

# Smart Contract Audit

**FOR** 

# Shaun Inu

**DATED: 04 May 23'** 



# **AUDIT SUMMARY**

Project name - Shaun Inu

**Date: 04** 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	2
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/0x5B57aE6D0A6 AF3C4424cEb4402B6EA8548D03320



# **Token Information**

Token Name: Shaun Inu

Token Symbol: SHAUN

Decimals: 9

Token Supply:100,000,000,000,000,000

### **Token Address:**

0x05f816B53a4c7b6B3bfbE1F759DA7FE188689c5b

## Checksum:

956f6e7d5feaabd3fb70b30e61815ac048ceb1c8

#### **Owner:**

0xf5F2a0255310F97eda5ed25D6cB23c34e6a1B5Ea

## Deployer:

0xf5F2a0255310F97eda5ed25D6cB23c34e6a1B5Ea



# **TOKEN OVERVIEW**

Fees:

Buy Fees: 10 %

Sell Fees: 10 %

Transfer Fees: 10%

Fees Privilige: none

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: Yes

**Blacklist: No** 

Other Priviliges: including or excluding from 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.

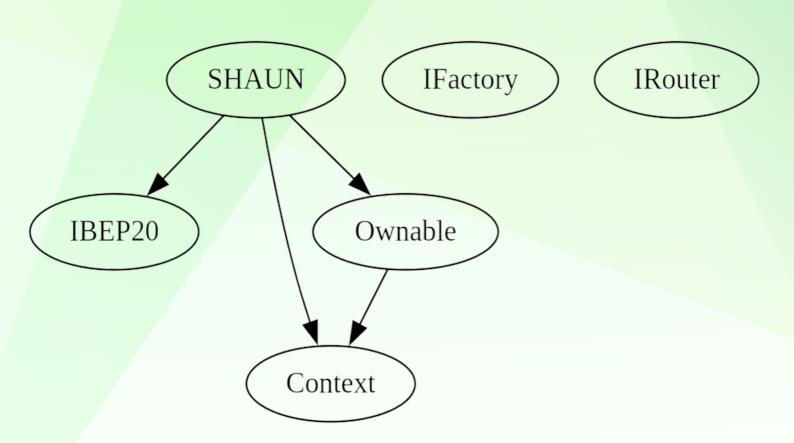
A vulnerability that has an informational character but is not affecting any of the code.

# **Findings**

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	2



# **INHERITANCE TREE**





# **POINTS TO NOTE**

- Owner not able to change buy/sell/transfer tax (10% each)
- 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
                              Bases
|:<del>-----:|:-----:|:-----:|:-----:|</del>
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **IBEP20** | Interface | ||| | | |
| L | 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 | setOwner | Private 🦳 | 🛑 | |
111111
| **IFactory** | Interface | |||
| L | createPair | External | | | NO | |
111111
| **IRouter** | Interface | ||| | | |
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidityETH | External | | III | INO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
111111
| **Address** | Library | | | |
| L | sendValue | Internal 🦲 | 🛑 | |
111111
| **SHAUN** | Implementation | Context, IBEP20, Ownable | | | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | name | Public | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | allowance | Public | | NO | |
```



# **CONTRACT ASSESMENT**

```
| L | approve | Public | | | NO | | | |
| L | transferFrom | Public | | Public | |
| | | increaseAllowance | Public | | | | NO | |
| L | decreaseAllowance | Public | | | | NO | |
| L | transfer | Public | | | NO | |
| | | isExcludedFromReward | Public | | | NO | |
| | reflectionFromToken | Public | | NO | |
| L | tokenFromReflection | Public | | NO | |
| L | excludeFromReward | Public | | ( ) | onlyOwner |
| L | includeInReward | External | | | | onlyOwner |
| L | excludeFromFee | Public | | 🛑 | onlyOwner |
📙 | includeInFee | Public 🛮 | 🛑 | onlyOwner |
| L | isExcludedFromFee | Public | | NO | | | |
| L | reflectRfi | Private 🦳 | 🛑 | |
| L | _takeMarketing | Private 🦳 | 🛑 | |
| L | _getValues | Private 🖺 | | |
| L | _getTValues | Private 🤔 | | |
| L | getRValues | Private 🦳 | | |
| L | _getRate | Private 🦳 | | |
| L | _getCurrentSupply | Private 🖺 | | |
| L | _approve | Private 🤔 | 🧓 | |
| L | _transfer | Private 🦳 | 🛑 | |
| L | _tokenTransfer | Private 🤔 | 🛑 | |
| L | swapAndLiquify | Private 🕑 | 🛑 | lockTheSwap |
| L | swapTokensForBNB | Private 🦳 | 🛑 | |
| L | bulkExcludeFee | External | | | | onlyOwner |
| L | <Receive Ether> | External | | | | NO | |
Legend
| Symbol | Meaning |
|:-----|
   | Function can modify state |
| I 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/0x3f67c6f63e79de19d074a69c2fa 62ec1d8bd840dbc656490c440b25266d36af0

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

https://testnet.bscscan.com/tx/0x62d064933db08210f6ec52e6e2 1fbf8d8e526c0203815f66326e70cb7fae7b24

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

https://testnet.bscscan.com/tx/0x1f6607e83a79181fe53e16f4083 6ebaf927bcefc9b06e669b6dfbd193dc68b5a

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

https://testnet.bscscan.com/tx/0x21d08765912624662bf65bffae7 0495ed22834005cd5c97a811cc0a175e3ff5c

#### 5- Buying when not excluded (up to 10% tax) (passed):

https://testnet.bscscan.com/tx/0x65d18dcc491a72ac255dae9809bbacb5079338ddcbcac48c883e0776daec2c30

## 6- Selling when not excluded (up to 10% tax) (passed):

https://testnet.bscscan.com/tx/0x3fac95c00f8fe0b3888aab66ac1 2aa01520abf5e5ee400c80545876fac0b8908



# **FUNCTIONAL TESTING**

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

https://testnet.bscscan.com/tx/0x968ead06d6cbeb79a9dfe73842 fb23cfc219747d366eeeeb5383c73bb773b6a5

#### 8- Internal swap (passed):

Marketing wallet received BNB

https://testnet.bscscan.com/address/0x3f65726d4e7c53d30a0da 9b69a0d13a910bba237#internaltx



# MANUAL TESTING

## **Suggestion** – Immutable tax

Status: not resolved

Overview:

Taxes are 10% for buy/sell/transfer and this amount is immutable. Its suggested to implement a method to be able to update tax based on different market conditions.

## **Suggestion** – Immutable internal swap threshold

Status: not resolved

Overview:

internal swap threshold can not be changed (currently set to 1/1000 of totalsupply) this is a reasonable amount, however based on different market conditions owner might need to change the internal swap threshold (swapTokensAtAMount)



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