



Smart Contract Audit

FOR

Luffy op

DATED : 25 MAR 23'



AUDIT SUMMARY

Project name – Luffy op

Date: 25 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	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 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/0x7eb2bf681cc3f6055fe960053cf4dfde957988f4>



Token Information

Token Name : Luffy op

Token Symbol: Luffy op

Decimals: 9

Token Supply: 10,000,000,000,000,000,000,000,000,000

Token Address:

0xb4ef1dB8cd4969189146a17BE5874fAf7968F162

Checksum:

19ce8b1d6cbea46ac0f5ba96100710d6561d8bc9

Owner:

0x00

(renounced)



TOKEN OVERVIEW

Fees:

Buy Fees: 9%

Sell Fees: 9%

Transfer Fees: 9%

Fees Privilege: None

Ownership : Renounced

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: None (ownership renounced)



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

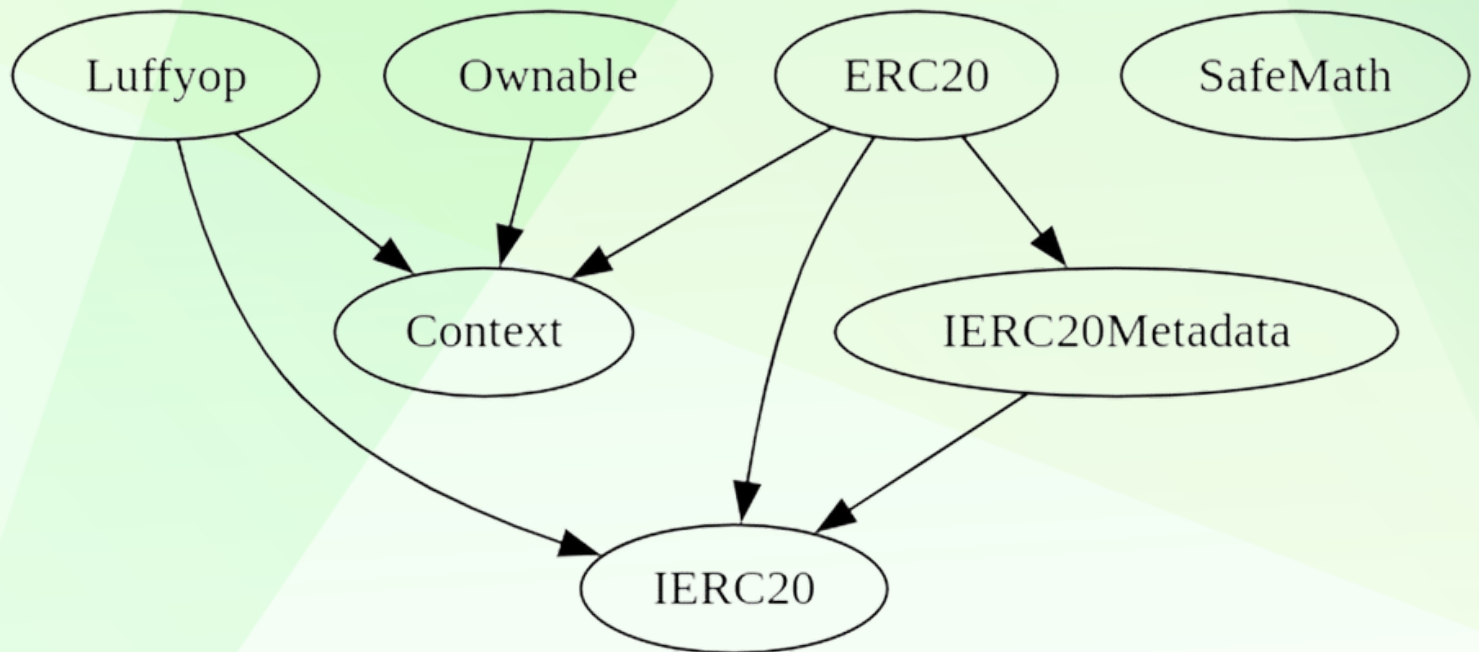
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

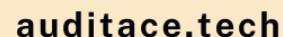
0

INHERITANCE TREE



POINTS TO NOTE

- **Ownership is renounced, meaning owner has not control over the contract functions**
 - **Owner is not able to modify buy/sell/transfer fees (9% for each)**
 - **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	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!	
SafeMath	Library				
↳	add	Internal	🔒		
↳	sub	Internal	🔒		
↳	mul	Internal	🔒		
↳	div	Internal	🔒		
↳	sub	Internal	🔒		
↳	div	Internal	🔒		
Context	Implementation				
↳	_msgSender	Internal	🔒		
↳	_msgData	Internal	🔒		
Address	Library				
↳	isContract	Internal	🔒		
↳	sendValue	Internal	🔒	!	
↳	functionCall	Internal	🔒	!	
↳	functionCall	Internal	🔒	!	
↳	functionCallWithValue	Internal	🔒	!	
↳	functionCallWithValue	Internal	🔒	!	
↳	functionStaticCall	Internal	🔒		
↳	functionStaticCall	Internal	🔒		
↳	functionDelegateCall	Internal	🔒	!	
↳	functionDelegateCall	Internal	🔒	!	
↳	_verifyCallResult	Private	🔒		
IUniswapV2Factory	Interface				
↳	feeTo	External	!	NO!	
↳	feeToSetter	External	!	NO!	
↳	getPair	External	!	NO!	
↳	allPairs	External	!	NO!	



CONTRACT ASSESMENT

```
| | allPairsLength | External ! | | NO! |
| | createPair | External ! | | NO! |
| | setFeeTo | External ! | | NO! |
| | setFeeToSetter | External ! | | NO! |
| | | |
| **IUniswapV2Pair** | Interface | | |
| | name | External ! | | NO! |
| | 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! |
| | | |
| **IUniswapV2Router01** | Interface | | |
| | factory | External ! | | NO! |
| | WETH | External ! | | NO! |
| | addLiquidity | External ! | | NO! |
| | addLiquidityETH | External ! | | NO! |
| | removeLiquidity | External ! | | NO! |
| | removeLiquidityETH | External ! | | NO! |
| | removeLiquidityWithPermit | External ! | | NO! |
```

CONTRACT ASSESMENT

```
| L | removeLiquidityETHWithPermit | External ! |  | NO! |
| L | swapExactTokensForTokens | External ! |  | NO! |
| L | swapTokensForExactTokens | External ! |  | NO! |
| L | swapExactETHForTokens | External ! |  | NO! |
| L | swapTokensForExactETH | External ! |  | NO! |
| L | swapExactTokensForETH | External ! |  | NO! |
| L | swapETHForExactTokens | External ! |  | NO! |
| L | quote | External ! | | NO! |
| L | getAmountOut | External ! | | NO! |
| L | getAmountIn | External ! | | NO! |
| L | getAmountsOut | External ! | | NO! |
| L | getAmountsIn | External ! | | NO! |
| | | | |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External ! |  | NO! |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! |  | NO! |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! |  | NO! |
| | | | |
| **Luffyop** | Implementation | Context, IERC20 | | |
| L | owner | Public ! | | NO! |
| L | renounceOwnership | Public ! |  | NO! |
| 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 | <Receive Ether> | External ! |  | NO! |
| L | _getCurrentSupply | Private  | | |
| L | _approve | Private  |  | |
| L | _transfer | Private  |  | |
| L | sendToWallet | Private  |  | |
| L | swapAndLiquify | Private  |  | lockTheSwap |
```



CONTRACT ASSESMENT

```
|  | swapTokensForBNB | Private | | |
|  | addLiquidity | Private | | |
|  | remove_Random_Tokens | Public | | NO! |
|  | _tokenTransfer | Private | | |
| | | |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
|  | <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! |
|  | _transfer | Internal | | |
|  | _mint | Internal | | |
|  | _burn | Internal | | |
|  | _approve | Internal | | |
|  | _spendAllowance | Internal | | |
|  | _beforeTokenTransfer | Internal | | |
|  | _afterTokenTransfer | Internal | | |
| | | |
| **IERC20** | Interface | | |
|  | totalSupply | External | | NO! |
|  | balanceOf | External | | NO! |
|  | transfer | External | | NO! |
|  | allowance | External | | NO! |
|  | approve | External | | NO! |
|  | transferFrom | External | | NO! |
| | | |
| **IERC20Metadata** | Interface | IERC20 | | |
|  | name | External | | NO! |
|  | symbol | External | | NO! |
|  | decimals | External | | NO! |
| | | |
| **Context** | Implementation | | |
|  | _msgSender | Internal | | |
|  | _msgData | Internal | | |
```



CONTRACT ASSESMENT

```
||||| |
| **Ownable** | Implementation | Context |||
|  | <Constructor> | Public ! |  | NO! |
|  | owner | Public ! |  | NO! |
|  | _checkOwner | Internal  |  |
|  | renounceOwnership | Public ! |  | onlyOwner |
|  | transferOwnership | Public ! |  | onlyOwner |
|  | _transferOwnership | Internal  |  |
|||||
| **SafeMath** | Library | |||
|  | tryAdd | Internal  |  |
|  | trySub | Internal  |  |
|  | tryMul | Internal  |  |
|  | tryDiv | Internal  |  |
|  | tryMod | Internal  |  |
|  | add | Internal  |  |
|  | sub | Internal  |  |
|  | mul | Internal  |  |
|  | div | Internal  |  |
|  | mod | Internal  |  |
|  | sub | Internal  |  |
|  | div | Internal  |  |
|  | mod | Internal  |  |
| Symbol | Meaning |
|:-----:|-----|
|  | Function can modify state |
|  | Function is payable |
```



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

No issues found



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding Liquidity (Passed):

liquidity added on Pancakeswap V2:

<https://testnet.bscscan.com/tx/0x500149db927f0f8aa609667f4a96a1d06f8652df2bdd41c1946c1bf49aaf77ef>

2- Buying when trading not enabled (owner%)(Passed):

<https://testnet.bscscan.com/tx/0x9263fbb988402e34832a1a54b7e6dc1362b86e690b693c254972ba90ee8ddb9f>

3- Selling when trading not enabled (0%)(Passed):

<https://testnet.bscscan.com/tx/0x4cf7fd2a3bb6f24f536c8e905021f0f2eb75262b1fa668dfe078ecbfd254b295>

4- Transferring when trading not enabled (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xe4d828bf612389f2012b4260f71a4189679b014311ac64d51e558c347d7df754>

5- Buying when trading enabled (9% tax) (passed):

<https://testnet.bscscan.com/tx/0xda4c3d6a821092ae1ee0a488e3670107645c55e5844a1bcdde0bc3238266f7d5>



FUNCTIONAL TESTING

6- Selling when trading enabled (9% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x6d84d23abc9a7bea39472cbc2a9f9d9d72df257a751da68ede8cd9219b806069>

7- Transferring when trading enabled (9% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xe0a4bd14ef2bc75f71f42763b3dd47a5af13e6bde15bf5930cd779268ba45c15>



MANUAL TESTING

No Issues Found





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