



Smart Contract Audit

FOR

Mrs Floki

DATED : 16 Apr 23'



AUDIT SUMMARY

Project name – Mrs Floki

Date: 16 April, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: **Passed**

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	1	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- BSC Test Network:

all tests were done on BSC Test network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/token/0x8c894d73d90d383aed1cac1e54e5559c7cb86e23#code>



Token Information

Token Name : Mrs Floki

Token Symbol: MFloki

Decimals: 9

Token Supply: 1,000,000,000,000,000

Token Address:

0x6f7BbEc92324D359DCa4754c0E7026b401C4C369

Checksum:

07e4cb58d75dab187fbbcb0134b8b8c89da70ab8

Owner:

0x74133652573C748dBc9ED66BAf5F944783314255
(at time of audit)

Deployer:

0x9ff5037b13Df356A3737097c8f16712F4EA864D0



TOKEN OVERVIEW

Fees:

Buy Fees: up to 12%

Sell Fees: up to 12%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: including and excluding form fee -
changing swap threshold - modifying fees



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
 - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
 - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
 - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
 - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
-

VULNERABILITY CHECKLIST

- | | |
|--|---|
|  Return values of low-level calls |  Gasless Send |
|  Private modifier |  Using block.timestamp |
|  Multiple Sends |  Re-entrancy |
|  Using Suicide |  Tautology or contradiction |
|  Gas Limitand Loops |  Timestamp Dependence |
|  Address hardcoded |  Revert/require functions |
|  Exception Disorder |  Use of tx.origin |
|  Using inline assembly |  Integer overflow/underflow |
|  Divide before multiply |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3 |
|  Compiler version not fixed |  Using throw |
-



CLASSIFICATION OF RISK

Severity

Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization / Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

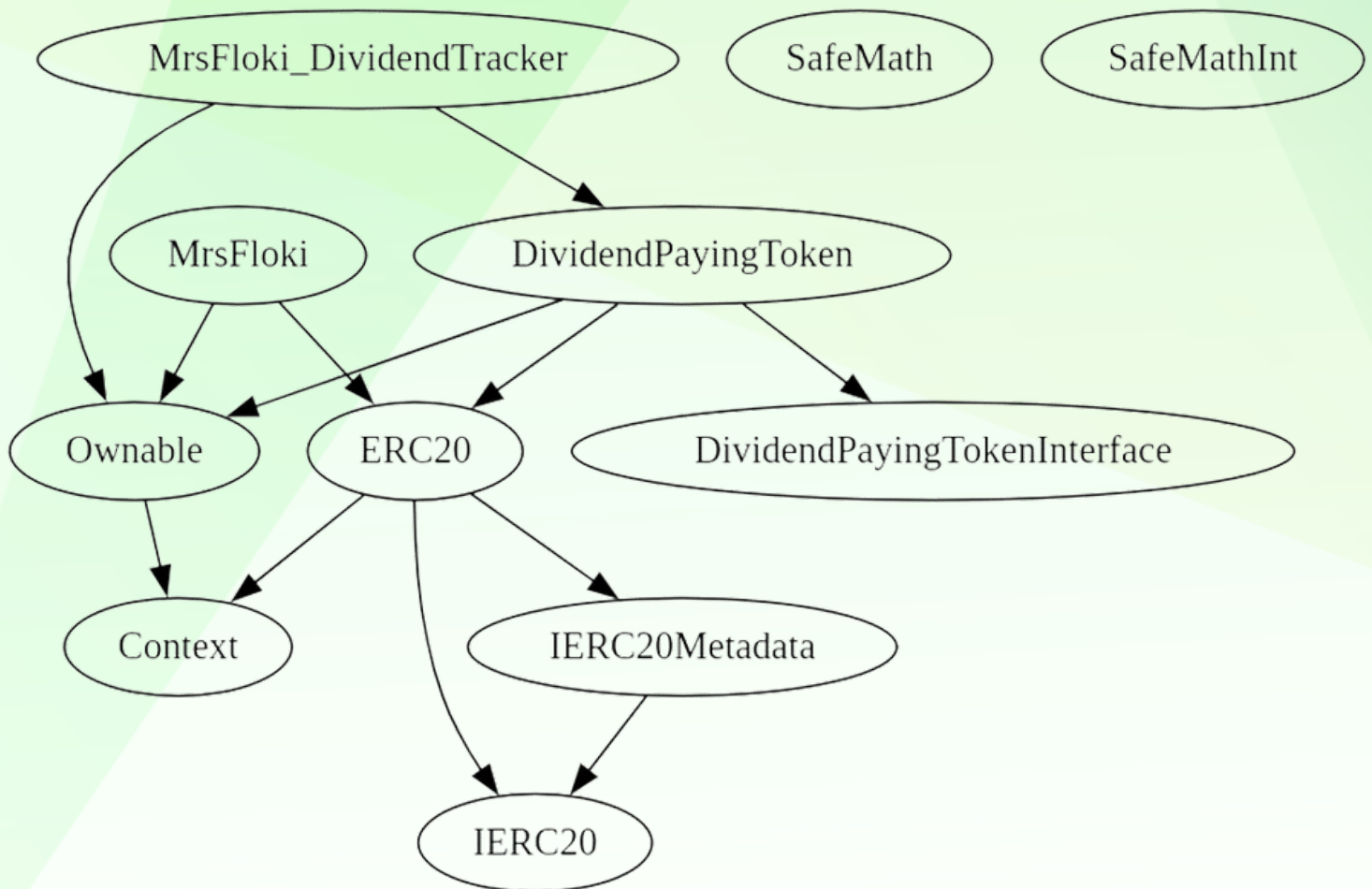
Findings

Severity

Found

◆ Critical	0
◆ High-Risk	1
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- Owner is able to set buy/sell fees more than 12% each
 - Owner is not able to set transfer taxes (0% forever)
 - Owner is not able to set max buy/sell/transfer/hold amount
 - Owner is not able to blacklist an arbitrary wallet
 - Owner is not able to disable trades
 - Owner is not able to mint new tokens
-

CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context Implementation					
L	_msgSender	Internal	🔒		
L	_msgData	Internal	🔒		
IERC20 Interface					
L	totalSupply	External	!		NO!
L	balanceOf	External	!		NO!
L	transfer	External	!	🛑	NO!
L	allowance	External	!		NO!
L	approve	External	!	🛑	NO!
L	transferFrom	External	!	🛑	NO!
IERC20Metadata Interface IERC20					
L	name	External	!		NO!
L	symbol	External	!		NO!
L	decimals	External	!		NO!
ERC20 Implementation Context, IERC20, IERC20Metadata					
L	<Constructor>	Public	!	🛑	NO!
L	name	Public	!		NO!
L	symbol	Public	!		NO!
L	decimals	Public	!		NO!
L	totalSupply	Public	!		NO!
L	balanceOf	Public	!		NO!
L	transfer	Public	!	🛑	NO!
L	allowance	Public	!		NO!
L	approve	Public	!	🛑	NO!
L	transferFrom	Public	!	🛑	NO!
L	increaseAllowance	Public	!	🛑	NO!
L	decreaseAllowance	Public	!	🛑	NO!
L	_transfer	Internal	🔒	🛑	
L	_tokengeneration	Internal	🔒	🛑	
L	_burn	Internal	🔒	🛑	
L	_approve	Internal	🔒	🛑	
L	_beforeTokenTransfer	Internal	🔒	🛑	
SafeMath Library					
L	add	Internal	🔒		

CONTRACT ASSESMENT






















```

|  | sub | Internal | | |
|  | sub | Internal | | |
|  | mul | Internal | | |
|  | div | Internal | | |
|  | div | Internal | | |
|  | mod | Internal | | |
|  | mod | Internal | | |
|  |  |  |  |
|  |  |  |  |
| **SafeMathInt** | Library | | |
|  | mul | Internal | | |
|  | div | Internal | | |
|  | sub | Internal | | |
|  | add | Internal | | |
|  | abs | Internal | | |
|  | toUint256Safe | Internal | | |
|  |  |  |  |
| **SafeMathUint** | Library | | |
|  | toInt256Safe | Internal | | |
|  |  |  |  |
| **Ownable** | Implementation | Context | | |
|  | <Constructor> | Public | | NO |
|  | owner | Public | | NO |
|  | renounceOwnership | Public | | onlyOwner |
|  | transferOwnership | Public | | onlyOwner |
|  |  |  |  |
| **IPair** | Interface | | |
|  | sync | External | | NO |
|  |  |  |  |
| **IFactory** | Interface | | |
|  | createPair | External | | NO |
|  | getPair | External | | NO |
|  |  |  |  |
| **IRouter** | Interface | | |
|  | factory | External | | NO |
|  | WETH | External | | NO |
|  | addLiquidityETH | External | | NO |
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | NO |
|  | swapExactETHForTokens | External | | NO |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | NO |
|  |  |  |  |
| **DividendPayingTokenInterface** | Interface | | |
|  | dividendOf | External | | NO |

```

CONTRACT ASSESMENT

```

| | distributeDividends | External ! |  | NO! |
| | withdrawableDividendOf | External ! | | NO! |
| | withdrawnDividendOf | External ! | | NO! |
| | accumulativeDividendOf | External ! | | NO! |
| | | |
| **DividendPayingToken** | Implementation | ERC20, DividendPayingTokenInterface, Ownable | | |
| | <Constructor> | Public ! |  | ERC20 |
| | <Receive Ether> | External ! |  | NO! |
| | distributeDividends | Public ! |  | NO! |
| | _withdrawDividendOfUser | Internal  |  | |
| | setRewardToken | External ! |  | onlyOwner |
| | swapBnbForCustomToken | Internal  |  | |
| | dividendOf | Public ! | | NO! |
| | withdrawableDividendOf | Public ! | | NO! |
| | withdrawnDividendOf | Public ! | | NO! |
| | accumulativeDividendOf | Public ! | | NO! |
| | _transfer | Internal  |  | |
| | _tokengeneration | Internal  |  | |
| | _burn | Internal  |  | |
| | _setBalance | Internal  |  | |
| | | |
| **IterableMapping** | Library | | |
| | get | Internal  | | |
| | getIndexOfKey | Internal  | | |
| | getKeyAtIndex | Internal  | | |
| | size | Internal  | | |
| | set | Internal  |  | |
| | remove | Internal  |  | |
| | | |
| **Address** | Library | | |
| | sendValue | Internal  |  | |
| | | |
| **MrsFloki** | Implementation | ERC20, Ownable | | |
| | <Constructor> | Public ! |  | ERC20 |
| | <Receive Ether> | External ! |  | NO! |
| | updateDividendTracker | Public ! |  | onlyOwner |
| | processDividendTracker | External ! |  | NO! |
| | claim | External ! |  | NO! |
| | rescueBEP20Tokens | External ! |  | onlyOwner |
| | rescueBNB | External ! |  | NO! |
| | excludeFromFees | Public ! |  | onlyOwner |
| | excludeMultipleAccountsFromFees | Public ! |  | onlyOwner |

```

CONTRACT ASSESMENT

```

| | excludeFromDividends | External ! | 🔴 | onlyOwner |
| | setMarketingWallet | External ! | 🔴 | onlyOwner |
| | setSwapTokensAtAmount | External ! | 🔴 | onlyOwner |
| | setBuyTaxes | External ! | 🔴 | onlyOwner |
| | setSellTaxes | External ! | 🔴 | onlyOwner |
| | setSwapEnabled | External ! | 🔴 | onlyOwner |
| | enableTradingEnabled | External ! | 🔴 | onlyOwner |
| | setAntiBotBlocks | External ! | 🔴 | onlyOwner |
| | setMinBalanceForDividends | External ! | 🔴 | onlyOwner |
| | _setAutomatedMarketMakerPair | Private 🗑️ | 🔴 | |
| | setGasForProcessing | External ! | 🔴 | onlyOwner |
| | setClaimWait | External ! | 🔴 | onlyOwner |
| | getClaimWait | External ! | | NO! |
| | getTotalDividendsDistributed | External ! | | NO! |
| | isExcludedFromFees | Public ! | | NO! |
| | withdrawableDividendOf | Public ! | | NO! |
| | getCurrentRewardToken | External ! | | NO! |
| | dividendTokenBalanceOf | Public ! | | NO! |
| | getAccountDividendsInfo | External ! | | NO! |
| | getAccountDividendsInfoAtIndex | External ! | | NO! |
| | getLastProcessedIndex | External ! | | NO! |
| | getNumberOfDividendTokenHolders | External ! | | NO! |
| | _transfer | Internal 🗑️ | 🔴 | |
| | swapAndLiquify | Private 🗑️ | 🔴 | |
| | swapTokensForBNB | Private 🗑️ | 🔴 | |
| | addLiquidity | Private 🗑️ | 🔴 | |
| | | |
| **MrsFloki_DividendTracker** | Implementation | Ownable, DividendPayingToken | |
| | <Constructor> | Public ! | 🔴 | DividendPayingToken |
| | _transfer | Internal 🗑️ | | |
| | setMinBalanceForDividends | External ! | 🔴 | onlyOwner |
| | excludeFromDividends | External ! | 🔴 | onlyOwner |
| | updateClaimWait | External ! | 🔴 | onlyOwner |
| | getLastProcessedIndex | External ! | | NO! |
| | getNumberOfTokenHolders | External ! | | NO! |
| | getCurrentRewardToken | External ! | | NO! |
| | getAccount | Public ! | | NO! |
| | getAccountAtIndex | Public ! | | NO! |
| | canAutoClaim | Private 🗑️ | | |
| | setBalance | Public ! | 🔴 | onlyOwner |
| | process | Public ! | 🔴 | NO! |

```




CONTRACT ASSESMENT


| ^L | processAccount | Public ! |  | onlyOwner |

Legend

| Symbol | Meaning |

| :-----: | ----- |

|  | Function can modify state |

|  | Function is payable |



STATIC ANALYSIS

```
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#7) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in DividendPayingToken._withdrawDividendOfUser(address) (contracts/Token.sol#884-925):
- (secondSuccess) = user.call(gas: 3000, value: withdrawableDividend)() (contracts/Token.sol#899-902)
- (success) = user.call(gas: 3000, value: withdrawableDividend)() (contracts/Token.sol#911-914)
Low level call in Address.sendValue(address,uint256) (contracts/Token.sol#1121-1132):
- (success) = recipient.call(value: amount)() (contracts/Token.sol#1127)
Low level call in MrsFloki.swapAndLiquify(uint256,uint256) (contracts/Token.sol#1564-1595):
- (success) = address(dividendTracker).call(value: dividends)() (contracts/Token.sol#1590-1592)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IRouter.WETH() (contracts/Token.sol#740) is not in mixedCase
Parameter DividendPayingToken.dividendOf(address).owner (contracts/Token.sol#956) is not in mixedCase
Parameter DividendPayingToken.withdrawableDividendOf(address).owner (contracts/Token.sol#964) is not in mixedCase
Parameter DividendPayingToken.withdrawDividendOf(address).owner (contracts/Token.sol#973) is not in mixedCase
Parameter DividendPayingToken.accumulativeDividendOf(address).owner (contracts/Token.sol#984) is not in mixedCase
Constant DividendPayingToken.magnitude (contracts/Token.sol#830) is not in UPPER_CASE_WITH_UNDERSCORES
Parameter MrsFloki.setBuyTaxes(uint256,uint256,uint256).rewards (contracts/Token.sol#1320) is not in mixedCase
Parameter MrsFloki.setBuyTaxes(uint256,uint256,uint256).marketing (contracts/Token.sol#1321) is not in mixedCase
Parameter MrsFloki.setBuyTaxes(uint256,uint256,uint256).liquidity (contracts/Token.sol#1322) is not in mixedCase
Parameter MrsFloki.setSellTaxes(uint256,uint256,uint256).rewards (contracts/Token.sol#1332) is not in mixedCase
Parameter MrsFloki.setSellTaxes(uint256,uint256,uint256).marketing (contracts/Token.sol#1333) is not in mixedCase
Parameter MrsFloki.setSellTaxes(uint256,uint256,uint256).liquidity (contracts/Token.sol#1334) is not in mixedCase
Parameter MrsFloki.setSwapEnabled(bool).enabled (contracts/Token.sol#1343) is not in mixedCase
Constant MrsFloki.deadWallet (contracts/Token.sol#1148-1149) is not in UPPER_CASE_WITH_UNDERSCORES
Contract MrsFloki.DividendTracker (contracts/Token.sol#1629-1882) is not in CapWords
Parameter MrsFloki.DividendTracker.getAccount(address).account (contracts/Token.sol#1713) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#15)" inContext (contracts/Token.sol#9-18)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Variable DividendPayingToken._withdrawDividendOfUser(address)._withdrawableDividend (contracts/Token.sol#887) is too similar to MrsFloki.DividendTracker.getAccount(address).withdrawableDividends (contracts/Token.sol#1721)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

MrsFloki.setGasForProcessing(uint256) (contracts/Token.sol#1380-1391) uses literals with too many digits:
- require(bool,string)(newValue >= 200000 && newValue <= 500000,GasForProcessing must be between 200,000 and 500,000) (contracts/Token.sol#1381-1384)
MrsFloki.slitherConstructorVariables() (contracts/Token.sol#1135-1627) uses literals with too many digits:
- gasForProcessing = 300000 (contracts/Token.sol#1165)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

SafeMathInt.MAX_INT256 (contracts/Token.sol#594) is never used in SafeMathInt (contracts/Token.sol#592-649)
MrsFloki.currentRewardToken (contracts/Token.sol#1154) is never used in MrsFloki (contracts/Token.sol#1135-1627)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

MrsFloki.currentRewardToken (contracts/Token.sol#1154) should be constant
MrsFloki.launchtax (contracts/Token.sol#1168) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

DividendPayingToken.router (contracts/Token.sol#832) should be immutable
MrsFloki.pair (contracts/Token.sol#1139) should be immutable
MrsFloki.router (contracts/Token.sol#1138) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**Result => A static analysis of contract's source code has been performed using slither,
No major issues were found in the output**



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x62dbbdbc268d0335fd13e1a0ecbd6a99321b887bc3cad7431401073638e41d36>

2- Buying when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x4e5f07612fe7d835d25658400a1032babb2ebd425ac2f027b6a1d1b3399274bf>

3- Selling when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x3b9767e72260bab4c6c637734f02a7259f2951dd403d017e0ee746ae20fd809a>

4- Transferring when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x0050114501c083fad6fbd07169414b0360477468bc4959d7af2da47dce867cb2>

5- Buying when not excluded (upto 12% tax) (passed):

<https://testnet.bscscan.com/tx/0xf6659419519988afb0969aecfc3e5f3c20abb7a403c444541d6fc40a7367d2da>

6- Selling when not excluded (upto 12% tax) (passed):

<https://testnet.bscscan.com/tx/0xb6b961d6abffa494316a9ee0c53225f88e518191283c2d01f3e485b939e8d7a2>



FUNCTIONAL TESTING

7- Transferring when not excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x363659da8faee224c833a31a831a77eb0a82f679d82b2119be567e41ef3eb1ac>

8- Internal swap (passed):

Marketing wallet received BNB

<https://testnet.bscscan.com/address/0xa2c0c1887972f6c62a1d12326f5f308ded7ffe46#internaltx>

9- Reflections (passed):

<https://testnet.bscscan.com/tx/0xb6b961d6abffa494316a9ee0c53225f88e518191283c2d01f3e485b939e8d7a2>

10- Auto liquidity (passed):

<https://testnet.bscscan.com/tx/0xb6b961d6abffa494316a9ee0c53225f88e518191283c2d01f3e485b939e8d7a2>

MANUAL TESTING

Centralization - Owner Must Enable Trades

Severity: High / Informational

Function: enableTradingEnabled

Lines: 1157

Status: Not Resolved

Overview:

The owner is required to enable trading for investors. If trading remains disabled, token holders will not have the ability to buy, sell, or transfer their tokens.

```
function enableTradingEnabled() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

Recommendation:

While the presence of this function is considered a feature rather than a flaw, it is crucial to highlight the centralization risk it inherently poses. To address this issue and ensure the enablement of trades, one possible solution would be to transfer the contract's ownership to a trusted third party, such as a Pinksale Safu developer. This would help mitigate the centralization risk associated with this function.



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