

Smart Contract Audit

FOR

Pegasus

DATED: 08 Mar 23'



AUDIT SUMMARY

Project name - Pegasus

Date: 08 March, 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/0x328a93d57d0f 2ff06f82f5738a563422cb7d50cd#code



Token Information

Token Name: Pegasus

Token Symbol: PEG

Decimals: 18

Token Supply: 1,000,000,000

Token Address:

0x03887C177c18140209C0f93AdC230D4C5515Bf4a

Checksum:

3b33389672bbbb11d901f0852efe7b9895c9a131

Owner:

Oxf153B0a6FbB4a091320b3d8a6A7F14a5e4Ef3eB3 (at time of writing the audit)



TOKEN OVERVIEW

Fees:

Buy Fees: 6% max

Sell Fees: 6% max

Transfer Fees: 0%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: including and excluding from fees - changing swap threshold - changing marketing wallet



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.

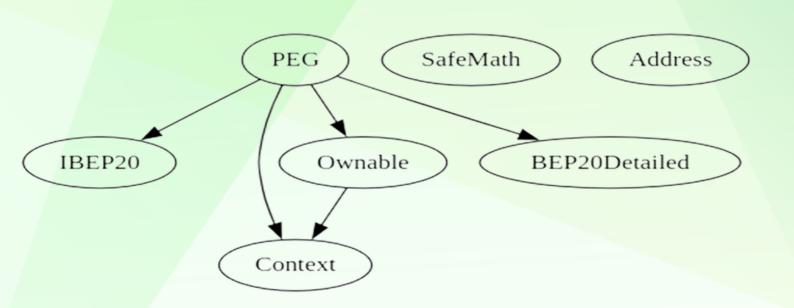
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

This particular token has the ability to apply a maximum fee of 6% on both buying and selling transactions. These fees are accumulated within the contract until they reach a predetermined threshold, at which point they are converted into BNB and transferred to the marketing wallet.

Additionally, there are no restrictions on the maximum amount an investor can trade, nor are there any limits on buy/sell/transfer amounts.

Furthermore, the token has obtained a Pinksale Safu badge from Intefi, indicating that its structure meets the necessary criteria for security and safety.

- Owner is not able to set buy tax higher than 6%
- Owner is not able to set sell tax higher than 6%
- 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 |
                Type
                             Bases
<mark>|;-----:|;-----:|;-----:</mark>-;|;------:|;-----:|;
       | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
\Pi\Pi\Pi\Pi
| **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 | |
| **SafeMath** | Library | |||
| L | tryAdd | Internal 🦰 | | |
| L | trySub | Internal 🦲 | | |
| L | tryMul | Internal 🦲 | | |
| L | tryDiv | Internal 🦰 | | |
| L | tryMod | Internal 🦰 | | |
| L | add | Internal 🦰 | | |
| L | sub | Internal 🦰 | | |
| L | mul | Internal 🦰 | | |
| L | div | Internal 🦰 | | | |
| L | mod | Internal 🦰 | | |
| L | sub | Internal 🦰 | | |
| L | div | Internal 🦰 | | | |
| L | mod | Internal 🦰 | | | |
111111
| **Context** | Implementation | |||
| L | msgSender | Internal 🦰 | | |
111111
| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO |
| L | renounceOwnership | Public | | ( ) | onlyOwner |
IIIIIII
| **BEP20Detailed** | Implementation | | | | | |
| L | <Constructor> | Public | | ( NO | |
| L | name | Public | | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
```



```
111111
**Address** | Library | |||
| L | isContract | Internal ( | | | |
111111
| **SafeBEP20** | Library | | | | | |
| | safeTransfer | Internal 🦰 | 🛑 | |
| L | safeTransferFrom | Internal 🦰 | 🛑 | |
| L | safeApprove | Internal 🦰 | 🛑 | |
| L | callOptionalReturn | Private 🦳 | 🛑 | |
| **IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | | NO | |
| L | feeToSetter | External | | NO | |
| L | getPair | External | | NO | |
| L | allPairs | External | | NO | |
| L | allPairsLength | External | | NO | |
| L | createPair | External | | | NO | |
| L | setFeeTo | External | | | NO | |
| L | setFeeToSetter | External | | | NO | |
\Pi\Pi\Pi\Pi
| **IUniswapV2Pair** | Interface | | | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | | NO | |
| L | approve | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | NO | |
| L | DOMAIN_SEPARATOR | External | | NO | |
| L | PERMIT TYPEHASH | External | | | NO | |
| L | nonces | External | | | NO | |
| L | permit | External | | | NO | |
| L | MINIMUM_LIQUIDITY | External | | | NO | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | NO | |
| L | price0CumulativeLast | External | | NO | |
| L | price1CumulativeLast | External | | NO |
| L | kLast | External | | NO | |
```



```
| L | mint | External | | | NO | | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | ( NO | |
| L | initialize | External | | | NO | |
| **IUniswapV2Router01** | Interface | | | |
| | | factory | External | | NO | |
| | WETH | External | | NO |
| L | addLiquidity | External | | | | NO | |
| | addLiquidityETH | External | | 🔟 | NO | |
| L | removeLiquidity | External | | 🛑 | NO | |
| L | removeLiquidityETH | External | | | NO | |
| L | removeLiquidityWithPermit | External | | | NO | |
| L | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | | NO | |
| L | swapTokensForExactTokens | External | | | NO | |
| L | swapExactETHForTokens | External | | I NO | |
| L | swapTokensForExactETH | External | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External | | NO | |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | | NO | |
IIIIIII
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | | NO | |
| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
| **PEG** | Implementation | Context, Ownable, IBEP20, BEP20Detailed | | |
| 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 | decreaseAllowance | Public | | | NO | |
| L | setBuyMarketingFeePercent | External | | | | onlyOwner |
| | setSellMarketingFeePercent | External | | | | onlyOwner |
| L | setMarketingAddress | External | | | | onlyOwner |
| L | setSwapAndLiquifyEnabled | Public | | 🛑 | onlyOwner |
| L | changeNumTokensSellToFee | External | | | | onlyOwner |
| L | excludeFromFee | Public | | 🛑 | onlyOwner |
| L | includeInFee | Public | | 🛑 | onlyOwner |
| L | <Receive Ether> | External | | 🔟 | NO | |
| L | _transfer | Internal 🦲 | 🧓 | |
| L | swapAndLiquify | Private 📍 | 🛑 | lockTheSwap |
| L | swapTokensForEth | Private 🤷 | 🛑 | |
| L | _approve | Internal 🦰 | 🛑 | |
| 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/0x35d0a21cc6af7202b48abc8e161 dca2aae23d1ac70ad0d3fef549593f01da67b

- 2- Buying when excluded from fees (0% tax) (passed):
- https://testnet.bscscan.com/tx/0xc3504e04962f883654f63b29c155a5623e266c45dcb2bc7b2c65e0fb8d4863be
- 3- Selling when excluded from fees(0% tax) (passed):

https://testnet.bscscan.com/tx/0x0c80af63c3c007ba8a2f2e4121eb1a303db0ceaefb24c3826003f75f31c2a668

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

https://testnet.bscscan.com/tx/0x11d240b6d0b765c34d5e177add719b20eb046ff9c8050a1a01450a61f78a47f9



FUNCTIONAL TESTING

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

https://testnet.bscscan.com/tx/0xec4723a5767806390e940ba77ecd3a5b67257a91566d3add5a5361e199072630

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

https://testnet.bscscan.com/tx/0x7fe22c379e4b49f3fdc0459f196 e6c211c5f9519e45c806b9181a6ebf5d37446

7- Transferring when not excluded from fees (10% tax) (passed):

https://testnet.bscscan.com/tx/0x20281b59cd0bf77d21ef6636ecb 93447ebfbb1dea1bdd8ec68585df53c6f853c

8-Internal swap (passed):

marketing wallet received ETH

https://testnet.bscscan.com/address/0x7980af1494b801895c45b 84533596f3f58df152f#internaltx



MANUAL TESTING

No Issues Found



Social Media Overview

Here are the Social Media Accounts of Pegasus



https://t.me/PegasusDEX



https://twitter.com/PegasusDEX



https://pegasusdex.exchange



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