

Smart Contract Audit

FOR

Doge Inu

DATED: 07 Dec 23'



AUDIT SUMMARY

Project name - Doge Inu

Date: 07 Dec, 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	3	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/address/0xc29F192296d0 292972f4a952345F7F5FF0D1E5aF#code



Token Information

Token Address:

0x3E9C92B5Fec80220C12eBD9a73c99a2e428fCD61

Name: Doge Inu

Symbol: DOGI

Decimals: 18

Network: Binance smart chain

Token Type: BEP-20

Owner:

0x426194f600267333B1d3895bC12F146DBAe06995

Deployer: 0x426194f600267333B1d3895bC12F146DBAe06995

Checksum: 27265763766ad32e37ad6b85aad793f9

Testnet version:

The tests were performed using the contract deployed on the Binance smart chain Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0xc29F192296d0292972 f4a952345F7F5FF0D1E5aF#code



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	3
Gas Optimization / Suggestions	0



POINTS TO NOTE

- The owner can renounce ownership.
- The owner can transfer ownership.
- The Owner cannot mint.
- The owner cannot blacklist addresses.
- The owner cannot set high fees.



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

1- Approve (passed):

https://testnet.bscscan.com/tx/0xfa3ae48ebbbb06926602ff7 33ef0014d9d6f599c5bf11132cb3201b3629baae8

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x851f2b3f7c1413e88b283147 24d0d7559cc81d65805a33bbf2b6a16e67a9db80

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x371305c6138cf994c40360e 4d26d6a9b4650b3b94805601aef33711eb3199e0a

4- Transfer (passed):

https://testnet.bscscan.com/tx/0xddd05f3fdda58502c2a0132 010af84d470d9158fb360c9b07cc940f9ba1ee45e



MANUAL TESTING

Centralization - Missing Zero Address

Severity: Low

Status: Open

Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

```
constructor (
   string memory name_,
   string memory symbol_,
   uint8 decimals_,
   uint256 totalSupply_,
   address serviceFeeReceiver_,
   uint256 serviceFee_
) payable {
    _name = name_;
    _symbol = symbol_;
    _decimals = decimals_;
    _mint(owner(), totalSupply_);

   emit TokenCreated(owner(), address(this), TokenType.standard,
   VERSION);

   payable(serviceFeeReceiver_).transfer(serviceFee_);
}
```

Suggestion:

It is suggested that the address should not be zero or dead.



MANUAL TESTING

Centralization - Remove the safe math

library.

Severity: Low

Status: Open

Line Number: 205-416

Overview:

The Safe Math library is no longer needed for Solidity version 0.8 and above. This is because Solidity 0.8 includes checked arithmetic operations by default. All of Safe Math's methods are now inherited into Solidity programming.



MANUAL TESTING

Centralization - Local Variable Shadowing

Severity: Low

Status: Open

Function: _approve and allowance

```
Overview:
```

```
function _approve(
  address owner.
  address spender,
  uint256 amount
 ) internal virtual {
  require(owner!= address(0), "ERC20: approve from the zero
address"):
  require(spender!= address(0), "ERC20: approve to the zero
address"):
  _allowances[owner][spender] = amount;
  emit Approval(owner, spender, amount);
function allowance (address owner, address spender)
  public
  view
  virtual
  override
  returns (uint256)
  return _allowances[owner][spender];
 }
```

Suggestion:

Rename the local variable that shadows another component.



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