

Smart Contract Audit

FOR

MARIO BSC

DATED: 03 October 23'



AUDIT SUMMARY

Project name - MARIO BSC

Date: 03 October 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 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/token/0x764c3AD40958E 09E5381E34BEa9FB2674a579552



Token Information

Token Address:

0x2cF1AcF496e24a774d737a316315eE63bf371b86

Name: MARIO BSC

Symbol: MARIO

Decimals: 9

Owner: 0xc280E12AaFB1C05AA0E3BAb93208FE994c701B2D

Deployer:

0xc280E12AaFB1C05AA0E3BAb93208FE994c701B2D

Token Supply: 420,000,000,000

Checksum:

388560a874c128a9b7669f396b80ede50a44d6ce

Testnet version:

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TOKEN OVERVIEW

buy fee: 10%

Sell fee: 10%

transfer fee: 10%

Fee Privilege: Static fees

Ownership: Owned

Minting: None

Max Tx: No

Blacklist: No

Other Privileges:

- Initial distribution of the tokens



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.

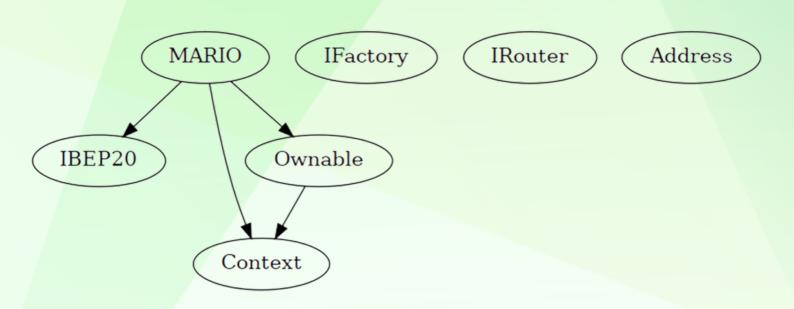
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to change buy taxes (10% static)
- Owner is not able to change sell taxes (10% static)
- Owner is not able to change transfer taxes (10% static)
- Owner is not able to set max wallet/transfer/buy/sell amounts
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens



STATIC ANALYSIS

```
Reentrancy in CATCOL transferFrom(address, address, address, andress) (contracts/Token.sol#25) 2001:

- __transferFrom(address, address, address, address, address, address, address) 2001:

- __transferFrom(address) 2002:

- __transferFrom(address) (contracts/Token.sol#20) 2002:

- __transferFrom(address) (contracts/T
```

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

No major issues were found in the output



CONTRACT ASSESMENT

```
| | Contract | Type | Bases |
| **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
IIIIII
| **IBEP20** | Interface | | | |
| LanceOf | External | | NO | |
| - | transfer | External ! | • | NO! |
| - approve | External ! | | NO! |
📙 | transferFrom | External ! | 🌑 |NO! |
111111
| **Context** | Implementation | |||
| L |_{msgSender} | Internal | | | |
111111
| **Ownable** | Implementation | Context |||
| └ | <Constructor> | Public ! | ● |NO! |
| - | owner | Public | | | NO | |
| └ | renounceOwnership | Public ! | ● | onlyOwner |
| - | _setOwner | Private 🔐 | 🅌 | |
111111
| **IFactory** | Interface | |||
| └ | createPair | External ! | ● |NO! |
111111
| **IRouter** | Interface | |||
| | | WETH | External | | | NO | |
| L | addLiquidityETH | External ! | 11 | NO! |
| - | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● |NO! |
| **Address** | Library | |||
| └ | sendValue | Internal 🔒 | ● | |
```



CONTRACT ASSESMENT

```
IIIIII
**MARIO** | Implementation | Context, IBEP20, Ownable |
| - | decimals | Public ! | | NO ! |
| L | balanceOf | Public ! | NO! |
| Lallowance | Public ! | NO! |
| - approve | Public ! | • NO! |
transferFrom | Public ! | • | NO ! |
│ └ | decreaseAllowance | Public ! | ● |NO! |
| L | isExcludedFromReward | Public ! | NO! |
| - | reflectionFromToken | Public ! | | NO ! |
| L | tokenFromReflection | Public | | NO | |
| - | excludeFromReward | Public ! | • | onlyOwner |
| └ | includeInReward | External ! | ● | onlyOwner |
| └ | excludeFromFee | Public ! | ● | onlyOwner |
| └ | includeInFee | Public ! | ● | onlyOwner |
| L | isExcludedFromFee | Public ! | NO! |
| └ | _reflectRfi | Private 🔐 | ● | |
| LakeMarketing | Private 🔐 | 🛑 | |
| - | getValues | Private 🔐 | | |
| LagetTValues | Private | | | |
| LagetCurrentSupply | Private | | | |
| LackenTransfer | Private 🔐 | 🌑 | |
| └ | swapAndLiquify | Private 🔐 | 🛑 | lockTheSwap |
| - | swapTokensForBNB | Private 🔐 | 🌑 | |
| - | <Receive Ether> | External ! | 1 | NO! |
```



CONTRACT ASSESMENT



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x5bb468de0ef4abce0753e30f414762dc90b36ea63c68fac6dfd544a19fd33e29

2- Buying when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x8c641095d412048dfaff37e333d136f15a9b39c256e68779e0506dc9d012c247

3- Selling when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0xe90c2ffc042ea39b1e6e618863c19965130e148d7458de55e11df61df0e43c0f

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

https://testnet.bscscan.com/tx/0x5e11e49e7019b4955d9c38d752f1db8d8447057d76b6aba7752c0dcce6a4595b

5- Buying when not excluded (10% tax) (passed):

https://testnet.bscscan.com/tx/0x91a7a42abbb1a06b6a24b98dab9ebeb94c29a41e30ab10bd 5b27ec0e9d560818

6- Selling when not excluded (10% tax) (passed):

https://testnet.bscscan.com/tx/0xfecd374e8b160108ff20bff22c45e5ed5caeacc07485b7dc1 c42625c568a7504

7- Transferring when not excluded (10% tax) (passed):

https://testnet.bscscan.com/tx/0x723d0e4de1e6dd533a49528e1b3c85eab549d1b2aa7f5540d8ca2cc3bcaa1420

8- Internal swap (passed):

marketing wallet received ETH

https://testnet.bscscan.com/tx/0xfecd374e8b160108ff20bff22c45e5ed5caeacc07485b7dc1 c42625c568a7504



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