AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

MYRO FLOKI

DATED : 28 Jan, 2024

AUDIT SUMMARY

Project name – MYRO FLOKI

Date: 28 Jan, 2024

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	1
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/0x2adca064c639cafdb1287b25c6ec9cbd49d9f769#code

Token Information

Token Name : MYRO FLOKI

Token Symbol: MYROF

Decimals: 18

Token Supply: 1,000,000,000

Network: BscScan

Token Type: BEP-20

Token Address:
0xa94Ab917f15542b98Ec8E8E519C26BB2a1eA8a62

Checksum:
A67acbefe2a12642d388659dffd20712

Owner:
0x03108DF0e03F47ACacB40b463bc4aF71181DbF83
(at time of writing the audit)

Deployer:
0x03108DF0e03F47ACacB40b463bc4aF71181DbF83

TOKEN OVERVIEW

Fees:

Buy Fee: 5-25%

Sell Fee: 5-25%

Transfer Fee: 0-0%

Fees Privilege: 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-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 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

✅ 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

INHERITANCE TREE
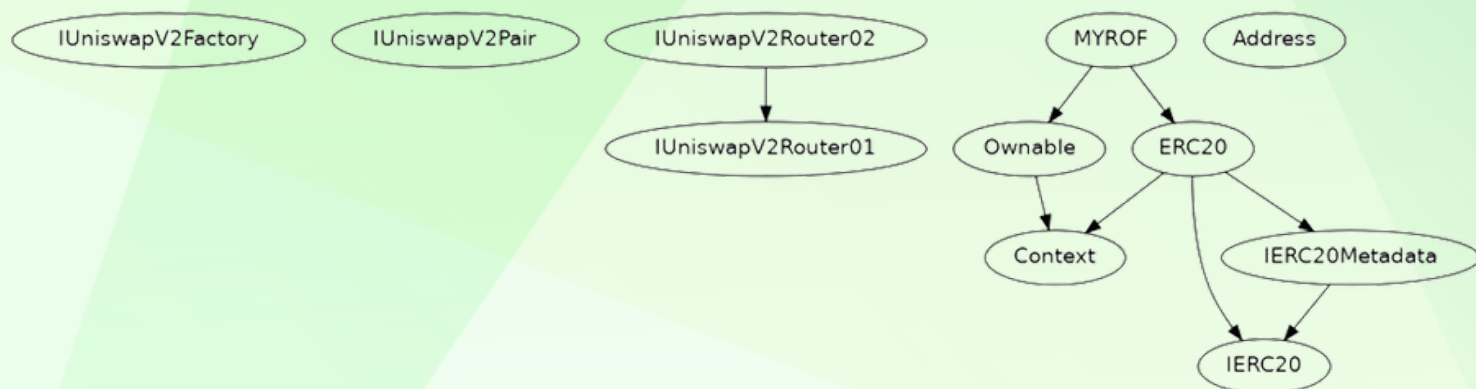
STATIC ANALYSIS

A static analysis of the code was performed using Slither.

No issues were found.

```
INFO:Detectors:
MYROF.constructor().router (MYROF.sol#701) is a local variable never initialized
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-local-variables
INFO:Detectors:
MYROF.claimStuckTokens(address) (MYROF.sol#743-752) ignores return value by address(msg.sender).sendValue(address(this).balance) (MYROF.sol#746)
MYROF.swapAndSendMarketing(uint256) (MYROF.sol#874-893) ignores return value by address(marketingWallet).sendValue(newBalance) (MYROF.sol#890)
MYROF.swapAndSendRewards(uint256) (MYROF.sol#895-914) ignores return value by address(rewardsWallet).sendValue(newBalance) (MYROF.sol#911)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return
INFO:Detectors:
Reentrancy in MYROF._transfer(address,address,uint256) (MYROF.sol#807-863):
        External calls:
        - swapAndSendMarketing(marketingTokens) (MYROF.sol#834)
                - (success) = recipient.call{value: amount}() (MYROF.sol#282)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (MYROF.sol#881-886)
                - address(marketingWallet).sendValue(newBalance) (MYROF.sol#890)
        - swapAndSendRewards(RewardsTokens) (MYROF.sol#839)
                - (success) = recipient.call{value: amount}() (MYROF.sol#282)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (MYROF.sol#902-907)
                - address(rewardsWallet).sendValue(newBalance) (MYROF.sol#911)
        External calls sending eth:
        - swapAndSendMarketing(marketingTokens) (MYROF.sol#834)
                - (success) = recipient.call{value: amount}() (MYROF.sol#282)
        - swapAndSendRewards(RewardsTokens) (MYROF.sol#839)
                - (success) = recipient.call{value: amount}() (MYROF.sol#282)
        Event emitted after the call(s):
        - SwapAndSendRewards(tokenAmount,newBalance) (MYROF.sol#913)
                - swapAndSendRewards(RewardsTokens) (MYROF.sol#839)
```

```
INFO:Detectors:
Address._revert(bytes,string) (MYROF.sol#450-462) uses assembly
        - INLINE ASM (MYROF.sol#455-458)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage
INFO:Detectors:
Address._revert(bytes,string) (MYROF.sol#450-462) is never used and should be removed
Address.functionCall(address,bytes) (MYROF.sol#304-306) is never used and should be removed
Address.functionCall(address,bytes,string) (MYROF.sol#314-320) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256) (MYROF.sol#333-339) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256,string) (MYROF.sol#347-356) is never used and should be removed
Address.functionDelegateCall(address,bytes) (MYROF.sol#389-391) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (MYROF.sol#399-406) is never used and should be removed
Address.functionStaticCall(address,bytes) (MYROF.sol#364-366) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (MYROF.sol#374-381) is never used and should be removed
Address.isContract(address) (MYROF.sol#255-261) is never used and should be removed
Address.verifyCallResult(bool,bytes,string) (MYROF.sol#438-448) is never used and should be removed
Address.verifyCallResultFromTarget(address,bool,bytes,string) (MYROF.sol#414-430) is never used and should be removed
Context._msgData() (MYROF.sol#470-473) is never used and should be removed
ERC20._burn(address,uint256) (MYROF.sol#624-639) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
Pragma version0.8.17 (MYROF.sol#5) allows old versions
solc-0.8.17 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
Low level call in Address.sendValue(address,uint256) (MYROF.sol#279-284):
        - (success) = recipient.call{value: amount}() (MYROF.sol#282)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (MYROF.sol#347-356):
        - (success,returndata) = target.call{value: value}(data) (MYROF.sol#354)
Low level call in Address.functionStaticCall(address,bytes,string) (MYROF.sol#374-381):
        - (success,returndata) = target.staticcall(data) (MYROF.sol#379)
Low level call in Address.functionDelegateCall(address,bytes,string) (MYROF.sol#399-406):
        - (success,returndata) = target.delegatecall(data) (MYROF.sol#404)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
```

STATIC ANALYSIS

```
INFO:Detectors:
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (MYROF.sol#35) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (MYROF.sol#36) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (MYROF.sol#53) is not in mixedCase
Function IUniswapV2Router01.WETH() (MYROF.sol#73) is not in mixedCase
Parameter MYROF.updateBuyFees(uint256,uint256)._marketingFeeOnBuy (MYROF.sol#767) is not in mixedCase
Parameter MYROF.updateBuyFees(uint256,uint256)._RewardsFeeOnBuy (MYROF.sol#767) is not in mixedCase
Parameter MYROF.updateSellFees(uint256,uint256)._marketingFeeOnSell (MYROF.sol#778) is not in mixedCase
Parameter MYROF.updateSellFees(uint256,uint256)._RewardsFeeOnSell (MYROF.sol#778) is not in mixedCase
Parameter MYROF.changeMarketingWallet(address)._marketingWallet (MYROF.sol#789) is not in mixedCase
Parameter MYROF.changeRewardsWallet(address)._RewardsWallet (MYROF.sol#797) is not in mixedCase
Variable MYROF.RewardsFeeOnBuy (MYROF.sol#677) is not in mixedCase
Variable MYROF.RewardsFeeOnSell (MYROF.sol#678) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
INFO:Detectors:
Redundant expression "this (MYROF.sol#471)" inContext (MYROF.sol#465-474)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
INFO:Detectors:
Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (MYROF.sol#78) is too similar to IU
niswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (MYROF.sol#79)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar
INFO:Detectors:
MYROF.uniswapV2Pair (MYROF.sol#670) should be immutable
MYROF.uniswapV2Router (MYROF.sol#669) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
INFO:Slither:MYROF.sol analyzed (11 contracts with 93 detectors), 46 result(s) found
```

FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0x45b19f7337f57bb0bef42b473b45dc03e75
9b52c004977182987e9a0876e6693

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xeea4bf51b5ffd01e3244bfa229ee595867da
8832ff1667d35080bd43c06db31d

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x1d8d04f0b87b6a61975c562feedb2fab23c
782779cfc50db061dda91cec613a8

4- Update Buy Fees (passed):

https://testnet.bscscan.com/tx/0x1c3654757692f1bf76dcfe5c41ea54f81627
c798c09b2a66224be331cdb82725

5- Update Sell Fees (passed):

https://testnet.bscscan.com/tx/0xf2304b015c8054d014c9e481d6cc097e076
d036dd9c0e0d3249da086f590ecd9

POINTS TO NOTE

- The owner can transfer ownership.
- The owner can renounce ownership.
- -The owner can claim stuck tokens.
- The owner can exclude the address from fees.
- The owner can update buy/sell fees to not more than 25%.

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**	1

MANUAL TESTING

Optimization
Severity: Optimization
Subject: Remove unused code
Status: Open

Overview:
Unused variables are allowed in Solidity, and they do not pose a direct security issue. It is the best practice. though to avoid them.

```solidity
event SwapAndLiquify(uint256 tokensSwapped,uint256 bnbReceived,uint256 tokensIn-
toLiqudity);

function _msgData() internal view virtual returns (bytes calldata) {
        this; // silence state mutability warning without generating bytecode - see
https://github.com/ethereum/solidity/issues/2691
        return msg.data;
    }
```

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