

Smart Contract Audit

FOR

MOFLIX

DATED: 31 JAN 23'



AUDIT SUMMARY

Project name - Moflix

Date: 31 January, 2023

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

Audit Status: Passed (Contract is developed by Pinksale safu dev)

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 done on BSC Testnet network, each test has its transaction has attached to it. . You can check this tests in "functionality tests" section of the report.

3- Slither: Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/token/0x71c2717dcad3 6b8cceeea75a7de28ad0a1fbb14b



Token Information

Token Name: Moflix

Token Symbol: MFX

Decimals: 18

Token Supply: 100,000,000

Token Address: Not deployed

Checksum:

F0E4C2F76C58916EC258F246851BEA091D14D4247 A2FC3E18694461B1816E13B

Deployer: not deployed

Owner: not deployed



Other Priviliges: None

TOKEN OVERVIEW

Fees:
Buy Fees: -
Sell Fees: -
Transfer Fees: -
Fees Privilige: Owner
Ownership: Owned
Minting: No mint function
Max Tx Amount/ Max Wallet Amount: No
Blacklist: No



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.

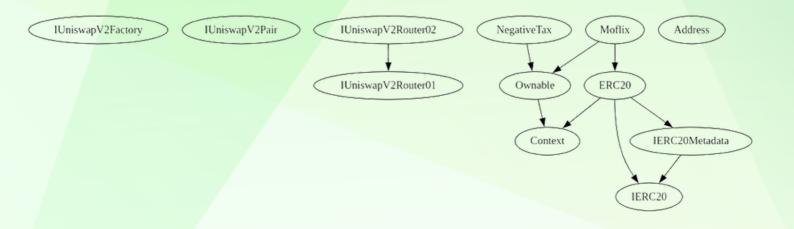
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- There is up to 5% negative tax on buys (I.e trade receives up to 5% more tokens)
- Owner is not able to set taxes over 2% (Buy + Sell = 4% maximum tax)
- · Owner is not able to blacklist an arbitrary wallet
- Owner is not able to set max buy/sell/transfer amounts
- · Owner is not able to disable trades
- · Owner is not able to mint new tokens



```
| Contract |
                Type
                              Bases
<mark>|;-----:|;|;-----:|</mark>:|;-----:|
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
| | | feeToSetter | External | | | NO
| | getPair | External | | NO | |
| | allPairs | External | | NO | |
| | allPairsLength | External | | NO | |
📙 createPair | External 📗 | 🛑 | NO 📗
📙 | setFeeTo | External 📗 | 🛑 | NO 📗
| L | setFeeToSetter | External | | ( NO | | |
| **IUniswapV2Pair** | Interface | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | NO | |
| L | DOMAIN SEPARATOR | External | | | NO | |
| L | PERMIT_TYPEHASH | External | | | NO | |
| L | nonces | External | | NO |
| L | permit | External | | | NO | |
| L | MINIMUM LIQUIDITY | External | | | NO | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | | NO | |
| L | price0CumulativeLast | External | | NO | |
| L | price1CumulativeLast | External | | NO | |
| L | kLast | External | | NO | |
| L | mint | External | | | NO | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | | NO | |
| L | initialize | External | | | NO | |
```



```
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**IUniswapV2Router01** | Interface | |||
| L | factory | External | | NO | | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | NO | |
| | removeLiquidity | External | | | NO | |
| | removeLiquidityETH | External | | | NO | |
| | removeLiquidityWithPermit | External | | | NO | |
| | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | ( NO | |
📙 | swapTokensForExactTokens | External 📗 | 🛑 | NO 🛚 |
| L | swapExactETHForTokens | External | | 🔟 | NO | |
| L | swapTokensForExactETH | External | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External L | NOL |
| L | getAmountIn | External | | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\mathbf{H}\mathbf{H}\mathbf{H}\mathbf{H}
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | | | | | | | | | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
| | | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | | | | | | | | | | | | | |
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| **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 | |
IIIIIII
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
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```



```
**Address** | Library | |||
| L | sendValue | Internal 🦲 | 🛑 | | | | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🖰 | 🛑 | |
| L | functionCallWithValue | Internal 🦲 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| | | functionStaticCall | Internal | | | | |
| | | functionStaticCall | Internal | | | | |
| L | functionDelegateCall | Internal 🦲 | 🛑 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
| L | verifyCallResult | Internal 🦰 | | |
| L | revert | Private 🦳 | | |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | |||
| L | _msgSender | Internal 🦰 | | |
| L | _msgData | Internal 🦲 | | |
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| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | (e) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
IIIIIII
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | | | |
| 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 | _transfer | Internal 🦰 | 🛑 | |
| L | _mint | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦲 | 🧓 | |
```



```
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
**NegativeTax** | Implementation | Ownable | | |
| L | claimStuckTokens | External | | 🛑 | onlyOwner |
**Moflix** | Implementation | ERC20, Ownable | | |
| L | <Constructor> | Public | | | | ERC20 |
| L | claimStuckTokens | External | | | | onlyOwner |
📙 | excludeFromNegativeTax | External 🛮 | 🛑 | onlyOwner |
| L | isExcludedFromNegativeTax | Public | | NO | | |
| L | setNegativeTaxSettings | External | | | | onlyOwner |
| L | excludeFromFees | External | | | | onlyOwner |
| L | isExcludedFromFees | Public | | NO | |
| L | updateBuyFees | External | | | | onlyOwner |
| L | updateSellFees | External | | | | onlyOwner |
| L | updateWalletToWalletTransferFee | External | | | | onlyOwner |
| L | changeMarketingWallet | External | | ( ) | onlyOwner |
| L | enableTrading | External | | | | onlyOwner |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | setSwapEnabled | External | | | | onlyOwner |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | swapAndLiquify | Private 🦳 | 🍥 | |
| L | swapAndSendMarketing | Private 🛅 | 🛑 | |
| Symbol | Meaning |
|:-----|
   | Function can modify state |
   Function is payable |
```



STATIC ANALYSIS

```
Address. FreeTibytes. String) (contracts/Audit Ace Testing soleRN-108) is never used and should be removed Address. functionCall (address.) ptytes, string) (contracts/Audit Ace Testing soleRN-108) is never used and should be removed Address. functionCall (address.) ptytes, string) (contracts/Audit Ace Testing.soleRN-108) is never used and should be removed Address. functionCall (address.) ptytes.) (contracts/Audit Ace Testing.soleRN-108) is never used and should be removed Address. functionCall (address.) ptytes.) (contracts/Audit Ace Testing.soleRN-108) is never used and should be removed Address. functionCall (address.) ptytes. (contracts/Audit Ace Testing.soleRN-108) is never used and should be removed Address. functionCall (address.) ptytes. (contracts/Audit Ace Testing.soleRN-108) is never used and should be removed Address. (address.) (address.) ptytes. (contracts/Audit Ace Testing.soleRN-108) is never used and should be removed Address. (address.) (address.)
```

Result => A static analysis of contract's source code has been performed using slither, no major issues were found



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

0- Deploying (Passed):

https://testnet.bscscan.com/tx/0x03af8f7b2548398930e16baff6d 5e73097bbafebaf0968ac755f3031c5f55841

1- Adding Liquidity (Passed):

liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x1742629e76bc3c7e5f65362645 cec3f6e2430ba3695a151974cc076bf858185f

no issue were found on adding liquidity.

2- Enabling trade for public (Passed):

https://testnet.bscscan.com/tx/0xba2b8d0f555224ce0dbdde1599 960e415cdd359a9cbe9dddd9365cdac0acc196

3- Setting buy and sell fees to max (2%) (Passed):

https://testnet.bscscan.com/tx/0x8fc1e7f70d10366015673000689 8d0dcb52c223d775758bcd478315fb42e21f7

https://testnet.bscscan.com/tx/0x1a16459b30e59f1db662d80d149 96d870191ccfe8fcbc5f569f967619ac56a5f



FUNCTIONAL TESTING

4- Buying from a non-whitelisted wallet (Passed):

https://testnet.bscscan.com/tx/0xaedb727dcee1acd54a0dff5e123 323de3ce4b77e43f3437db591c9738c61527a

negative tax tx:

https://testnet.bscscan.com/address/0x6833b95dc7c3c09824a4ab862f8b3253665d6607#internaltxns

5- Selling from a non-whitelisted wallet (Passed):

https://testnet.bscscan.com/tx/0x14d9e51910530e545e3036b50e 06ddaa416c7b161ffeeec02e495cc1af6c0c1f

6- Internal Swap (Passed):

taxes were swapped to BNB and sent to staking and marketing wallets:

https://testnet.bscscan.com/address/0x2ba274d676f6da46160a3b4f7720f27f67e6c86f#internaltx

7 - Auto Liquidity (Passed):

LP tokens generated and sent to dead wallet which can be seen here:

 $\frac{https://testnet.bscscan.com/address/0x2ba274d676f6da46160a3b}{4f7720f27f67e6c86f\#internaltx}$



FUNCTIONAL TESTING

8- Enabling negative tax (Passed):

https://testnet.bscscan.com/tx/0x2a4c50737bc1941c1a27b90f7ac 1e9dfa8cec66eef616ae7ce0b1648dc39134d



MANUAL TESTING

NO ISSUES WERE FOUND



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