auditace.tech

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	1	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/0x39d4db34ac5b49c02f7e5f6aa9fc7b9bb452cab5#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:
0x912EaC39F9bbA02a250B5066B91a6b0A6FA095eE

Checksum:
A67acbefe2a12642d388659dffd20712

Owner:
0x838e98eD594Cc133f94bD8A0803358bb2c8f3b98
(at time of writing the audit)

Deployer:
0x838e98eD594Cc133f94bD8A0803358bb2c8f3b98

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

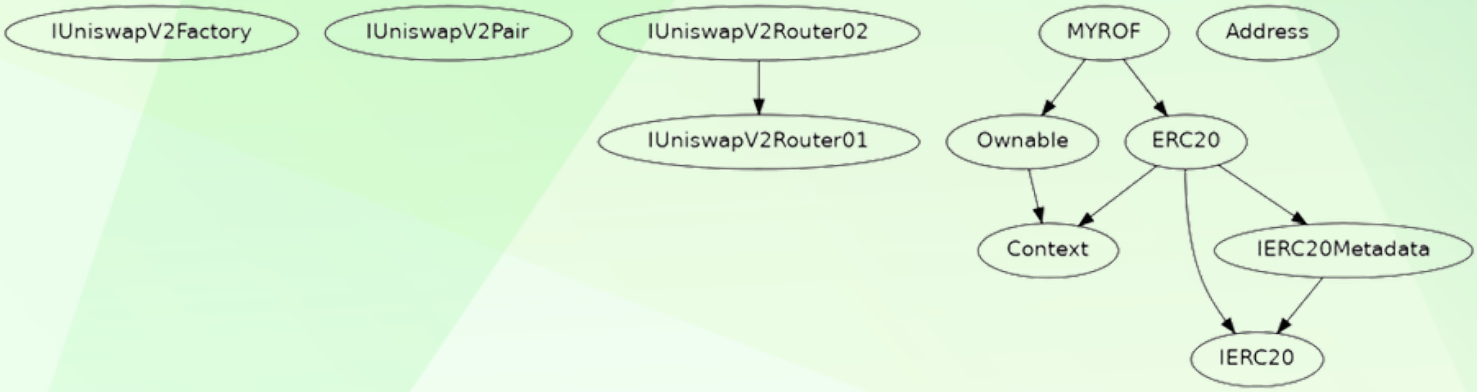
The auditing process will follow a routine as special considerations by Auditace:

- 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
- Private modifier
- Multiple Sends
- Using Suicide
- Gas Limitand Loops
- Address hardcoded
- Exception Disorder
- Using inline assembly
- Divide before multiply
- Missing Zero Address Validation
- Compiler version not fixed
- **Gasless Send**
- Using block.timestamp
- Re-entrancy
- Tautology or contradiction
- Timestamp Dependence
- Revert/require functions
- Use of tx.origin
- Integer overflow/underflow
- Dangerous strict equalities
- Using SHA3
- 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/0x1e6c3c5c4aa85e408cca72aabac403ce75de9583493c8e270984574838b95ce2

2- Change Marketing Wallet (passed):
https://testnet.bscscan.com/tx/0xdf2f1c761888b1ebcbd79b451394e828e09d1bfab66d4a97fc418ff17d118a0e

3- Change Reward Wallet (passed):
https://testnet.bscscan.com/tx/0x26002a17275e52c50c78cb47a98401e43bc5beb9a1b88c1b86e37d377886a1cb

4- Update Buy Fees (passed):
https://testnet.bscscan.com/tx/0xf9e6d88c5ecc63d062eeae8bb313b5cbfeb0b37c8cc1c311c1972a37f4641d35

5- Update Sell Fees (passed):
https://testnet.bscscan.com/tx/0xbe009adb3335bc04f5040767f223b727b17a9baa07f1ed0fb28b1816dd755bfd

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 the marketing/reward wallet address.
- 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	1
Low-Risk	0
Gas Optimization / Suggestions	1

MANUAL TESTING

Centralization – Missing Require Check

Severity: Medium

Function: changeMarketingWallet/changeRewardsWallet

Status: Open

Overview:

The owner can set any arbitrary address excluding zero address as this is not recommended because if the owner will set the address to the contract address, then the Eth will not be sent to that address and the transaction will fail and this will lead to a potential honeypot in the contract.

```
function changeMarketingWallet(address _marketingWallet) external onlyOwner{
        require(_marketingWallet != marketingWallet,"Marketing wallet is already
that address");
        require(_marketingWallet != address(0),"Marketing wallet cannot be the zero
address");
        marketingWallet = _marketingWallet;

        emit MarketingWalletChanged(marketingWallet);
    }
function changeRewardsWallet(address _RewardsWallet) external onlyOwner{
        require(_RewardsWallet != rewardsWallet,"Marketing wallet is already that
address");
        require(_RewardsWallet != address(0),"Marketing wallet cannot be the zero
address");
        rewardsWallet = _RewardsWallet;

        emit RewardsWalletChanged(rewardsWallet);
    }
```

Suggestion:

It is recommended that the address should not be able to be set as a contract address.

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.

```
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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