



Smart Contract Audit

FOR

Baby Floki2.0

DATED : 11 July 23'

FUNCTIONAL TESTING

Centralization – Enabling Trades

Severity: **High**

function: enableTrading

Status: Not Resolved

Overview:

Owner of the contract must enable trades manually for investors, otherwise no one would be able to buy/sell/transfer their tokens.

```
function enableTrading() public onlyOwner {  
    tradingOpen = true;  
}
```

Suggestion

Its suggested to either enable trades prior to presale, or transfer ownership of the contract to a certified pinsksale safu developer to guearantee enabling of trades.



AUDIT SUMMARY

Project name – Baby Floki2.0

Date: 11 July, 2023

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

Audit Status: **Passed with High Risk**

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 conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither :

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

<https://testnet.bscscan.com/token/0x394034d387179EE95Acb15fB7ACff6f02E7B5E7b>



Token Information

Token Name : Baby Floki2.0

Token Symbol: BABY FLOKI2.0

Decimals: 9

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

Token Address:

0x89B840668848fa5fAcbb7e18B874aDD835d8E101

Checksum:

7c4a5e21f7eee42445f904ea4b19498c4864a85b

Owner:

0xe970045CF57c76f4389570Cb911aE33D06A636f9
(at time of writing the audit)

Deployer:

0xe970045CF57c76f4389570Cb911aE33D06A636f9



TOKEN OVERVIEW

Fees:

Buy Fees: 0-10%

Sell Fees: 0-10%

Transfer Fees: 0%

Fees Privilege: No Fees

Ownership: owned

Minting: none

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges:- Initial distribution of the tokens

- Modifying fees
 - enabling trades
-

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 change fees in range 0-10% for buy and sells (0% transfer tax)
 - Owner is not able to blacklist an arbitrary address.
 - Owner is not able to disable trades
 - Owner is not able to limit buy/sell/transfer/wallet amounts
 - Owner is not able to mint new tokens
 - Owner must enable trades manually
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
IERC20 Interface					
└	totalSupply	External	!		NO !
└	balanceOf	External	!		NO !
└	transfer	External	!	●	NO !
└	allowance	External	!		NO !
└	approve	External	!	●	NO !
└	transferFrom	External	!	●	NO !
Token Interface					
└	transferFrom	External	!	●	NO !
└	transfer	External	!	●	NO !
IUniswapV2Factory Interface					
└	createPair	External	!	●	NO !
IUniswapV2Router02 Interface					
└	swapExactTokensForETHSupportingFeeOnTransferTokens	External	!	●	NO !
└	factory	External	!		NO !
└	WETH	External	!		NO !
└	addLiquidityETH	External	!	💰	NO !
Context Implementation					
└	_msgSender	Internal	🔒		
SafeMath Library					
└	add	Internal	🔒		
└	sub	Internal	🔒		
└	sub	Internal	🔒		
└	mul	Internal	🔒		
└	div	Internal	🔒		
└	div	Internal	🔒		
Ownable Implementation Context					
└	<Constructor>	Public	!	●	NO !
└	owner	Public	!		NO !
└	renounceOwnership	Public	!	●	onlyOwner
└	transferOwnership	Public	!	●	onlyOwner
Babyfloki2 Implementation Context, IERC20, Ownable					
└	<Constructor>	Public	!	●	NO !

CONTRACT ASSESMENT

		name		Public	!		NO	!	
		symbol		Public	!		NO	!	
		decimals		Public	!		NO	!	
		totalSupply		Public	!		NO	!	
		balanceOf		Public	!		NO	!	
		transfer		Public	!		●	NO	!
		allowance		Public	!		NO	!	
		approve		Public	!		●	NO	!
		transferFrom		Public	!		●	NO	!
		tokenFromReflection		Private	🔒				
		_approve		Private	🔒		●		
		_transfer		Private	🔒		●		
		swapTokensForEth		Private	🔒		●	lockTheSwap	
		sendETHToFee		Private	🔒		●		
		_tokenTransfer		Private	🔒		●		
		rescueForeignTokens		Public	!		●	onlyDev	
		setNewDevAddress		Public	!		●	onlyDev	
		setNewMarketingAddress		Public	!		●	onlyDev	
		_transferStandard		Private	🔒		●		
		_takeTeam		Private	🔒		●		
		_reflectFee		Private	🔒		●		
		<Receive Ether>		External	!		💰	NO	!
		_getValues		Private	🔒				
		_getTValues		Private	🔒				
		_getRValues		Private	🔒				
		_getRate		Private	🔒				
		_getCurrentSupply		Private	🔒				
		manualswap		External	!		●	NO	!
		manualsend		External	!		●	NO	!
		setFee		Public	!		●	onlyDev	
		enableTrading		Public	!		●	onlyOwner	
		toggleSwap		Public	!		●	onlyDev	
		excludeMultipleAccountsFromFees		Public	!		●	onlyOwner	

Legend

Symbol	Meaning
:-----: -----	
●	Function can modify state
💰	Function is payable



STATIC ANALYSIS

```
Reentrancy in Babyflok12.transferFrom(address,address,uint256) (contracts/Token.sol#221-229):
  External calls:
    - _transfer(sender,recipient,amount) (contracts/Token.sol#222)
      - _developmentAddress.transfer(amount.div(2)) (contracts/Token.sol#294)
      - _marketingAddress.transfer(amount.div(2)) (contracts/Token.sol#295)
  State variables written after the call(s):
    - _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (contracts/Token.sol#223-227)
    - _allowances[owner][spender] = amount (contracts/Token.sol#240)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (contracts/Token.sol#241)
    - _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (contracts/Token.sol#223-227)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-4

Variable Babyflok12._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#326) is too similar to Babyflok12._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#326)
Variable Babyflok12._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#374) is too similar to Babyflok12._getTValues(uint256,uint256,uint256).tTransferAmount (contracts/Token.sol#362)
Variable Babyflok12._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#326) is too similar to Babyflok12._getValues(uint256).tTransferAmount (contracts/Token.sol#349)
Variable Babyflok12._getValues(uint256).rTransferAmount (contracts/Token.sol#351) is too similar to Babyflok12._getTValues(uint256,uint256,uint256).tTransferAmount (contracts/Token.sol#362)
Variable Babyflok12._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#326) is too similar to Babyflok12._getTValues(uint256,uint256,uint256).tTransferAmount (contracts/Token.sol#362)
Variable Babyflok12._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#374) is too similar to Babyflok12._getValues(uint256).tTransferAmount (contracts/Token.sol#349)
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Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

Babyflok12.slitherConstructorConstantVariables() (contracts/Token.sol#125-429) uses literals with too many digits:
  - _tTotal = 1000000 * 10 ** 6 * 10 ** 9 (contracts/Token.sol#134)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

Babyflok12.tOwned (contracts/Token.sol#129) is never used in Babyflok12 (contracts/Token.sol#125-429)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

Babyflok12.uniswapV2Pair (contracts/Token.sol#155) should be immutable
Babyflok12.uniswapV2Router (contracts/Token.sol#154) 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

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x2b6342b2b8bbabd3bf8c4b6b647e8a18118c4d6991cd2be7ee7b8f42cc29c9d9>

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

<https://testnet.bscscan.com/tx/0xab0c641ad4fee6aa133f355518746fe9e6bd468df369ccc5abaf22f576b2655d>

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

<https://testnet.bscscan.com/tx/0x0cd43b13f65b64d5458f9af6ed0446ff0df1278b5a6ab907510dffa31d5188b3>

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

<https://testnet.bscscan.com/tx/0x0ec8271624715582d0b00f77a5e43017d6523e03afb8fc1aabfa5b241cd8b308>

5- Buying from a regular wallet (0-10% tax) (passed):

<https://testnet.bscscan.com/tx/0x17c3a02fc3596a02e25ee80d4bc3f1075d5bec0989108d35338cd2577e89e606>

6- Selling from a regular wallet (0-10% tax) (passed):

<https://testnet.bscscan.com/tx/0xc52670f931196e809a2ad3b67a1da2c26b4ee77fa111bb007cd6d20a494c4418>



FUNCTIONAL TESTING

7- Transferring from a regular wallet (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xd6557f37a6876f673f39a29a9faf2e34ecd1574ffb2485f3ca2aada82797fdb>

7- Internal swap (marketing and development wallets received BNB) (passed):

<https://testnet.bscscan.com/address/0x3fdBBcEB8D3AB94f4525D4c5884A748e8B4BD467#internaltx>

FUNCTIONAL TESTING

Centralization – Enabling Trades

Severity: **High**

function: enableTrading

Status: Not Resolved

Overview:

Owner of the contract must enable trades manually for investors, otherwise no one would be able to buy/sell/transfer their tokens.

```
function enableTrading() public onlyOwner {  
    tradingOpen = true;  
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Suggestion

Its suggested to either enable trades prior to presale, or transfer ownership of the contract to a certified pinsksale safu developer to guearantee enabling of trades.



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