

Smart Contract Security Audit

AUDIT RATE TECH

for

IronFloki Metaverse NFT



**Audit Rate
Tech**



Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Audit details:

Audited project: IronFloki Metaverse NFT

Contract address: 0xe98c110f08CD66441e7f9f38Da97c0bB05995Fd7

Languages: Solidity (Smart contract)

Platforms and Tools: Remix IDE, Truffle, Truffle Team, Ganache, Solhint, VScode, Mythril, Contract Library

Total supply: 1,000,000,000

Token ticker: IFMN

Decimals: 9

Compiler Version: v0.6.12+commit.27d51765

Contract Deployer Address: 0xc8c5dF641339102Bf858e459D83B4C5Ce27Eaa0D

Optimization Enabled: Yes with 200 runs

Client contacts: IronFloki Metaverse NFT team

Blockchain: Binance Smart Chain

Project website: <https://ironfloki-metaverse.com/>

The audit items and results:

(Other unknown security vulnerabilities are not included in the audit responsibility scope)

Audit Result: Passed

Audit Date: December 10, 2021

Audit Team: AUDIT RATE TECH

<https://www.auditrate.tech>

Introduction

This Audit Report mainly focuses on the overall security of IronFloki Metaverse NFT Smart Contract. With this report, we have tried to ensure the reliability and correctness of their smart contract by complete and rigorous assessment of their system's architecture and the smart contract codebase.

Auditing Approach and Methodologies applied

The AUDIT RATE TECH team has performed rigorous testing of the project starting with analyzing the code design patterns in which we reviewed the smart contract architecture to ensure it is structured and safe use of third-party smart contracts and libraries.

Our team then performed a formal line by line inspection of the Smart Contract to find any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

In the Unit testing Phase, we coded/conducted custom unit tests written for each function in the contract to verify that each function works as expected.

In Automated Testing, we tested the Smart Contract with our in-house developed tools to identify vulnerabilities and security flaws.

The code was tested in collaboration of our multiple team members and this included -

- Testing the functionality of the Smart Contract to determine proper logic has been followed throughout the whole process.
- Analyzing the complexity of the code in depth and detailed, manual review of the code, lineby-line.
- Deploying the code on testnet using multiple clients to run live tests.
- Analyzing failure preparations to check how the Smart Contract performs in case of any bugs and vulnerabilities.
- Checking whether all the libraries used in the code are on the latest version.
- Analyzing the security of the on-chain data.

Audit Goals

The focus of the audit was to verify that the Smart Contract System is secure, resilient and working according to the specifications. The audit activities can be grouped in the following three categories:

Security

Identifying security related issues within each contract and the system of contract.

Sound Architecture

Evaluation of the architecture of this system through the lens of established smart contract best practices and general software best practices.

Code Correctness and Quality

A full review of the contract source code. The primary areas of focus include:

- Accuracy
- Readability
- Sections of code with high complexity
- Quantity and quality of test coverage

Issue Categories

Every issue in this report was assigned a severity level from the following:

High level severity issues

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium level severity issues

Issues on this level could potentially bring problems and should eventually be fixed.

Low level severity issues

Issues on this level are minor details and warnings that can remain unfixed but would be better fixed at some point in the future.

Number of issues per severity

| Critical | High | Medium | Low | Note |
|----------|------|--------|-----|------|
| 0 | 0 | 0 | 0 | 0 |

Issues Checking Status

| No | Issue description. | Checking status |
|----|---|-----------------|
| 1 | Compiler warnings. | Passed |
| 2 | Race conditions and Reentrancy. Cross-function race conditions. | Passed |
| 3 | Possible delays in data delivery. | Passed |
| 4 | Oracle calls. | Passed |
| 5 | Front running. | Passed |
| 6 | Timestamp dependence. | Passed |
| 7 | Integer Overflow and Underflow. | Passed |
| 8 | DoS with Revert. | Passed |
| 9 | DoS with block gas limit. | Passed |
| 10 | Methods execution permissions. | Passed |
| 11 | Economy model. | Passed |
| 12 | The impact of the exchange rate on the logic. | Passed |
| 13 | Private user data leaks. | Passed |
| 14 | Malicious Event log. | Passed |
| 15 | Scoping and Declarations. | Passed |
| 16 | Uninitialized storage pointers. | Passed |
| 17 | Arithmetic accuracy. | Passed |
| 18 | Design Logic. | Passed |
| 19 | Cross-function race conditions. | Passed |
| 20 | Safe Zeppelin module. | Passed |
| 21 | Fallback function security. | Passed |

Manual Audit:

For this section the code was tested/read line by line by our developers. We also used Remix IDE's JavaScript VM and Kovan networks to test the contract functionality.

Automated Audit

Remix Compiler Warnings

It throws warnings by Solidity's compiler. If it encounters any errors the contract cannot be compiled and deployed. No issues found.

Owner privileges

- Transfers ownership of the contract to a new account (`newOwner`).
- Owner entitled to change tax fee
- Owner can exclude from fees
- Owner can include in Fees
- Owner entitled to exclude from reward
- Owner entitled to include in reward
- Owner can renounce ownership
- Owner can set swap and liquify enabled
- Owner can make claim tokens

Conclusion

Smart contracts do not contain any high severity issues!

Note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

Implemented events

Approval(address,address,uint256)
OwnershipTransferred(address,address)
Transfer(address,address,uint256)
PairCreated()
Mint(address,uint,uint)
Burn(address,uint,uint)
Swap(address,uint,uint)
Sync(uint112,uint112)

Implemented functions

transfer(address,uint256)
lock(uint256)
allowance(address,address)
transferOwnership(address)
owner()
symbol()
decreaseAllowance(address,uint256)
unlock()
balanceOf(address)
renounceOwnership()
increaseAllowance(address,uint256)
claimTokens()
totalSupply()
transferFrom(address,address,uint256)
decimals()
name()
approve(address,uint256)
totalFees()
WETH()

Website Audit

| | |
|--|---|
| Address | https://ironfloki-metaverse.com/ |
| Domain registration | 1 years |
| Domain | Clean |
| Web server | Nginx |
| The server is located | United States |
| Server response time | 1.36 sec |
| SSL certificate | Yes |
| JavaScript errors | Not found |
| Typos, or grammatical errors | Not found |
| Issues with loading elements, code, or stylesheets | Not found |
| Malware | Not found |
| Injected spam | Not found |
| Internal server errors | Not found |
| Popups | Not found |
| Blocking files | JS: 4, CSS: 16 |
| Mobile Friendly | Yes |
| Compress CSS files | Optimized |
| Compress JS files | Optimized |
| Image compression | Optimized |
| Visible content | Optimized |
| Social Media/contacts | Yes |
| Roadmap | Yes |

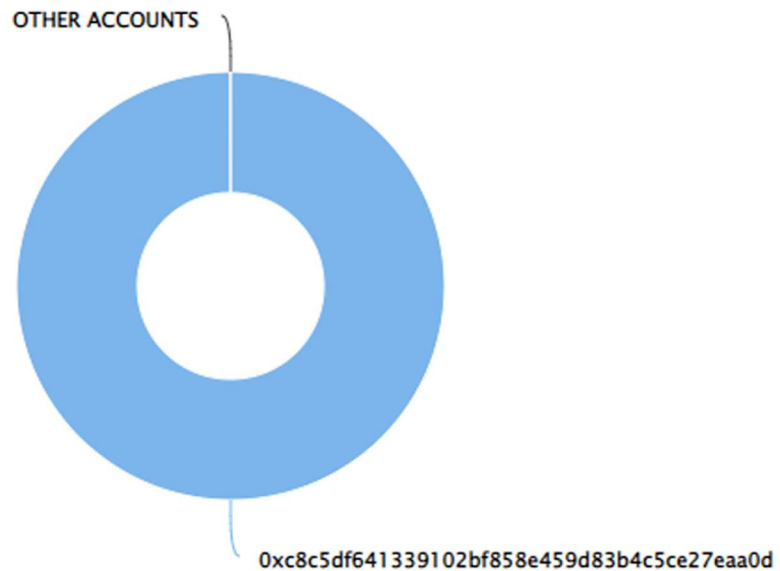
Top Token Holders

💡 The top 100 holders collectively own 100.00%
(1,000,000,000.00 Tokens) of IronFloki Metaverse NFT

💡 Token Total Supply: 1,000,000,000.00 Token | Total
Token Holders: 1

IronFloki Metaverse NFT Top 100 Token Holders

Source: BscScan.com



(A total of 1,000,000,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000.00 token)

The token is at the presale stage at the time of the audit.

At the time of the audit:

100% tokens are in the wallet 0xc8c5df641339102bf858e459d83b4c5ce27eaa0d

Do your own research and ask the current owner about it

KYC/Doxx

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THANK YOU!