

Smart Contract Audit

FOR

Zilla CEO

DATED: 08 Mar 23'



AUDIT SUMMARY

Project name - Zilla CEO

Date: 08 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	1	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 Test 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/address/0x0180de28E6 e75a6C949B92640Cb4deFE5758Ee1C



Token Information

Token Name: Zilla CEO

Token Symbol: Zilla CEO

Decimals: 9

Token Supply: 420,000,000,000,000,000

Token Address:

0xDcc4a0a67111E377D838D2e21975a940e0d1f229

Checksum:

3a7257b9a75f50d8180bd5da74744c64cf25a385

Owner:

0x239c867B63e81d818aF9606E2eB75E6D16DaB5e9 (at time of writing the audit)



TOKEN OVERVIEW

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 10%

Fees Privilige: None

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: including and excluding from fees

and rewards



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.

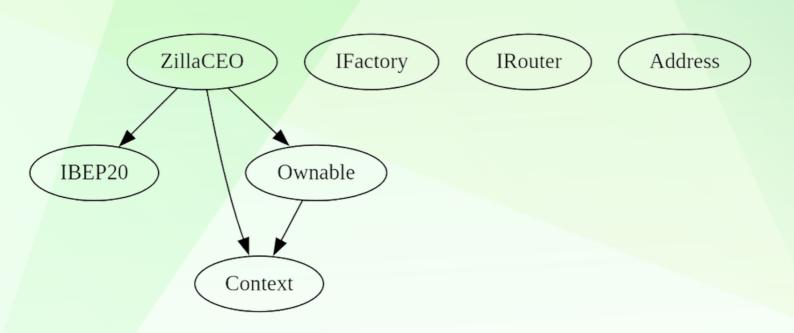
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	0
♦ Medium-Risk	0
♦ Low-Risk	1
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to change fees (10% for buy/sell/transfers static)
- 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 ASSESMENT

```
| Contract |
                 Type
                               Bases
|<mark>;-----:|:-----:|:-----:</mark>|:-----:| | | |
   | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **IBEP20** | 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 | |
**Context** | Implementation | |||
| L | msgSender | Internal 🦰 | | |
| L | msgData | Internal 🦰 | | |
IIIIII
| **Ownable** | Implementation | Context ||| | |
| L | <Constructor> | Public | | | NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | | onlyOwner |
| L | setOwner | Private 🦳 | 🛑 | |
| **IFactory** | Interface | |||
| L | createPair | External | | | NO | |
| **IRouter** | Interface | |||
| L | factory | External | | NO | |
| L| WETH | External | | NO | |
| L | addLiquidityETH | External | | III | INO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External L | | NOL |
| **Address** | Library | |||
| L | sendValue | Internal 🦰 | 🛑 | |
| **ZillaCEO** | Implementation | Context, IBEP20, Ownable |||
| 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 | allowance | Public | | NO | |
| L | approve | Public | | | NO | |
| L | transferFrom | Public | | | NO | |
```



CONTRACT ASSESMENT

```
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | transfer | Public | | | NO | |
| L | isExcludedFromReward | Public | | NO | |
| | reflectionFromToken | Public | | NO | |
| L | tokenFromReflection | Public | | NO | |
| L | excludeFromReward | Public | | | onlyOwner |
| L | includeInReward | External | | | | onlyOwner |
| L | excludeFromFee | Public | | OnlyOwner |
| L | includeInFee | Public | | | | onlyOwner |
| L | isExcludedFromFee | Public | | NO | |
📙 reflectRfi | Private 🤔 | 🧓 | |
📙 | takeMarketing | Private 🦳 | 🦲 | |
| L | getValues | Private 🦳 | | | | |
| L | getTValues | Private 🦺 | ||
| L | getRValues | Private 🦳 | | |
| L | getRate | Private 🛅 | | |
| L | getCurrentSupply | Private | | | |
| L | transfer | Private 🦳 | 🛑 | |
| L | _tokenTransfer | Private 🖺 | 🛑 | |
| L | swapAndLiquify | Private 🎒 | 🛑 | lockTheSwap |
| L | swapTokensForBNB | Private 🎒 | 📵 | |
| L | bulkExcludeFee | External | | OnlyOwner |
| L | < Receive Ether > | External | | I | INO | |
| Symbol | Meaning |
|:-----|
      | Function can modify state |
      | Function is payable |
```



STATIC ANALYSIS

```
Reentrancy in ZillaCCO.TransferFrom(address, address, uint256) (contracts/Token.sol#250: External calls:

External calls:

- transfer(enems, recipient, amount) (contracts/Token.sol#255)

- transfer(enems, recipient, amount) (contracts/Token.sol#255)

- router.swapExacttokensForEPHSupportingFeoDiTransferTokens(tokensbount, 0,path, address(this),block.timestamp) (contracts/Token.sol#253)

External calls sending eth:
- transfer(sender, recipient, amount) (contracts/Token.sol#255)

External calls sending eth:
- transfer(sender, recipient, amount) (contracts/Token.sol#255)

Event emitted after the call(sol.)

Event emitted after the calls(sol.)

Event emitted after the calls(sol.)

- approve(sender, assjeender), currentAllowance - amount) (contracts/Token.sol#262)

- paprove(sender, assjeender), currentAllowance - amount - amount - amount - amount -
```

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

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x7805ee918a5edbff5134b0f9b4f 3f7c7246ede15f1be54790247a579314a3cc6

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

https://testnet.bscscan.com/tx/0xa00f47b996c79176b57dee224dd32ee94ceb3ee170e0f4c5a1b34531bc2be637

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

https://testnet.bscscan.com/tx/0xabc20a485c0db23322a61b3528 7e842de00778a0f477790da18a093a071fb044

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

https://testnet.bscscan.com/tx/0xc97ca9648140b810829957f576 edd16bcb336dd660f01596242f6b5cc6c2736e



FUNCTIONAL TESTING

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

https://testnet.bscscan.com/tx/0x6ad4292c0edf55d28c98583db9 4fe17e63b6f03b265d30468fd94ac5ba203965

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

https://testnet.bscscan.com/tx/0x20ab52dff1ca77f2e2385563707 9ad1b877565452b14b6eb427f55515d9aab06

7- Transferring when when transfer without fee disabled (10% tax) (passed):

https://testnet.bscscan.com/tx/0xf4186b205837493bde4e2f4f47 0622a81cb533008f47abf525897d8267e9db28

8-Internal swap (passed):

marketing wallet received ETH

https://testnet.bscscan.com/address/0xa419f416d3f9647f19ee59ae6540d94ff81b1d68#internaltx



MANUAL TESTING

Low Risk Issue

Ilssue: no transferOwnership Function

Type: Logical Function: ---Line: 42-69

Severity: Low

Overview: the contract does not have a **transferOwnership** function, which means that the ownership of the contract cannot be transferred to another address. This can be a problem if the original owner loses control of their private keys or if they are no longer able to manage the contract for any reason

Recommendations

To address the issue identified in this audit, we recommend the following:

1.Implement a **TransferOwnership** Function The contract should be updated to include a transferOwnership function that allows the current owner to transfer ownership of the contract to another address. This function should include proper access control to prevent unauthorized transfers of ownership.



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