

Smart Contract Audit

FOR

DONALDINU

DATED: 8 APR 23'



AUDIT SUMMARY

Project name - DONALDINU

Date: 8 April, 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	1	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

- **1.Manual Review:** The code has undergone a line-by-line review by the 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

Name: Donald Inu

Symbol: DONALDINU

Decimals: 9

Netowrk: Binance smart chain

Token Type: BEP20

Owner:

0x61B685CF876c8fad49E391Db5b7EC26cBD88fd5E (at time of audit)

Deployer:

0x61B685CF876c8fad49E391Db5b7EC26cBD88fd5E

Token Address:

0xAFF8a44901e2f342C5cF1833fCD884950a730662



Token Information

Fees:

Buy Fees: up to 6%

Sell Fees: up to 6%

Transfer Fees: 0%

Fees Privilige: Owner

Ownership: Owner

Minting: No

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges:Including in fees, excluding from fees, modifying fees



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.

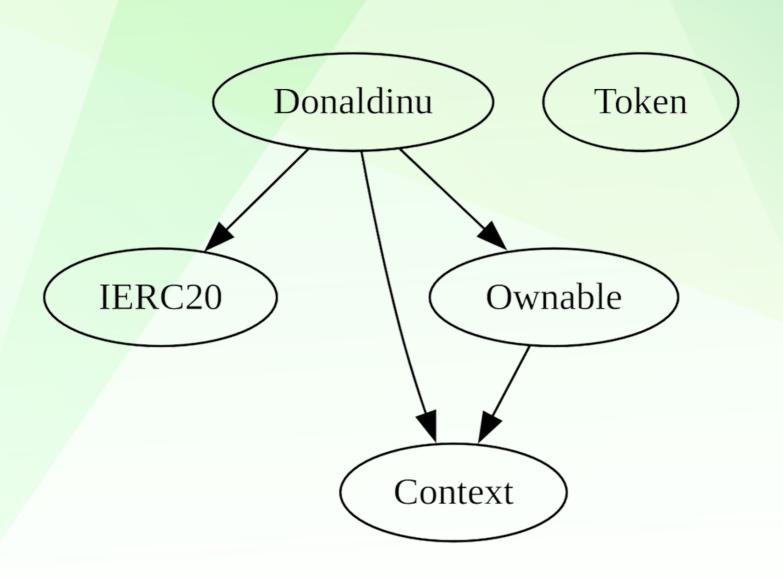
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to modify fees (6% for buy/sell and 0% for transfers)
- 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
      **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **IERC20** | Interface | |||
 L | totalSupply | External | NO | |
L | balanceOf | External | | NO | |
 L | transfer | External | | NO | |
L | allowance | External | | NO | |
 | approve | External | | | NO | |
 **Token** | Interface | |||
L | transfer | External | | | NO | |
| **IUniswapV2Factory** | Interface | |||
L | createPair | External | | | NO | |
| **IUniswapV2Router02** | Interface | |||
 L | factory | External | | NO | |
 L|WETH|External | |NO | |
L | addLiquidityETH | External | | SD | NO | |
| **Context** | Implementation | |||
L | msgSender | Internal 🔒 | | |
| **SafeMath** | Library | |||
└ | add | Internal 🔒 | ||
 L | sub | Internal | | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | div | Internal 🔒 | ||
| **Ownable** | Implementation | Context |||
 L | <Constructor> | Public | | | NO | |
L | owner | Public | | NO | |
 L | transferOwnership | Public | | | onlyOwner |
| **Donaldinu** | Implementation | Context, IERC20, Ownable ||
| L | < Constructor > | Public | | | NO | |
```



CONTRACT ASSESMENT

```
| name | Public | NO | |
 | symbol | Public | NO | |
 L | decimals | Public | | | NO | |
 L | totalSupply | Public | NO | |
 L|balanceOf|Public | | NO | |
 transfer | Public | | NO | |
 | allowance | Public | | NO | |
 L | approve | Public | | | NO | |
 L | tokenFromReflection | Private 🔐 | | |
 L | approve | Private | | | | |
 L | transfer | Private 🔐 | 🛑 | |
 └ | swapTokensForEth | Private 🔐 | ● | lockTheSwap |
 └ | sendETHToFee | Private 🔐 | ● | |
 └ | tokenTransfer | Private 🔐 | ● | |
 L | rescueForeignTokens | Public | | | onlyDev |
 L | setNewMarketingAddress | Public | | • | onlyDev |
 L | transferStandard | Private 🔐 | 🛑 | |
 L | takeTeam | Private 🔐 | 🛑 | |
 └ | reflectFee | Private 🔐 | ● ||
 L | < Receive Ether > | External | | | | | | | | | | | |
 L | getValues | Private 🔐 | ||
 L | getRValues | Private 🔐 | ||
 L | getRate | Private | | | |
 L | getCurrentSupply | Private 🔐 | ||
 L | manualswap | External | | | NO | |
L | manualsend | External | | NO | |
 L | setFee | Public | | • | onlyDev |
 L | tradingStatus | Public | | | onlyOwner |
 └ | toggleSwap | Public ! | ● | onlyDev |
 L | excludeMultipleAccountsFromFees | Public | | onlyOwner |
 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 issues found



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x5b06ec53231d790c37e223a1bdb4b9762bfe165b7cb428f919f86e7af35c9817

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

https://testnet.bscscan.com/tx/0xf864bb25cfc1727616be20aacff9dabdd935af0d043ba6819177ac01a036ff04

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

https://testnet.bscscan.com/tx/0x38752fa82140760421a899d3d6 9f681c3639fde8e984bb25c06f7262121c5d09

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

https://testnet.bscscan.com/tx/0x5d61bd473ddca281f03bc7b433e002f92b5db38f73bfa877d70b80e04e760268

5- Buying when not excluded from fees (6% tax) (passed):

https://testnet.bscscan.com/tx/0x3a868f0759e69611d002f396eccf0b45d8e36f8a0655bbf157a6e2a6307b1e0d

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

https://testnet.bscscan.com/tx/0xc66f33cfd393662c528e2f2c93 2a24d7f62fe569831fb1e97cd203609e21fb5b

7- Transferring when not excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x4216a1a63703f565c13c8682ba756ded0e59c5a73e50112ce93ae2defe9f0f80



FUNCTIONAL TESTING

8- Internal swap (passed):

Marketing and development wallets received BNB

https://testnet.bscscan.com/address/0x1a41c7B57B5265eF5d34f 9180055D633a895bb6F#internaltx

https://testnet.bscscan.com/address/0x61B685CF876c8fad49E39 1Db5b7EC26cBD88fd5E#internaltx



MANUAL TESTING

Centralization - Owner must enable trading

Severity: High

Function: tradingStatus

Lines: 549

Status: Not Resolved

Overview:

The owner must activate trading for investors to buy, sell, or transfer tokens. If trading remains disabled, token holders will be unable to trade their tokens.

```
function tradingStatus() public onlyOwner {
  tradingOpen = true;
}
```



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