



Smart Contract Audit

FOR

FLOKI CEO xAI

DATED : 13 July 23'



AUDIT SUMMARY

Project name – FLOKI CEO xAI

Date: 13 July, 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	0	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/address/0xb0a1623ede7c1e0cf881e3b70cc346efabc0df0e>



Token Information

Token Name : FLOKI CEO xAI

Token Symbol: FlokiXAI

Decimals: 18

Token Supply: 420,000,000,000,000,000

Token Address:

0xDB0d65aB38321e47cbA8f8fEcABaEa9A0b8379F9

Checksum:

fa17c9f5736affaf74cb2b9343cf49e4888f335b

Owner:

0xCe40e0A794aA63f5f10A3218aA1dE8910dEe0cc2
(at time of writing the audit)

Deployer:

0xCe40e0A794aA63f5f10A3218aA1dE8910dEe0cc2



TOKEN OVERVIEW

Fees:

Buy Fees: 0-6%

Sell Fees: 0-6%

Transfer Fees: 0-6%

Fees Privilege: no fees

Ownership: owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: no

Blacklist: No

Other Privileges: Initial distribution of the tokens
- 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

0

◆ Medium-Risk

0

◆ Low-Risk

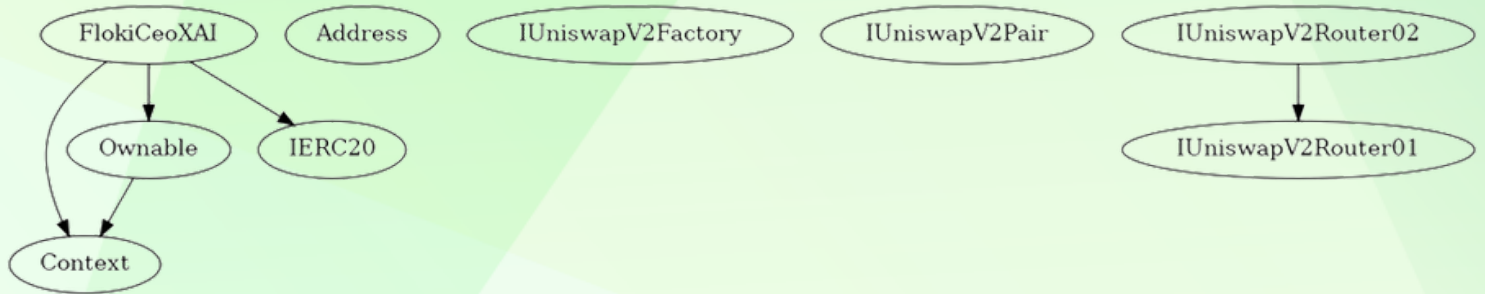
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◆ Gas Optimization / Suggestions

0



INHERITANCE TREE





POINTS TO NOTE

- Owner is able to change fees in range 0-6% 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
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context Implementation					
L	_msgSender	Internal	🔒		
L	_msgData	Internal	🔒		
Ownable Implementation Context					
L	<Constructor>	Public	!	●	NO !
L	owner	Public	!		NO !
L	renounceOwnership	Public	!	●	onlyOwner
L	transferOwnership	Public	!	●	onlyOwner
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 !
Address Library					
L	isContract	Internal	🔒		
L	sendValue	Internal	🔒	●	
L	functionCall	Internal	🔒	●	
L	functionCall	Internal	🔒	●	
L	functionCallWithValue	Internal	🔒	●	
L	functionCallWithValue	Internal	🔒	●	
L	_functionCallWithValue	Private	🔒	●	
IUniswapV2Factory Interface					
L	feeTo	External	!		NO !
L	feeToSetter	External	!		NO !
L	getPair	External	!		NO !
L	allPairs	External	!		NO !
L	allPairsLength	External	!		NO !
L	createPair	External	!	●	NO !
L	setFeeTo	External	!	●	NO !
L	setFeeToSetter	External	!	●	NO !
IUniswapV2Pair Interface					
L	name	External	!		NO !
L	symbol	External	!		NO !

CONTRACT ASSESMENT

```

└ decimals | External ! | |NO ! |
└ totalSupply | External ! | |NO ! |
└ balanceOf | External ! | |NO ! |
└ allowance | External ! | |NO ! |
└ approve | External ! | ● |NO ! |
└ transfer | External ! | ● |NO ! |
└ transferFrom | External ! | ● |NO ! |
└ DOMAIN_SEPARATOR | External ! | |NO ! |
└ PERMIT_TYPEHASH | External ! | |NO ! |
└ nonces | External ! | |NO ! |
└ permit | External ! | ● |NO ! |
└ MINIMUM_LIQUIDITY | External ! | |NO ! |
└ factory | External ! | |NO ! |
└ token0 | External ! | |NO ! |
└ token1 | External ! | |NO ! |
└ getReserves | External ! | |NO ! |
└ price0CumulativeLast | External ! | |NO ! |
└ price1CumulativeLast | External ! | |NO ! |
└ kLast | External ! | |NO ! |
└ burn | External ! | ● |NO ! |
└ swap | External ! | ● |NO ! |
└ skim | External ! | ● |NO ! |
└ sync | External ! | ● |NO ! |
└ initialize | External ! | ● |NO ! |
|||||
**IUniswapV2Router01** | Interface | |||
└ factory | External ! | |NO ! |
└ WETH | External ! | |NO ! |
└ addLiquidity | External ! | ● |NO ! |
└ addLiquidityETH | External ! | 💰 |NO ! |
└ removeLiquidity | External ! | ● |NO ! |
└ removeLiquidityETH | External ! | ● |NO ! |
└ removeLiquidityWithPermit | External ! | ● |NO ! |
└ removeLiquidityETHWithPermit | External ! | ● |NO ! |
└ swapExactTokensForTokens | External ! | ● |NO ! |
└ swapTokensForExactTokens | External ! | ● |NO ! |
└ swapExactETHForTokens | External ! | 💰 |NO ! |
└ swapTokensForExactETH | External ! | ● |NO ! |
└ swapExactTokensForETH | External ! | ● |NO ! |
└ swapETHForExactTokens | External ! | 💰 |NO ! |
└ quote | External ! | |NO ! |
└ getAmountOut | External ! | |NO ! |







































```

CONTRACT ASSESMENT

```
| | getAmountIn | External ! | |NO ! |
| | getAmountsOut | External ! | |NO ! |
| | getAmountsIn | External ! | |NO ! |
|||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● |NO ! |
| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● |NO ! |
| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● |NO ! |
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | $ |NO ! |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● |NO ! |
|||||
| **FlokiCeoXAI** | Implementation | Context, IERC20, Ownable |||
| | <Constructor> | Public ! | ● |NO ! |
| | 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 ! |
| | increaseAllowance | Public ! | ● |NO ! |
| | decreaseAllowance | Public ! | ● |NO ! |
| | isExcludedFromReward | Public ! | |NO ! |
| | totalReflectionDistributed | Public ! | |NO ! |
| | deliver | Public ! | ● |NO ! |
| | reflectionFromToken | Public ! | |NO ! |
| | tokenFromReflection | Public ! | |NO ! |
| | excludeFromReward | Public ! | ● |onlyOwner |
| | includeInReward | External ! | ● |onlyOwner |
| | <Receive Ether> | External ! | $ |NO ! |
| | clearStuckTokens | External ! | ● |NO ! |
| | updateFeeBuy | Public ! | ● |onlyOwner |
| | updateFeeSell | Public ! | ● |onlyOwner |
| | _reflectFee | Private 🔒 | ● |
| | _getValues | Private 🔒 |
| | _getTValues | Private 🔒 |
| | _getRValues | Private 🔒 |
| | _getRate | Private 🔒 |
| | _getCurrentSupply | Private 🔒 |
| | _takeLiquidity | Private 🔒 | ● |
```



CONTRACT ASSESMENT

```

|  | _takeMarketing | Private |  |  | |
|  | calculateTaxFee | Private |  | | |
|  | calculateLiquidityFee | Private |  | | |
|  | calculateMarketingFee | Private |  | | |
|  | removeAllFee | Private |  |  | |
|  | setBuyFee | Private |  |  | |
|  | setSellFee | Private |  |  | |
|  | isExcludedFromFee | Public |  | | NO  |
|  | _approve | Private |  |  | |
|  | _transfer | Private |  |  | |
|  | swapAndLiquify | Private |  |  | |
|  | swapAndSendMarketing | Private |  |  | |
|  | setSwapTokensAtAmount | External |  |  | onlyOwner |
|  | setSwapEnabled | External |  |  | onlyOwner |
|  | _tokenTransfer | Private |  |  | |
|  | _transferStandard | Private |  |  | |
|  | _transferToExcluded | Private |  |  | |
|  | _transferFromExcluded | Private |  |  | |
|  | _transferBothExcluded | Private |  |  | |
|  | excludeFromFees | External |  |  | onlyOwner |
|  | isContract | Internal |  | | |

```

Legend

Symbol	Meaning
	Function can modify state
	Function is payable



STATIC ANALYSIS

```
Variable FlokiCeoXAI._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#941) is too similar to FlokiCeoXAI._getValues(uint256).tTransferAmount (contracts/Token.sol#645)
Variable FlokiCeoXAI.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#563) is too similar to FlokiCeoXAI._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#905)
Variable FlokiCeoXAI.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#563) is too similar to FlokiCeoXAI._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#924)
Variable FlokiCeoXAI.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#563) is too similar to FlokiCeoXAI._getValues(uint256).tTransferAmount (contracts/Token.sol#655)
Variable FlokiCeoXAI._getValues(uint256).rTransferAmount (contracts/Token.sol#646) is too similar to FlokiCeoXAI._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#905)
Variable FlokiCeoXAI.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#563) is too similar to FlokiCeoXAI._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#943)
Variable FlokiCeoXAI._getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#668) is too similar to FlokiCeoXAI._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#905)
Variable FlokiCeoXAI._getValues(uint256).rTransferAmount (contracts/Token.sol#646) is too similar to FlokiCeoXAI._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#924)
Variable FlokiCeoXAI._getValues(uint256).rTransferAmount (contracts/Token.sol#646) is too similar to FlokiCeoXAI._getValues(uint256).tTransferAmount (contracts/Token.sol#655)
Variable FlokiCeoXAI._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#941) is too similar to FlokiCeoXAI._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#905)
Variable FlokiCeoXAI.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#563) is too similar to FlokiCeoXAI._getValues(uint256).tTransferAmount (contracts/Token.sol#645)
Variable FlokiCeoXAI._getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#668) is too similar to FlokiCeoXAI._getValues(uint256).tTransferAmount (contracts/Token.sol#645)
Variable FlokiCeoXAI._getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#668) is too similar to FlokiCeoXAI._getValues(uint256).tTransferAmount (contracts/Token.sol#655)
Variable FlokiCeoXAI._getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#668) is too similar to FlokiCeoXAI._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#924)
Variable FlokiCeoXAI._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#941) is too similar to FlokiCeoXAI._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#924)
Variable FlokiCeoXAI._getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#668) is too similar to FlokiCeoXAI._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#943)
Variable FlokiCeoXAI._getValues(uint256).rTransferAmount (contracts/Token.sol#646) is too similar to FlokiCeoXAI._getValues(uint256).tTransferAmount (contracts/Token.sol#645)
Variable FlokiCeoXAI._transferFromExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#922) is too similar to FlokiCeoXAI._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#905)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar
```

```
FlokiCeoXAI.DEAD (contracts/Token.sol#416) should be constant
FlokiCeoXAI._decimals (contracts/Token.sol#391) should be constant
FlokiCeoXAI._name (contracts/Token.sol#389) should be constant
FlokiCeoXAI._symbol (contracts/Token.sol#390) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
```

```
FlokiCeoXAI.DEV (contracts/Token.sol#417) should be immutable
FlokiCeoXAI._tTotal (contracts/Token.sol#394) should be immutable
FlokiCeoXAI.mk (contracts/Token.sol#414) should be immutable
FlokiCeoXAI.totalBuyFees (contracts/Token.sol#411) should be immutable
FlokiCeoXAI.totalSellFees (contracts/Token.sol#412) should be immutable
FlokiCeoXAI.uniswapV2Pair (contracts/Token.sol#420) should be immutable
FlokiCeoXAI.uniswapV2Router (contracts/Token.sol#419) 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

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0xc04efe4146309546d96287df356accbccc21498865639e9771f9bcdb9f3058d>

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

<https://testnet.bscscan.com/tx/0x765aebb8dc116c2405ce1996c0998a71069d43ea7b9010da03c297512b1ae09e>

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

<https://testnet.bscscan.com/tx/0xe847d5bc63d047a3bdd166a2b9895aa5b844008b0066d416723d7f5b8fef984>

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

<https://testnet.bscscan.com/tx/0xd453ca528a0a2a25d1040edea65ba608eca36ab01cf2511bf7402c52b2e90146>

5- Buying from a regular wallet (0-6% tax) (passed):

<https://testnet.bscscan.com/tx/0xc8a98a4aac42a6477d7ceef65e9dd2f91ee16684a8681e48c255a40bc112a5e5>

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

<https://testnet.bscscan.com/tx/0x194d45ced42d199f5880984529a40bd11b6c5848033083acf0184cd82213d701>



FUNCTIONAL TESTING

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

<https://testnet.bscscan.com/tx/0x356a482e6f9e0d0653ad8c718e88a8df6abbbaa87452a399594919d4cb55e1579>

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

<https://testnet.bscscan.com/address/0xCe40e0A794aA63f5f10A3218aA1dE8910dEe0cc2#internaltx>



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