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AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Big Coin

DATED : 26 Sep 24'

AUDIT SUMMARY

Project name – Big Coin

Date: 26 Sep, 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	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.

Token Information

Token Address:
0xE12359D6858402d10bCBF1Bb1c75Cf8e7E25270b

Name: Big Coin

Symbol: BCX

Decimals: 18

Network: BscScan

Token Type: ERC1967Proxy

Owner: 0x3c774547e4d616CC74558E887398Ec978A13918b

Deployer:
0xC066A6AE6bEFAB5F84E3529e469a84c76C5c6421

Token Supply: 50,000,000

Checksum: 4a93fa4ce458fad2fa6479de5c61f2c1

TOKEN OVERVIEW

Buy Fee: 0.00%

Sell Fee: 0.00%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: Yes

Max Tx: 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

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

POINTS TO NOTE

- The owner can mint token but not more than the maximum supply.
- The owner can change the ownership.

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	0

MANUAL TESTING

Centralization - Ownership of Proxy and Implementation contract.

Severity: Medium

Overview:
The owner has renounced ownership of the implementation contract but hasn't renounced ownership of the proxy contract. This can lead to concern by manipulating the functionality of the implementation contract through a proxy contract.

Suggestion:
Make sure the owner renounces ownership of the proxy and implementation contract.

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