

Smart Contract Audit

FOR

Pablo Escodoge

DATED: 02 May 23'



AUDIT SUMMARY

Project name – Pablo Escodoge

Date: 02 May, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed (Contract is developed by Pinksale safu dev)

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	1	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	1	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/0xe1610487de95aCEAF083874562C9D5F91f5a568f



Token Information

Token Name: Pablo Escodoge

Token Symbol: ESCODOGE

Decimals: 9

Token Supply:100,000,000

Token Address:

0xEEE87aa41599BaDDb9cC1888E07E349784541ae2

Checksum:

3eee40449e90d8132be4bcc9be51fe944a3e2724

Owner:

0xc6Da1E580fE35E2Aa312A7087cbCaeEd41bD9ea7

Deployer:

0xc6Da1E580fE35E2Aa312A7087cbCaeEd41bD9ea7



TOKEN OVERVIEW

Fees:

Buy Fees: upto 10 %

Sell Fees: upto 10 %

Transfer Fees: 0%

Fees Privilige: owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: modifying swap threshold - toggling internal swap - excluding wallets from fee - including wallets in fee - modifying fee



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.

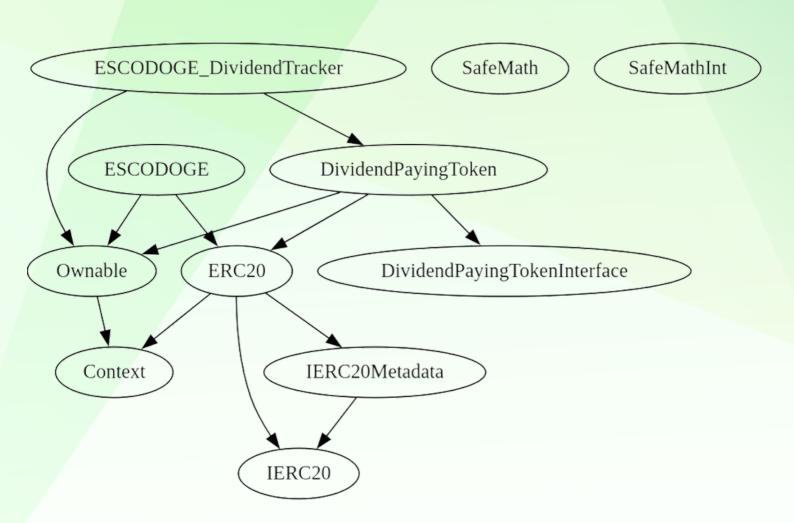
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set buy/sell fees more than 10% (20% max fee)
- Owner is not able to set transfer fees (0% always)
- 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
- Owner must enable trading for investors



```
| Contract |
                Type
                             Bases
**Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **Context** | Implementation | ||| |
| L | _msgSender | Internal 🦰 | | | |
| L | _msgData | Internal 🦰 | | |
111111
| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | | NO | |
| L | transfer | External | | | NO | |
📙 | approve | External 📗 | 🛑 | NO 📗
| L | transferFrom | External | | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **IERC20Metadata** | Interface | IERC20 | | | | | |
| L | name | External | | NO | |
| L | symbol | External | | | NO | |
| L | decimals | External | | NO | |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
| 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 | transfer | Public | | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | NO | |
| L | transferFrom | Public | | | | NO | |
| L | increaseAllowance | Public | | ( NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | tokengeneration | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦲 | 🧓 | |
| L | _approve | Internal 🦲 | 🛑 | |
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
\Pi\Pi\Pi\Pi
| **SafeMath** | Library | | | | |
| L | add | Internal 🦰 | | |
| L | sub | Internal 🦰 | | | |
```



```
| L | sub | Internal 🛅 | | | |
| L | mul | Internal 🦰 | | |
| L | div | Internal (A) | | |
| L | div | Internal 🦰 | | | |
| L | mod | Internal 🦰 | | |
| L | mod | Internal 🦰 | | |
\mathbf{H}
| **SafeMathInt** | Library | | | |
| L | div | Internal 🦰 | | |
📙 sub | Internal 🦰 | 📙
📙 | add | Internal 🦰 | 📙
📙 🗀 abs | Internal 🦰 | 🔠
| L | toUint256Safe | Internal 🦰 | | |
\Pi\Pi\Pi\Pi\Pi
| **SafeMathUint** | Library | |||
| L | toInt256Safe | Internal 🦰 | | |
IIIIIII
| **Ownable** | Implementation | Context | | | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | (e) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
\Pi\Pi\Pi\Pi\Pi
| **IPair** | Interface | |||
| L | sync | External | | | NO | |
IIIIIII
| **IFactory** | Interface | ||| | |
| L | createPair | External | | | NO | |
| L | getPair | External | | NO | |
111111
| **IRouter** | Interface | ||| | | |
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
IIIIIII
| **DividendPayingTokenInterface** | Interface | | | | | |
| L | dividendOf | External | | NO | |
| L | distributeDividends | External | | III | NO | |
```



```
| | withdrawableDividendOf | External | | NO | |
| | withdrawnDividendOf | External | | NO | |
| L | accumulativeDividendOf | External | | NO | |
**DividendPayingToken** | Implementation | ERC20, DividendPayingTokenInterface, Ownable | | |
| | distributeDividends | Public | | @ | NO | |
| L | withdrawDividendOfUser | Internal 🦰 | 🛑 | |
| L | setRewardToken | External | | | | onlyOwner |
| L | swapBnbForCustomToken | Internal 🦰 | 🛑 | |
| L | withdrawableDividendOf | Public | | NO | |
| L | withdrawnDividendOf | Public | | NO | |
| L | accumulativeDividendOf | Public | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | _tokengeneration | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦰 | 🛑 | |
| L | setBalance | Internal 🦰 | 🛑 | |
\mathbf{H}\mathbf{H}\mathbf{H}\mathbf{H}
| **IterableMapping** | Library | | | | |
| L | get | Internal 🦰 | | |
| L | getKeyAtIndex | Internal 🦰 | | |
| L | size | Internal 🦰 | | | |
| L | set | Internal 🦰 | 🛑 | |
| L | remove | Internal 🦰 | 🛑 | |
IIIIIII
| **Address** | Library | | | | | |
| L | sendValue | Internal 🦰 | 🛑 | |
| **ESCODOGE** | Implementation | ERC20, Ownable | | |
| L | <Constructor> | Public | | ( ) | ERC20 |
| L | <Receive Ether> | External | | I NO | |
| L | processDividendTracker | External | | | NO | |
| L | claim | External | | | NO | |
| L | ClearBEP20Tokens | External | | | | onlyOwner |
| L | ClearStuckBNB | External | | | NO | |
| L | excludeFromFees | Public | | OnlyOwner |
| L | excludeMultipleAccountsFromFees | Public | | | | onlyOwner |
| L | excludeFromDividends | External | | | | onlyOwner |
| L | setMarketingWallet | External | | | | onlyOwner |
```



```
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | UpdateBuyTaxes | External | | | OnlyOwner |
| L | UpdateSellTaxes | External | | | OnlyOwner |
| L | setSwapEnabled | External | | | | onlyOwner |
| L | setBotBlocks | External | | | | onlyOwner |
| L | setMinBalanceForDividends | External | | ( ) | onlyOwner |
| L | _setAutomatedMarketMakerPair | Private 🦳 | 🛑 | |
| L | setGasForProcessing | External | | | | onlyOwner |
| L | setClaimWait | External | | | | onlyOwner |
| L | getClaimWait | External | | NO | |
| | getTotalDividendsDistributed | External | | NO | |
| L | isExcludedFromFees | Public | | NO | |
| L | withdrawableDividendOf | Public | | NO | |
| L | getCurrentRewardToken | External | | NO | |
| L | dividendTokenBalanceOf | Public | | NO | |
| L | getAccountDividendsInfo | External | | NO | |
| | getAccountDividendsInfoAtIndex | External | | NO | |
| L | getLastProcessedIndex | External | | NO | |
| | getNumberOfDividendTokenHolders | External | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | swapAndLiquify | Private 🦳 | 🧓 | |
| L | swapTokensForBNB | Private 🦳 | 🛑 | |
| L | addLiquidity | Private 🦳 | 🧓 | |
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| **ESCODOGE_DividendTracker** | Implementation | Ownable, DividendPayingToken | | | | |
| L | _transfer | Internal 🦰 | | |
| L | setMinBalanceForDividends | External | | | | onlyOwner |
| L | excludeFromDividends | External | | | | onlyOwner |
| L | getLastProcessedIndex | External | | NO |
| L | getNumberOfTokenHolders | External | | | NO | |
| L | getCurrentRewardToken | External | | NO | |
| L | getAccount | Public | | NO | |
| L | getAccountAtIndex | Public | | NO | |
| L | canAutoClaim | Private 🦰 | | |
| L | process | Public | | ( NO | |
| L | processAccount | Public | | | | onlyOwner |
111111
```

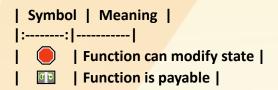


```
| **Factory** | Interface | |||
| L | createPair | External | | | NO | |
1111111
| **Router** | Interface | ||| | |
| L | WETH | External | | NO | |
| L | factory | External | | NO | |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | NO | |
| **IBEP20** | Interface | |||
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
📙 | transfer | External 📗 | 🛑 | NO 📗
| L | allowance | External | | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
IIIIIII
| **Context** | Implementation | ||| | |
| L | msgSender | Internal 🦰 | | |
| L | _msgData | Internal 🦰 | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | owner | Public | | NO |
| L | renounceOwnership | Public | | ( ) | onlyOwner |
| L | transferOwnership | Public | | | | onlyOwner |
| L | _setOwner | Private 🦳 | 🛑 | |
| **IFactory** | Interface | |||
| L | createPair | External | | | NO | |
111111
| **IRouter** | Interface | ||| | | |
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
IIIIIII
| **Address** | Library | | | |
| L | sendValue | Internal 🦰 | 🛑 | |
111111
| **ElonInuCEO** | 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 | |
| L | approve | Public | | 🛑 | NO | |
| L | transferFrom | Public | | 🛑 | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | ( ) | NO | |
| L | transfer | Public | | | | NO | |
| L | isExcludedFromReward | Public | | NO | |
| | reflectionFromToken | Public | | | NO | |
| L | EnableTrading | External | | 🛑 | onlyOwner |
| L | updateTaxesSell | Public | | ( ) | onlyOwner |
| L | tokenFromReflection | Public | | NO |
| L | includeInReward | External | | | | onlyOwner |
| L | excludeFromFee | Public | | | OnlyOwner |
| L | includeInFee | Public | | | onlyOwner |
| L | isExcludedFromFee | Public | | | NO | |
| L | _reflectRfi | Private 🦰 | 🛑 | |
| L | _takeMarketing | Private 🤔 | 🛑 | |
| L | _getValues | Private 🦳 | | |
| L | getTValues | Private 🦳 | | |
| L | _getRValues1 | Private 🦰 | | |
| L | _getRate | Private 🤔 | | |
| L | _getCurrentSupply | Private <a>P</a> | | | |
| L | _transfer | Private 🦳 | 🛑 | |
| L | _tokenTransfer | Private 🦳 | 🛑 | |
| L | bulkExcludeFee | External | | | | onlyOwner |
| L | rescueBNB | External | | | | onlyOwner |
| L | rescueAnyBEP20Tokens | Public | | | onlyOwner |
| L | <Receive Ether> | External | | I NO | |
```







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/0x53122f7f68c17ce0f6f24cedeb99d4bf7aa22901b04d444b98367a4c3fdc6b39

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

https://testnet.bscscan.com/tx/0x24e31c225a6c257b5b66dae1d348ac86ce3f71c76a1846557aa9c2dd0a97acd0

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

https://testnet.bscscan.com/tx/0x1a092619aa2f39caed2db8eaa0d3f4c53824c303f740095d94c6f1d8a7934c1a

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

https://testnet.bscscan.com/tx/0x35ba3051963754ac0421ca990c 4c889a55de5e74a3757d5fc963fa5e327cb1a1

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

https://testnet.bscscan.com/tx/0x91b848be8de51a4a688ce838ee 0fe1045437c41ca21e192727748f7d1b7261c0

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

https://testnet.bscscan.com/tx/0xbe0d7aa2339e9b8c2b090ef06f1cd58fb239a04744d5d05f184ae5d12fd7c503



FUNCTIONAL TESTING

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

https://testnet.bscscan.com/tx/0xde9e0c124eb1f1a635fa9100047 6f7def8ada5303fbcae3962feaab448ccb29e

8- Internal swap (passed):

As can seen in this transaction, marketing wallet received BNB https://testnet.bscscan.com/address/0xfe9afda8824182c0cb2cbd def75fd071d6592dde#internaltx

9- Distribution of rewards (passed):

BUSD tokens are distributed between holders, this can be seen in this transaction

https://testnet.bscscan.com/tx/0x649500c9886a4cb4070a97fbad 20c292e279f2f65d26634a56f27a01eed47c8b

10- Auto liquidity (passed):

Auto liquidity generated tokens are burnt, as can be seen in this transaction

https://testnet.bscscan.com/token/0x4666ea4ba2ee9a942b03a4c31f9cfa529c1f5498?



MANUAL TESTING

Centralization - Owner must enable trading

Severity: High

Function: enableTradingEnabled

Status: 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 enableTradingEnabled() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

Recommendation:

Incorporate a safety mechanism that allows investors to activate trading if a specified duration has elapsed since the conclusion of the presale.

Alleviation:

Since contract is owned by safu dev, enabling trades is guaranteed.



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