



Smart Contract Audit

FOR

Floki GPT

DATED : 14 MAR 23'



AUDIT SUMMARY

Project name – Floki GPT

Date: 14 March, 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	1	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 Testnet network:

all tests were done on Bsc Testnet 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/0x6f198302CFd1279a23457767A9448e28567003b9>



Token Information

Token Name : Floki GPT

Token Symbol: FGPT

Decimals: 9

Token Supply: 100,000,000

Token Address:

0x5AAd894B3015904265aeac1dB64fD0f028e8448F

Checksum:

81218719a1f435bdfcbb0348646a05dbecce9e05

Owner:

0xc0F05A76e08A8fA4caf1E7B70a4B1e99793E9c85
(at time of writing the audit)



TOKEN OVERVIEW

Fees:

Buy Fees: 0% currently

Sell Fees: 10% currently

Transfer Fees: 0% currently

Fees Privilege: None

Ownership : Owned

Minting: None

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: including and excluding form fee and reflections



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

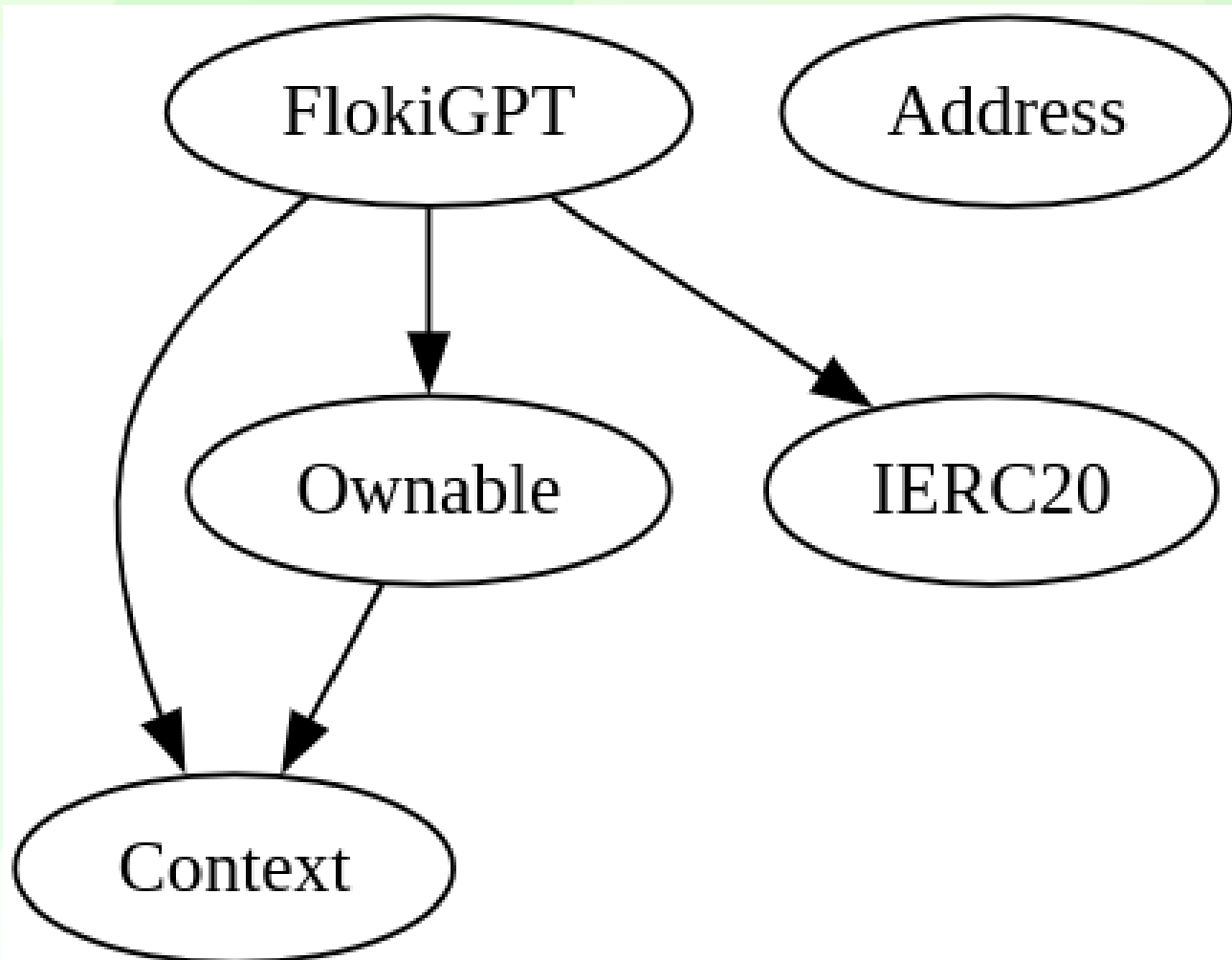
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE





POINTS TO NOTE

- **Owner is not able to change fees (0% for buy and transfers, 10% for sell)**
 - **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 🔒 | | |
|||||
| **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 ! |
```

CONTRACT ASSESMENT

```
| | symbol | External ! | | NO ! | |
| | 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 ! |
|||||
| **|UniswapV2Router01** | 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 ! |
```



CONTRACT ASSESMENT

```
| | getAmountOut | External ! | | NO ! |
| | 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 ! |
|||||
| **FlokiGPT** | 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 ! |
| | claimStuckTokens | External ! | ● | 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

| Symbol | Meaning |

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

|  | Function can modify state |

|  | Function is payable |



STATIC ANALYSIS

```
Variable FlokiGPT.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#757) is too similar to FlokiGPT.transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1117)
Variable FlokiGPT.transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1115) is too similar to FlokiGPT.transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1185)
Variable FlokiGPT.transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1137) is too similar to FlokiGPT.transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1139)
Variable FlokiGPT.getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#866) is too similar to FlokiGPT.transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1117)
Variable FlokiGPT.transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1183) is too similar to FlokiGPT.transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1139)
Variable FlokiGPT.transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1137) is too similar to FlokiGPT.transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1117)
Variable FlokiGPT.transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1115) is too similar to FlokiGPT.transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1162)
Variable FlokiGPT.getValues(uint256).rTransferAmount (contracts/Token.sol#827) is too similar to FlokiGPT.transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1162)
Variable FlokiGPT.transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1115) is too similar to FlokiGPT.getValues(uint256).tTransferAmount (contracts/Token.sol#851)
Variable FlokiGPT.getValues(uint256).rTransferAmount (contracts/Token.sol#827) is too similar to FlokiGPT.getValues(uint256).tTransferAmount (contracts/Token.sol#851)
Variable FlokiGPT.transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1137) is too similar to FlokiGPT.transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1162)
Variable FlokiGPT.transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1137) is too similar to FlokiGPT.getValues(uint256).tTransferAmount (contracts/Token.sol#851)
Variable FlokiGPT.getValues(uint256).rTransferAmount (contracts/Token.sol#827) is too similar to FlokiGPT.transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1185)
Variable FlokiGPT.transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1115) is too similar to FlokiGPT.getValues(uint256).tTransferAmount (contracts/Token.sol#822)
Variable FlokiGPT.getValues(uint256).rTransferAmount (contracts/Token.sol#827) is too similar to FlokiGPT.getValues(uint256).tTransferAmount (contracts/Token.sol#822)
Variable FlokiGPT.transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1137) is too similar to FlokiGPT.transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1185)
Variable FlokiGPT.getValues(uint256).rTransferAmount (contracts/Token.sol#827) is too similar to FlokiGPT.transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1117)
Variable FlokiGPT.transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1137) is too similar to FlokiGPT.getValues(uint256).tTransferAmount (contracts/Token.sol#822)
Variable FlokiGPT.transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1183) is too similar to FlokiGPT.transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1162)
Variable FlokiGPT.getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#866) is too similar to FlokiGPT.transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1162)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

FlokiGPT.DEAD (contracts/Token.sol#563) should be constant
FlokiGPT.decimals (contracts/Token.sol#537) should be constant
FlokiGPT.name (contracts/Token.sol#535) should be constant
FlokiGPT.symbol (contracts/Token.sol#536) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

FlokiGPT.tTotal (contracts/Token.sol#540) should be immutable
FlokiGPT.liquidityFeeonBuy (contracts/Token.sol#547) should be immutable
FlokiGPT.liquidityFeeonSell (contracts/Token.sol#548) should be immutable
FlokiGPT.marketingFeeonBuy (contracts/Token.sol#550) should be immutable
FlokiGPT.marketingFeeonSell (contracts/Token.sol#551) should be immutable
FlokiGPT.marketingWallet (contracts/Token.sol#560) should be immutable
FlokiGPT.marketingWalletTwo (contracts/Token.sol#561) should be immutable
FlokiGPT.taxFeeonBuy (contracts/Token.sol#544) should be immutable
FlokiGPT.taxFeeonSell (contracts/Token.sol#545) should be immutable
FlokiGPT.totalBuyFees (contracts/Token.sol#557) should be immutable
FlokiGPT.totalSellFees (contracts/Token.sol#558) should be immutable
FlokiGPT.uniswapV2Pair (contracts/Token.sol#546) should be immutable
FlokiGPT.uniswapV2Router (contracts/Token.sol#565) 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 issues found



FUNCTIONAL TESTING

functionality tests for ERC20 tokens includes:

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x2c430655783fc53c9133af935ab747a59f71ee11adf0453adbea14b0a8fbacb7>

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

<https://testnet.bscscan.com/tx/0x6c83f9b1366278416e59542bf80e73b63b70eca86c7da761d9fb36c8e28b9fdb>

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

<https://testnet.bscscan.com/tx/0x1a47fba14b9f10764fadb6fb06a4baa9f7355d6ee4e6ab6afa2a300f6c94a8ca>

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

<https://testnet.bscscan.com/tx/0xbefbf35052b86934ff92b30fad3bb5a18b99642b1139126a6694c6e03c82ebc5d>

5- Buying when not excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xa583990de6149e0718ba472b7718365c19f1b6a503e6ec1539ca89d62de2f703>

6- Selling when not excluded from fees (10% tax) (passed):

<https://testnet.bscscan.com/tx/0x1c9751a85dc367881634236e0664f1f601605788371860840888051070914ec8>



FUNCTIONAL TESTING

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

<https://testnet.bscscan.com/tx/0x6abc7cbb0c8806dc9eee2c1035a55333dd6e62eb8779da1508477a1d6735993c>

8- Internal swap (passed):

marketing wallet 2 received ETH

<https://testnet.bscscan.com/address/0xc0f05a76e08a8fa4caf1e7b70a4b1e99793e9c85#internaltx>

marketing wallet 1 received ETH

<https://testnet.bscscan.com/address/0xc037e1d8a5967b8948dd817f0d7cea4e24bef495#internaltx>

9- Reflections (passed):

we monitored wallet balances for testing this features, wallets received reflection after trades, they stopped getting reflections after getting excluded from rewards



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Social Media Overview

**Here are the Social Media Accounts of
Floki GPT**



https://t.me/flokiapt_ai



<https://twitter.com/FlokiGpt>



<https://flokiapt.ai/>



ABOUT AUDITACE

We specialize in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



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https://twitter.com/auditace_



<https://github.com/Audit-Ace>
