

Smart Contract Audit

FOR

LTF

DATED: 7 APR 23'



AUDIT SUMMARY

Project name - LTF

Date: 7 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	0	0	0	2
Acknowledged	0	0	0	0	0
Resolved		0	0	0	0



USED TOOLS

Tools:

- **1.Manual Review:** The code has undergone a line-by-line review by the 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.



Token Information

Name: Let Trump Free

Symbol: LTF

Decimals: 9

Network: Binance smart chain

Token Type: BEP20

Token Address:

0xb657b1aC4C5d5b4111261AE654c6F66DB5Bca9b8

Owner:

0x0a02cc8161F97D0fcBFbF4A58FCCAe194064926B (at time of audit)

Deployer:

0x0a02cc8161F97D0fcBFbF4A58FCCAe194064926B



Token Information

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 10%

Fees Privilige: None

Ownership: Owner

Minting: No

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: Including in fees, exluding from fees, including in reflections, excluding from 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-byline 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 isexercised 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





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization
 /Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

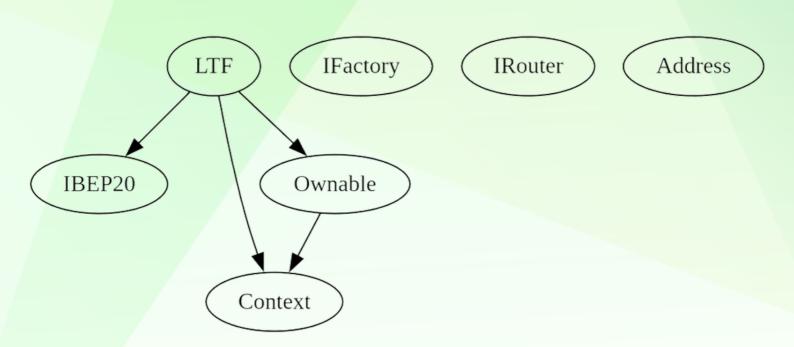
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
Gas Optimization /Suggestions	2



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to modify fees (10% for each one)
- 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
        **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**IBEP20** | 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 |
**Context** | Implementation | ||
| L | msgSender | Internal | | |
| L | msgData | Internal | |
| **Ownable** | Implementation | Context |||
 L | <Constructor> | Public | NO |
 L | owner | Public | NO |
 L | renounceOwnership | Public | | onlyOwner |
 L | setOwner | Private | |
| **IFactory** | Interface | |||
| L | createPair | External | NO |
| **IRouter** | Interface | |||
| L | factory | External | NO |
| L | WETH | External | NO
| L | addLiquidityETH | External | | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | NO |
| **Address** | Library | |||
| L | sendValue | Internal | |
| **LTF** | Implementation | Context, IBEP20, Ownable |||
 L | <Constructor> | Public | NO |
 L | name | Public | | NO |
 L | symbol | Public | NO |
 L | decimals | Public | NO |
 L | total Supply | Public | NO |
 L | balanceOf | Public | NO |
 L | allowance | Public | NO |
 L | approve | Public | NO |
```



CONTRACT ASSESMENT

```
L | transferFrom | Public | NO |
 L | increaseAllowance | Public | NO |
 L | decreaseAllowance | Public | NO |
 L | transfer | Public | NO |
 L | isExcludedFromReward | Public | NO |
 | reflectionFromToken | Public | NO |
 L | tokenFromReflection | Public | NO |
 | | excludeFromReward | Public | | onlyOwner |
 | includeInReward | External | onlyOwner |
 L | excludeFromFee | Public | | onlyOwner |
 | includeInFee | Public | onlyOwner |
 L | setMarketingWallet | External | | onlyOwner |
 L | setLiquidityWallet | External | | onlyOwner |
 L | isExcludedFromFee | Public | NO |
 L | reflectRfi | Private | |
 L | takeMarketing | Private | |
 L | takeLiquid | Private | |
 L | getValues | Private | |
 L | getTValues | Private | |
 L | getRValues | Private | |
 L | getRate | Private | |
 L | getCurrentSupply | Private | |
 L | approve | Private | |
 L | transfer | Private | |
 L | tokenTransfer | Private | |
 L | bulkExcludeFee | External | | onlyOwner |
 L | < Receive Ether > | External |
Legend
```

```
| Symbol | Meaning |
|:-----|
| Function can modify state |
| Function is payable |
```



STATIC ANALYSIS

```
LIF.allowance(address,address).owner (contracts/Token.sole#3=01 (function)

LOFTLapproveladdress,address.uint280).owner (contracts/Token.sole#3=01 (function)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

LIF.constructor(address).pair (contracts/Token.sole#3=01 (function)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#mostaing-zero-address-validation

LIF.constructor(address).pair (contracts/Token.sole#3=0)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#mostaing-zero-address-validation

LIF.includeInReward(address) (contracts/Token.sole#3=0)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop

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

LIF._Total (contracts/Token.sole#3=0)

LIF._Total (contracts/Token.sole#3=0)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state

- (Max - (Max & Itotal))

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state

- (Max - (Max & Itotal))

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incrrect-versions-of-solidity

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Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#increct-versions-of-solidity-naming-conventions

Reference: htt
```

Result => A static analysis of contract's source code has been performed using slither,

No issues found



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x1dffb67a7762068717da863e72b 0e7df151589b99d2bd73d43a60511466a530a

- 2- Buying when excluded from fees (0% tax) (passed):
- https://testnet.bscscan.com/tx/0x76d8dd1f970a7bfed6c14dadf1bdddc427f6db9ca08bc9483b4a01f21be56934
- 3- Selling when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x98937f0bb967da35a4eb0bddf1c72369fe3cfdf7277ddd4dd5bb8ad9a0152e6f

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

https://testnet.bscscan.com/tx/0x1ca9bd431ddeb52bd96fe50328 be923aba31ae95d27d083a5107039c9ce8d459

- 5- Buying when not excluded from fees (10% tax) (passed): https://testnet.bscscan.com/tx/0xf5c74ad279c488e1542bb2396ba2f2bd27a1361089c732e7c128712bf6b87d9d
- 6- Selling when not excluded from fees (10% tax) (passed): https://testnet.bscscan.com/tx/0x9dccbd6ba2da6b864b0e3082bfbcdd186e52b90fa909fccd3d314ac3ef117166
- 7- Transferring when not excluded from fees (10% tax) (passed): https://testnet.bscscan.com/tx/0x55a1cc2e86da32a5a5a466645d5ef8ebc1d6816e9fa701b228b2c38a3a707fb7



FUNCTIONAL TESTING

8- Reflections (passed):

Marketing and liquidity wallets received tokens, holders received reflections



MANUAL TESTING

Informational – No event emission for fee transfers

Severity: Informational

Function: _reflectRfi - _takeLiquid - _takeMarketing

Lines: 375, 380, 389 Status: No Resolved

Fees are sent to marketing, liquidity wallets, but no events are emitted.

This causes fee transfers to be hidden and hard to detect.

Recommendation:

emit a Transfer event from each function



MANUAL TESTING

Informational – Immutable tax

Severity: Informational

Function: ---

Lines: ---

Status: not resolved

Overview:

Contract has 10% tax for buy/sell/transfer actions. However this tax percentage is immutable, meaning it can not be changed later. A dynamic tax in a reasoable range is suggested as the market status is not predictable.



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