



SMART CONTRACT SECURITY AUDIT

WATCHTOWER

AUDIT DETAILS



Project Name

MiniFloki



Contract address

0x5ee57424151d7256739A6E3386561F62D9f6EB05



Deployer Address:

0xEe0f8A343BcdAb4aA4eb56BDE9B8C088588A65F8



Blockchain

Binance Smart Chain



Project website:

<https://minifloki.io/>



DISCLAIMER

Watchtower has completed this report to provide a summary of the Smart Contract functions, and any security, dependency or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as at the date of this report. In order to understand the full scope of our analysis, it is vital for you to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against Watchtower or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your own independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

DISCLAIMER: By perusing this report or any portion of it, you concur to the terms of this disclaimer. In the unlikely situation where you do not concur to the terms, you should immediately terminate reading this report, and erase and discard any and all duplicates of this report downloaded and/or printed by you. This report is given for data purposes as it were and on a non-reliance premise, and does not constitute speculation counsel. No one should have any right to depend on the report or its substance, and Watchtower and its members (including holding companies, shareholders, backups, representatives, chiefs, officers and other agents) Watchtower and its subsidiaries owe no obligation of care towards you or any other person, nor does Watchtower make any guarantee or representation to any individual on the precision or completeness of the report.

ABOUT THE AUDITOR:

Watchtower is an Anti-Scam Token Utility which reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity.

Watchtowers Development Team consists of a number of Smart Contract creators, Auditors Developers and Blockchain experts.

Watchtowers Website Scanner reviews a number of Risk factors to provide an adequate Risk summary of token projects.

In Addition to this the team also helps with Creation of Smart Contracts for legitimate projects, Audits and Promotion.





OVERVIEW

Watchtower was commissioned by MiniFloki to complete a Smart Contract audit.

The objective of the Audit is to achieve the following:

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

DISCLAIMER: This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, All investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)



SMART CONTRACT REVIEW



Contract Created on the 16th May 2021

Contract name	MiniFloki
Contract address	0x5ee57424151d7256739A6E3386561F62D9f6EB05
Total supply	1,000,000,000,000,000
Token ticker	MiniFloki
Decimals	9
Token holders	4634
Transactions count	62,352
Top 5 holders dominance	17.38% Burn Adjusted
Tax fee	15%
Total fees	15% ~ BUY / SELL
Contract deployer address	0xEe0f8A343BcdAb4aA4eb56BDE9B8C088588A65F8
Contract's current owner address	0x2695057d738dabd5857c03334f5f4a67e829f75c



Project Overview

Project Details:

MiniFloki is a meme coin inspired by the popular Floki token made famous by Elon Musk.

MiniFloki sends Floki rewards right to your wallet automatically just by holding MiniFloki.

Tokenomics:

Starting Supply: 10,000,000,000,000 (10 Trillion)

15% Tax for Buys and Sells comprising of:

9% Buy Back

5% Floki Rewards to holders

1% Auto Liquidity

Team Review:

Watchtower reviewed a number of factors including the teams background and Cryptocurrency experience, social media interaction and availability, project momentum, token risks and community trust score.

The MiniFloki ownership has been transferred to a new Owner who requested an audit to ensure the safety of the contract.

The team has sound Cryptocurrency knowledge and have conveyed integrity in their dealings.



CONTRACT FUNCTIONS DETAILS

Functions (Public)

This contract has 39 available public functions which can be viewed on BSC Scan or through a DAPP.

LINK

<https://bscscan.com/address/0x5ee57424151d7256739a6e3386561f62d9f6eb05#writeContract>

Function risks identified:

- removeDividendBalance allows Owner can set to 0 the rewards of any address
- setMaxTxAmount allows the Owner to set a maxTxAmount very low, near 0. This could block all transfers.
- Remove Sniper allows the owner to blacklist address.

The contract also has an exclude from fees function but does not have an include in fees function which means the owner needs to be careful of which addresses are excluded as it cannot be reversed. In addition to this the more addresses that are excluded the more Gas is used increasing the fees for transactions.



Contract Stress Test

Imported Libraries / Interfaces

- Context
- Ownable
- IERC20
- IERC20 Metadata
- DividendPayingTokenOptionalInterface
- DividendPayingTokenInterface
- SafeMathInt
- SafeMathUint
- SafeMath
- ERC20
- DividendPayingToken (<https://github.com/roger-wu>) + edits
- IUniswapV2Router01
- IUniswapV2Router02
- IUniswapV2Factory
- IUniswapV2Pair

Overview

1. ADDITION OF COMMENTS:	10
2. CALL STACK DEPTH ATTACK:	10
3. TIME STAMP DEPENDENCY:	10
4. PARTY MULTISIG BUG:	10
5. USE OF LIBRARIES/DEPENDENCIES (FROM TRUSTED SOURCES):	10
a. TRANSACTION-ORDERING DEPENDENCY:	10
6. ACCESS CONTROL AND AUTHORIZATION:	10
7. REENTRANCY ATTACKS:	10
8. ERC/BEP STANDARD VIOLATIONS:	10
9. USAGE OF VISIBILITY LEVELS:	10



ISSUES CHECKING STATUS



Issue description	Checking status
1. Compiler errors.	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



Issue description	Checking status
11. Economy model of the contract.	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 Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed



SECURITY ISSUES



High Severity Issues

- removeDividendBalance allows Owner to remove the rewards of any address- can be associated with stopping snipers



Medium Severity Issues

- setMaxTxAmount allows the Owner to set a maxTxAmount very low, near 0. This could block all transfers.



Low Severity Issues

Nil



CONCLUSION

Watchtower reviewed MiniFloki's deployed and verified contract to conduct this audit.

Watchtower is satisfied that the contract has no malicious coding and that no severe issues have been found.

Watchtower did find that the previous owner was identified to possibly have been involved in other projects with a history of airdropping tokens to themselves to be sold off.

The MiniFloki contract was reviewed to ensure this could no longer happen and a number of wallets were requested to be blacklisted to ensure it would not occur in future with MiniFloki.

Watchtower Disclaimer:

Please check the disclaimer page and note, this Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or in any way provide financial advice, please do your own research. By reading this report you accept and agree to the disclaimer and understand investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)

Contact Us

 @Watchtower_WTW

 Watchtower-WTW

 Watchtowercrypto

