



Smart Contract Audit

FOR

GOLDEN CEO

DATED : 08 Mar 23'



AUDIT SUMMARY

Project name – GOLDEN 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/0x0180de28E6e75a6C949B92640Cb4deFE5758Ee1C>



Token Information

Token Name : Golden CEO

Token Symbol: GoldenCEO

Decimals: 9

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

Token Address:

0x873292F099fb66909224c2e3DAF0a0c63F9775aF

Checksum:

43ae02ab314b3bc7e9df03ce3443e75dbc1b9e4c

Owner:

0xaeb7411F5EDcf5C6EB9a510B08C07Ea0CEf8f606
(at time of writing the audit)



TOKEN OVERVIEW

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 10%

Fees Privilege: None

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: 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-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 is exercised 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 |
-

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

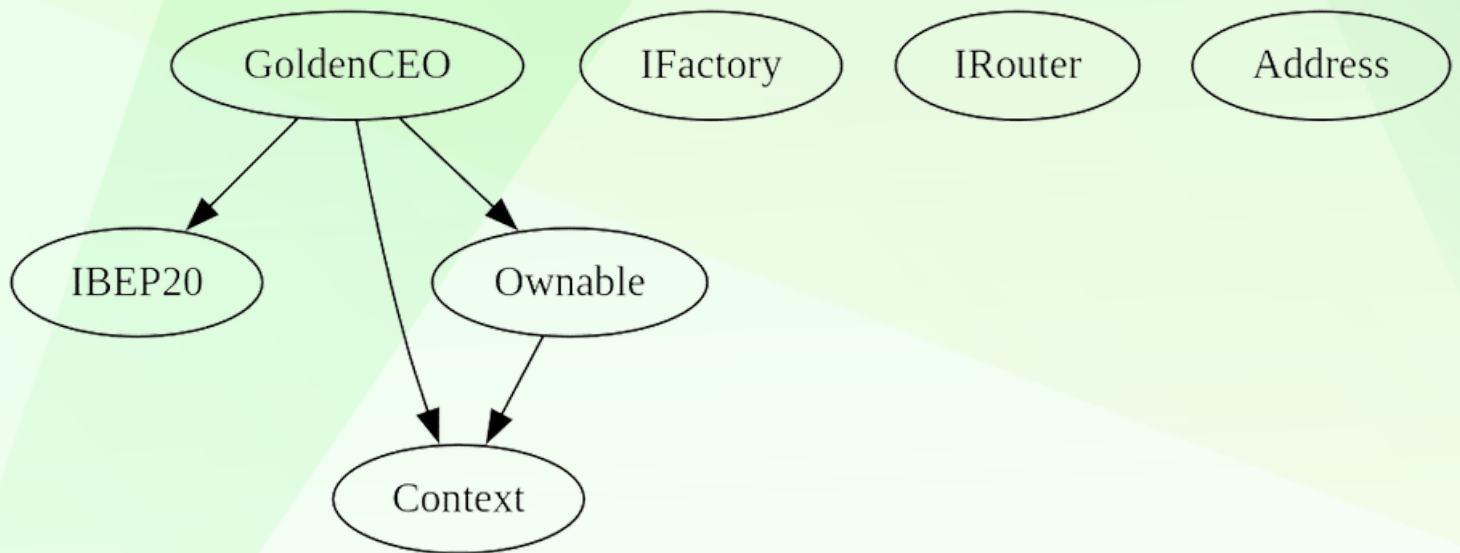
◆ Low-Risk

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**
-

TOKEN DISTRIBUTION

It should be noted that the owner currently holds 100% of the total supply. However, information about the distribution of these tokens is not available, and it is recommended that investors exercise caution when considering this aspect.

CONTRACT ASSESMENT

Contract	Type	Bases			
├──	├──	├──	├──	├──	├──
├──	Function Name	Visibility	Mutability	Modifiers	
├──	IBEP20	Interface			
├──	totalSupply	External	!	NO!	
├──	balanceOf	External	!	NO!	
├──	transfer	External	!	NO!	
├──	allowance	External	!	NO!	
├──	approve	External	!	NO!	
├──	transferFrom	External	!	NO!	
├──	Context	Implementation			
├──	_msgSender	Internal	🔒		
├──	_msgData	Internal	🔒		
├──	Ownable	Implementation	Context		
├──	<Constructor>	Public	!	NO!	
├──	owner	Public	!	NO!	
├──	renounceOwnership	Public	!	NO!	onlyOwner
├──	_setOwner	Private	🔒		
├──	IFactory	Interface			
├──	createPair	External	!	NO!	
├──	IRouter	Interface			
├──	factory	External	!	NO!	
├──	WETH	External	!	NO!	
├──	addLiquidityETH	External	!	NO!	
├──	swapExactTokensForETHSupportingFeeOnTransferTokens	External	!	NO!	
├──	Address	Library			
├──	sendValue	Internal	🔒		
├──	GoldenCEO	Implementation	Context, IBEP20, Ownable		
├──	<Constructor>	Public	!	NO!	
├──	name	Public	!	NO!	
├──	symbol	Public	!	NO!	
├──	decimals	Public	!	NO!	
├──	totalSupply	Public	!	NO!	
├──	balanceOf	Public	!	NO!	
├──	allowance	Public	!	NO!	

CONTRACT ASSESMENT

	└		approve		Public	!		⛔		NO	!	
	└		transferFrom		Public	!		⛔		NO	!	
	└		increaseAllowance		Public	!		⛔		NO	!	
	└		decreaseAllowance		Public	!		⛔		NO	!	
	└		transfer		Public	!		⛔		NO	!	
	└		isExcludedFromReward		Public	!				NO	!	
	└		reflectionFromToken		Public	!				NO	!	
	└		tokenFromReflection		Public	!				NO	!	
	└		excludeFromReward		Public	!		⛔		onlyOwner		
	└		includeInReward		External	!		⛔		onlyOwner		
	└		excludeFromFee		Public	!		⛔		onlyOwner		
	└		includeInFee		Public	!		⛔		onlyOwner		
	└		isExcludedFromFee		Public	!				NO	!	
	└		_reflectRfi		Private	🔒		⛔				
	└		_takeMarketing		Private	🔒		⛔				
	└		_getValues		Private	🔒						
	└		_getTValues		Private	🔒						
	└		_getRValues		Private	🔒						
	└		_getRate		Private	🔒						
	└		_getCurrentSupply		Private	🔒						
	└		_approve		Private	🔒		⛔				
	└		_transfer		Private	🔒		⛔				
	└		_tokenTransfer		Private	🔒		⛔				
	└		swapAndLiquify		Private	🔒		⛔		lockTheSwap		
	└		swapTokensForBNB		Private	🔒		⛔				
	└		bulkExcludeFee		External	!		⛔		onlyOwner		
	└		<Receive Ether>		External	!		💰		NO	!	
	Symbol		Meaning									
	:	-----:		-----								
	⛔		Function can modify state									
	💰		Function is payable									

STATIC ANALYSIS

```
Reentrancy in GoldenCEO.transferFrom(address,address,uint256) (contracts/Token.sol#250-265):
  External calls:
    - _transfer(sender,recipient,amount) (contracts/Token.sol#255)
      - (success) = recipient.call{value: amount}() (contracts/Token.sol#123)
      - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Token.sol#535-541)
      - address(marketingWallet).sendValue(deltaBalance) (contracts/Token.sol#522)
  External calls sending eth:
    - _transfer(sender,recipient,amount) (contracts/Token.sol#255)
      - (success) = recipient.call{value: amount}() (contracts/Token.sol#123)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (contracts/Token.sol#460)
      - _approve(sender, msgSender(),currentAllowance - amount) (contracts/Token.sol#262)
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

GoldenCEO.includeInReward(address) (contracts/Token.sol#340-351) has costly operations inside a loop:
  - excluded.pop() (contracts/Token.sol#347)
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop

Context._msgData() (contracts/Token.sol#45-48) is never used and should be removed
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

GoldenCEO._rTotal (contracts/Token.sol#151) is set pre-construction with a non-constant function or state variable:
  - (MAX - (MAX % _tTotal))
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state

Pragma version^0.8.17 (contracts/Token.sol#6) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
  solc-0.8.18 is not recommended for deployment
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/Token.sol#117-128):
  - (success) = recipient.call{value: amount}() (contracts/Token.sol#123)
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IRouter.WETH() (contracts/Token.sol#93) is not in mixedCase
Struct GoldenCEO.valuesFromGetValues (contracts/Token.sol#175-183) is not in CapWords
Constant GoldenCEO.decimals (contracts/Token.sol#147) is not in UPPER_CASE_WITH_UNDERSCORES
Constant GoldenCEO.name (contracts/Token.sol#158) is not in UPPER_CASE_WITH_UNDERSCORES
Constant GoldenCEO.symbol (contracts/Token.sol#159) is not in UPPER_CASE_WITH_UNDERSCORES
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#46)" inContext (contracts/Token.sol#40-49)
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

GoldenCEO._tTotal (contracts/Token.sol#150) should be constant
GoldenCEO.deadWallet (contracts/Token.sol#155) should be constant
GoldenCEO.marketingWallet (contracts/Token.sol#156) should be constant
GoldenCEO.swapTokensAtAmount (contracts/Token.sol#153) should be constant
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

GoldenCEO.pair (contracts/Token.sol#145) should be immutable
GoldenCEO.router (contracts/Token.sol#144) should be immutable
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**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/0xd239431f3d3f7b34b0a197a53e51c173be2f5d42b024c3283a96d43b97659add>

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

<https://testnet.bscscan.com/tx/0xe3131e3156c69f666220027d44ad89951c46a488350e2010df2266c6f93c1788>

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

<https://testnet.bscscan.com/tx/0x7e522cf40583e505113891cab42f2452bee0f868864b249919d54242703b97ef>

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

<https://testnet.bscscan.com/tx/0x739c9e4b877a1af1a012c045ef30acf8855c00558ebde4aa5cd4e48796f022b4>



FUNCTIONAL TESTING

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

<https://testnet.bscscan.com/tx/0xf59fbfb54dc2fc9d0023548fde74a2133a70a279fb614f58e840c313d9840937>

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

<https://testnet.bscscan.com/tx/0xb86b81f0fdc5b1d2ad6ada95e3c6120035710c1e5c9550ad7a865c173cee1b30>

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

<https://testnet.bscscan.com/tx/0xaaaf8493e099fe2e3baaf1897a3907e429f0fa1548c1b87488bf0e23eea3c985d>

8-Internal swap (passed):

marketing wallet received ETH

<https://testnet.bscscan.com/address/0x18f7c785a248c2507d239be22c40a2f3eaf49165#internaltx>



MANUAL TESTING

Low Risk Issue

Issue: **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.

Social Media Overview

**Here are the Social Media Accounts of
GoldenCEO**



<https://t.me/goldenceo>



https://twitter.com/ceo_golden



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