

Smart Contract Audit

FOR

PEPEVERSE

DATED: 25 May 23'



AUDIT SUMMARY

Project name - PEPEVERSE

Date: 25 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	1	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/0x3618b53e363f 2c4C36548A17654498C8709cf0CD



Token Information

Token Name: PEPEVERSE

Token Symbol: PEPEVERSE

Decimals: 9

Token Supply: 420,690,000,000,000

Token Address:

0x87d829ADC494475EF96C9FcA988B9593CdB40349

Checksum:

47a9778763e5c78d31bd96bb6fdf9e175245d2ae

Owner:

0x60a0a1F9C1B3A8F6BF4883eA9263555EFd972908



TOKEN OVERVIEW

Fees:

Buy Fees: 0/8%

Sell Fees: 0/8 %

Transfer Fees: 0/8%

Fees Privilige: owner

Ownership: 0x60a0a1F9C1B3A8F6BF4883eA9263555EFd972908

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: none

Blacklist: No

Other Priviliges: - initial distribution of the tokens

- Enabling trades (disabled by default)
- Excluding wallets from fees
- Including wallets in 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.

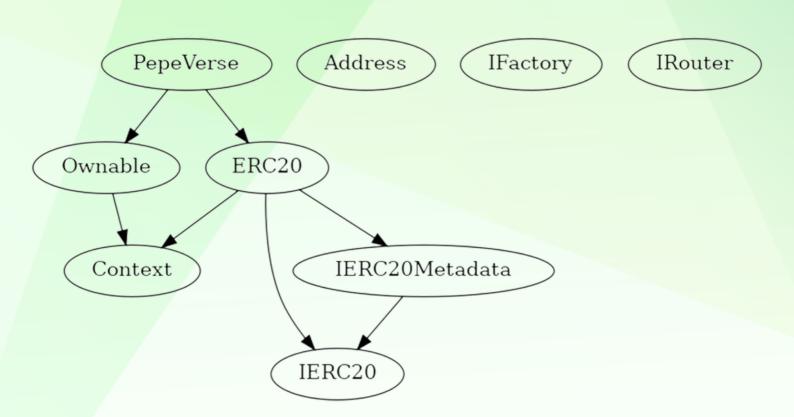
A vulnerability that has an informational character but is not affecting any of the code.

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 set sell/buy/transfer more than 8%
- 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 able to limit buys/transfers/sells by a max amount as limit
- Owner is not able to mint new tokens
- Owner must enable trades manually for holders



CONTRACT ASSESMENT

```
| Contract |
                 Type
                               Bases
|<del>:-----:|:-----:|:------:|</del>
        | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**Context** | Implementation | |||
| L | _msgSender | Internal 🦰 | | |
| | msgData | Internal 🦰 | | |
\Pi\Pi\Pi\Pi\Pi
| **IERC20** | 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
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **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 | _approve | Internal 🦰 | 🛑 | |
| **Address** | Library | | | |
| L | sendValue | Internal 🦰 | 🛑 | |
| **Ownable** | Implementation | Context | | |
```



CONTRACT ASSESMENT

```
| L | <Constructor> | Public | | ( NO | | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | 🛑 | onlyOwner |
| L | transferOwnership | Public | | | | onlyOwner |
| L | _setOwner | Private 😷 | 🛑 | |
\Pi\Pi\Pi\Pi\Pi
| **IFactory** | Interface | |||
| | createPair | External | | | NO | |
111111
| **IRouter** | Interface | | | | | | |
| | WETH | External | | NO | |
| L | addLiquidityETH | External | | 🔟 | NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
111111
| **PepeVerse** | Implementation | ERC20, Ownable | | | | |
| L | <Constructor> | Public | | ( ) | ERC20 |
| L | approve | Public | | | NO | |
| L | transferFrom | Public | | | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | ( ) | NO | |
| L | _transfer | Internal 🦲 | 🛑 | |
| L | Liquify | Private 📍 | 🛑 | lockTheSwap |
| L | swapTokensForETH | Private 🦰 | 🛑 | |
| L | addLiquidity | Private 🦳 | 🦲 | |
| L | updateLiquidityProvide | External | | | | onlyOwner |
| L | updateLiquidityTreshhold | External | | | | onlyOwner |
| L | EnableTrading | External | | | | onlyOwner |
| L | UpdateZeroBuyTax | External | | | onlyOwner |
| L | UpdateZeroSellTax | External | | | onlyOwner |
| L | SetBuyTax | External | | | onlyOwner |
| L | SetSellTax | External | | | onlyOwner |
| L | UpdateTxTax | External | | | | onlyOwner |
| L | updatedeadline | External | | | | onlyOwner |
| L | updateMarketingWallet | External | | | | onlyOwner |
| L | addExemptFee | External | | | | onlyOwner |
| L | RemoveExemptFee | External | | ( ) | onlyOwner |
| L | AddbulkExemptFee | External | | | | onlyOwner |
| L | RemovebulkExemptFee | External | | | | onlyOwner |
```



CONTRACT ASSESMENT

```
| L | rescueBNB | External | | OnlyOwner |
| L | rescueBEP20 | External | OnlyOwner |
| L | Receive Ether> | External | OnlyOwner |
| L | Receive Ether> | External | OnlyOwner |
| White is a possible of the second of the secon
```



STATIC ANALYSIS

```
Reentrancy in Percental calling recognition and anomal (contracts/Token.sole271)

- Lians counter emaphacetTokensFortTokenportingReenDiransFerTokens(tokenAmount, 0, path, address(this), block.timestamp) (contracts/Token.sole572-582)

- Lians counter emaphacetTokensFortTokenportingReenDiransFerTokens(tokenAmount, 0, path, address(this), block.timestamp) (contracts/Token.sole556-559)

External calls sending eth:
- transfer(sender, recipient, amount) (contracts/Token.sole271)
- success, Mone) = marketingMallet.call{gas: 35000,value: address(this).balance}() (contracts/Token.sole556-559)

Event emitted after the call(s):
- Approval(owner, spender, amount) (contracts/Token.sole271)
- Approval(owner, spender, amount) (contracts/Token.sole471)
- Approval(owner, spender, amount) (contracts/Token.sole471)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Context.mappData() (contracts/Token.sole#7) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16

Sol-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in PERDENIP, mappMalliquity() (contracts/Token.sole#97-56):
- (success, None) = marketingMallet.call(gas: 35000, value: address(this).balance)() (contracts/Token.sole556-559)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function Router-WETH() (contracts/Token.sole#91) is not in CapMords

Event PEPEDRIP, tradingBalled () (contracts/Token.sole#91) is not in CapMords

Event PEPEDRIP (tradingBalled) (contracts/Token.sole#91) is not in CapMords

Event PEPEDRIP (tradingBalled) (contracts/Token.sole#93) is not in CapMords

Event PEPEDRIP (tradingBalled) (
```

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/0xd08e79bb8e34f0d4fd5457ba6e 8d75b573290c6f2034b5847a684a6abdb774dc

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

https://testnet.bscscan.com/tx/0xe5cc485bf23818b459df73f57fb c75b3ec295e0650901074a0485e9238cfb82c

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

https://testnet.bscscan.com/tx/0xe5cc485bf23818b459df73f57fb c75b3ec295e0650901074a0485e9238cfb82c

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

https://testnet.bscscan.com/tx/0x1f55d9afcfcc0fc4c28bb46aa97f7bda920115e315e9ae48023bb3fe2acc6658

5- Buying from a regular wallet (8% tax) (passed):

https://testnet.bscscan.com/tx/0x37741dad4ae956700ce778a6d5 9a281d569f2bed10edbd290a14ea2ce6777419

6- Selling from a regular wallet (8% tax) (passed):

https://testnet.bscscan.com/tx/0xe3c549a439c4fef1aabeece8c9f819d1d2a2eee50181b7bd3179d483c4cd3b03



FUNCTIONAL TESTING

7- Transferring from a regular wallet (8% tax) (passed):

https://testnet.bscscan.com/tx/0xafb5e319cda5b3752436e01f6f3 d9c8faf0685bf2f5b8c4e59f63a6e4b09efd5

8-Internal swap((passed):

Marketing wallet and development received BNB

https://testnet.bscscan.com/address/0x8fe035d7a19d6c4d6f1df5c276bbec3876a71bd4#internaltx

https://testnet.bscscan.com/address/0x8fe035d7a19d6c4d6f1df5c276bbec3876a71bd4#internaltx



ISSUES FOUND

Centralization – Owner must enable trades

Severity: High

function: EnableTrading

Status: Resolved (contract is owned by safu dev)

Overview:

Owner must enable trades for investors manually. If trades remain disabled, no one would be able to buy/sell/transfer tokens (except owner)

```
function EnableTrading() external onlyOwner {
  require(!tradingEnabled, "Cannot re-enable trading");
  tradingEnabled = true;
  providingLiquidity = true;
  genesis_block = block.number;
}
```

Suggestion

To mitigate this issue, there are several options:

- Enable trades before starting the presale
- Transfer ownership of the contract to a trust 3rd party like pinksale (safu dev) in order to guarantee that trades will be enabled
- create a mechanism which will enable trades automatically after a preiod of time



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