

Smart Contract Audit

FOR

Ben Coin

DATED: 25 May 23'



AUDIT SUMMARY

Project name - Ben Coin

Date: 25 May, 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 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/token/0xc56196ABaE91 AeBAf42d9194aB3382F325956E1A



Token Information

Token Name: BEN COIN

Token Symbol: BEN

Decimals: 18

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

Token Address:

0x67fC0f865c598dF2fE19C7E955327Ea8a482D29b

Checksum:

0ac8b43689586ec2f0b310755151bdcd87dba981

Owner:



TOKEN OVERVIEW

Fees:

Buy Fees: upto: 0%

Sell Fees: upto: 0 %

Transfer Fees: 0%

Fees Privilige: none

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: -



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.

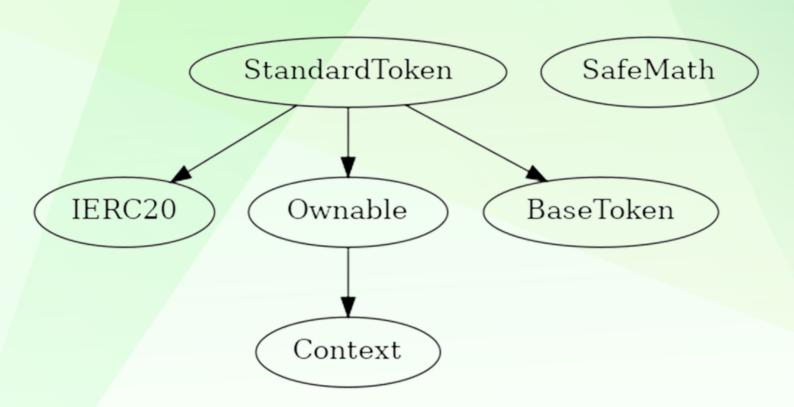
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Fees are 0 (static)
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to disable trades
- Owner is not able to limit buy/sell/transfer/wallet amounts
- Owner is not able to mint new tokens



CONTRACT ASSESMENT

```
| Contract |
                Type
                              Bases
|<del>:-----:|:-----:|:-----:|:-----:|</del>
        **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
| **IERC20** | Interface | ||| | |
| totalSupply | External | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| | allowance | External | | NO |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
ШШ
**Context** | Implementation | |||
| L | msgSender | Internal 🦰 | | | |
| L | _msgData | Internal 🦰 | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO |
| L | renounceOwnership | Public | | | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
| L | _setOwner | Private 🦳 | 🛑 | |
| **SafeMath** | Library | | | |
| L | tryAdd | Internal 🦰 | | | |
| L | trySub | Internal 🦰 | | |
| L | tryMul | Internal 🦰 | | |
| L | tryDiv | Internal 🦰 | | |
| L | tryMod | Internal 🦰 | | |
| L | add | Internal 🦰 | | | |
| L | sub | Internal 🦰 | | |
| L | mul | Internal 🦰 | | |
| L | div | Internal 🦰 | | |
| L | mod | Internal 🦰 | | |
| L | sub | Internal 🦰 | | | |
| L | div | Internal 🦰 | | |
| L | mod | Internal 🦰 | | |
| **BaseToken** | Implementation | | | |
\mathbf{H}
| **StandardToken** | Implementation | IERC20, Ownable, BaseToken | | |
| L | <Constructor> | Public | | IIII | INO | |
```



CONTRACT ASSESMENT

```
| L | name | Public | | NO | | | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | Public | | | | NO | |
| L | allowance | Public | | NO | |
| L | transferFrom | Public | | 🛑 | NO | |
| L | increaseAllowance | Public | | | | NO | |
| L | decreaseAllowance | Public | | | | NO | |
📙 | _transfer | Internal 🦲 | 🧓 | |
| L | _mint | Internal 🦲 | 🧓 | |
| L | burn | Internal 🦰 | 🛑 | |
| L | _approve | Internal 🖲 | 🛑 | |
| L | _setupDecimals | Internal 🖺 | 🛑 | |
| L | beforeTokenTransfer | Internal 🦰 | 🛑 | |
### Legend
| Symbol | Meaning |
|:-----|
   | Function can modify state |
   Function is payable |
```



STATIC ANALYSIS

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/0x089f435dd182649661faec35016 ed4815cbf67106fb29fec2d4208804500e990

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

https://testnet.bscscan.com/tx/0xdc67b21e11de3f9125f14141c6241b9b30a1f3dae85af7237bfb55b0c5a7ebdb

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

https://testnet.bscscan.com/tx/0x65e64962565ceef3b67fb98e72 1388f1c6baae61f758aacb2f191eb73ac55f71

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

https://testnet.bscscan.com/tx/0x8ff90ea4452f19884cb2e0ce211a085acbfb95cb6117dc0ce4b651d9bd369e09



FUNCTIONAL TESTING

No issues Found



DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.



ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



https://auditace.tech/



https://t.me/Audit_Ace



https://twitter.com/auditace_



https://github.com/Audit-Ace