulating various scenarios to test the functionality and security of the smart contract.
 4. **Best Practices Check:** Ensuring that the code adheres to industry best practices for smart contract development.
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4. Findings

4.1. Code Review

Summary: The smart contract code was reviewed line by line to ensure it performs as intended. No critical vulnerabilities were found.

- **Potential Vulnerabilities:** None
- **Code Smells:** Minor issues that do not affect the functionality but could be improved for better readability and maintenance.
- **Recommendations:** Improve comments and documentation for better clarity.

4.2. Security Vulnerabilities

Summary: The smart contract was tested for common security vulnerabilities.

- **Reentrancy:** No reentrancy vulnerabilities found.
- **Integer Overflow/Underflow:** The contract uses SafeMath to prevent these issues.
- **Access Control:** Proper access controls are in place to prevent unauthorized actions.

4.3. Functional Correctness

Summary: The contract was tested to ensure it functions as intended.

- **Token Minting:** Verified that tokens are minted correctly and in the specified amount.
- **Token Transfer:** Verified that token transfers work correctly and adhere to the specified rules.

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- **Token Burning:** Verified that token burning functions as intended.

4.4. Best Practices

Summary: The code was checked against industry best practices.

- **Gas Optimization:** The contract is optimized for gas efficiency.
 - **Error Handling:** Proper error handling mechanisms are in place.
 - **Modularity:** The code is modular and easy to understand.
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5. Conclusion

The \$COFFEE token smart contract has been thoroughly reviewed and tested. The audit did not reveal any critical vulnerabilities. Some minor issues and recommendations have been provided to improve the overall quality and maintainability of the code.

This audit report provides confidence in the security and functionality of the \$COFFEE token smart contract. Regular audits and continuous monitoring are recommended to maintain the security and integrity of the contract.

6. Disclaimer

This audit report is not an endorsement or investment advice. It is an assessment of the smart contract's code and its adherence to security best practices. The audit cannot guarantee the complete absence of vulnerabilities or issues.

