

# Smart Contract Audit

**FOR** 

# Ape Inu

DATED: 7 June 23'



# **AUDIT SUMMARY**

Project name - Ape Inu

**Date:** 7 June, 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/0x8910af5a07dA 02d0FC44cc10a0A10794ED7682d1



# **Token Information**

Token Name: Ape Inu

Token Symbol: APEINU

Decimals: 9

Token Supply: 1,000,000,000

### **Token Address:**

0xF85C425bEeFbDA8d718DFbbE70a363F2e4978E10

### Checksum:

58224918f35dc30c31d40d08241278a580432124

### Owner: -

0xE63937C960dD8aA91369F910afc73ce811bea665

### Deployer:

0xE63937C960dD8aA91369F910afc73ce811bea665



# **TOKEN OVERVIEW**

Fees:

Buy Fees: 0-8%

Sell Fees: 0-8%

Transfer Fees: 0-8%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: none

**Blacklist: No** 

Other Priviliges: changing fees

- excluding from fees
- including in fees
- initial distribution of the tokens



# **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.

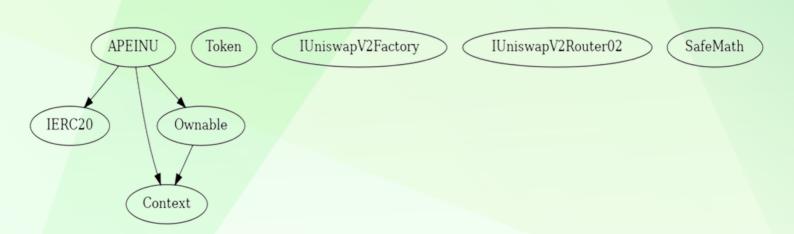
A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

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



# **INHERITANCE TREE**





### **POINTS TO NOTE**

- Owner is able to set buy/sell fees up to 8% each (16% total)
- Owner is not ablet o set transfer taxes (0% forever)
- 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
    | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**IERC20** | Interface | |||
L totalSupply External NO
 | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
 L | allowance | External | | NO | |
| L | approve | External | | | NO | |
L transferFrom | External | | NO | |
**Token** | Interface | |||
| L | transferFrom | External | | | NO | |
 L | transfer | External | | NO | |
| **IUniswapV2Factory** | Interface | ||| | | |
| 💄 | createPair | External 📗 | 🌑 | NO 📗 |
| **IUniswapV2Router02** | Interface | |||
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
| L | factory | External | | NO | |
 L | WETH | External | | NO | |
 | addLiquidityETH | External | | | NO | |
| **Context** | Implementation | |||
 L | msgSender | Internal 🔒 | | |
| **SafeMath** | Library | |||
| └ | add | Internal 🔒 | ||
 └ | sub | Internal 🔒 | | |
| L | sub | Internal 🔒 | ||
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
 └ | div | Internal 🔒 | | |
| **Ownable** | Implementation | Context ||| | |
| L | < Constructor > | Public | | | NO | |
| L | owner | Public | | NO | |
 L | renounceOwnership | Public ! | • | onlyOwner |
 L | transferOwnership | Public | | | onlyOwner |
| **APEINU** | Implementation | Context, IERC20, Ownable |||
| L | <Constructor> | Public | | | NO | |
```



### **CONTRACT ASSESMENT**

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

### 1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x7a1aad3e4d7a3645b383de4181 4d1894c58415e41f3a68bfba6c27cc8710c6b6

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

https://testnet.bscscan.com/tx/0x8ec344ee898c8770ad5d2c869d 87de31ef26d65658cbd915aaac46c2c236f54b

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

https://testnet.bscscan.com/tx/0x8ec344ee898c8770ad5d2c869d 87de31ef26d65658cbd915aaac46c2c236f54b

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

https://testnet.bscscan.com/tx/0x03c10a53c1aac138863436eb8a 2f8163d795b839098497ab0f043ef1c5ac2d52

5- Buying when not excluded from fees (0-8% tax) (passed):

https://testnet.bscscan.com/tx/0x332b8f300a5da8bb6278e67ebb 21cdf3a2391b589aff3dcf4b13fc4d6c82f1b6

6- Selling when not excluded from fees (0-8% tax) (passed):

https://testnet.bscscan.com/tx/0x6b652da2cd1ebc9374f6df0637 3994d39a7c33817eee839f8f139cfa3ff63661



# **FUNCTIONAL TESTING**

**7- Transferring when not excluded from fees (0% tax) (passed):** https://testnet.bscscan.com/tx/0x2f66a7fa0a6f1718605fe004222 31770da7332882b0ba964cfe7e8f92c928102

8- Internal swap (passed):

Marketing and development wallets received BNB

https://testnet.bscscan.com/address/0xa6743c504122b5f128120C 4018b3c3e3E2814164#internaltx



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