

Smart Contract Audit

FOR

PEPE Chinese Whales

DATED: 10 May 23'



AUDIT SUMMARY

Project name - PEPE Chinese Whales

Date: 10 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	1
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/0x7c9b63a1d8ce c9223ac651a684199718436bf8c7



Token Information

Token Name: PEPE Chinese Whales

Token Symbol: PEPECHI

Decimals: 18

Token Supply:888,888,888,888

Token Address:

0xece0b8Cf584276D30B42ef9D52e8599D55aFAbDA

Checksum:

a447fe90e9bbae090a21d11181991884f6717cf2

Owner:

0x7eE9E05143D7202d6870490199a9675D97BD2016



TOKEN OVERVIEW

Fees:

Buy Fees: 0 %

Sell Fees: 0 %

Transfer Fees: 0%

Fees Privilige: none

Ownership: none

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: none



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.

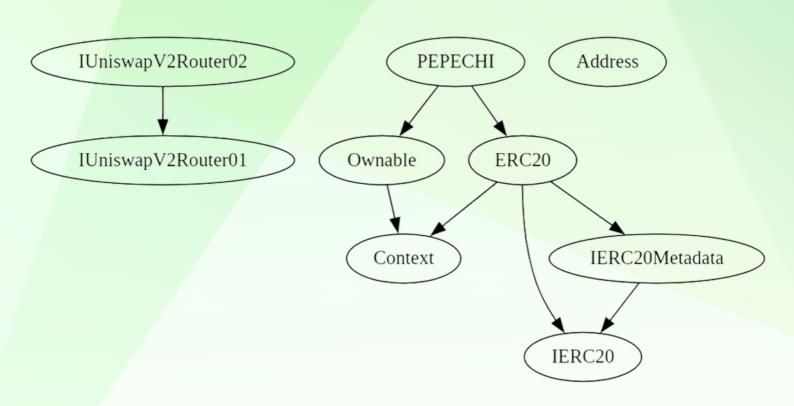
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set set buy/sell/transfer tax (0% always)
- Owner is not able to set a max buy/transfer/wallet/sell 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 trades for holders to be able to trade



```
| Contract |
                 Type
                              Bases
<mark>|;-----:|;-----:|;-----:</mark>-:|;-----:|
       | **Function Name** | **Visibility** | **Mutability** | **Modifiers** | | | |
| **IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
| L | feeToSetter | External | | NO | |
| | getPair | External | | NO | |
| | allPairs | External | | NO | |
| | allPairsLength | External | | NO | |
| | createPair | External | | | NO | |
| L | setFeeTo | External | | | NO | |
| L | setFeeToSetter | External | | | NO | |
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| **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 | |
| | 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 | |
```



```
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**IUniswapV2Router01** | Interface | |||
| L | factory | External | | NO | | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | NO | |
| L | removeLiquidity | External | | | NO | |
| | removeLiquidityETH | External | | | NO | |
| | removeLiquidityWithPermit | External | | | NO | |
| | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | ( NO | |
📙 | swapTokensForExactTokens | External 📗 | 🛑 | NO 📗
| L | swapExactETHForTokens | External | | 🔟 | NO | | |
| L | swapTokensForExactETH | External | | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External L | NOL |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | | | | | | | | | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
| | | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | | | | | | | | | | | | | |
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| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | 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 | |
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```



```
**Address** | Library | |||
| L | isContract | Internal 🦰 | | | | | |
| L | sendValue | Internal 🦲 | 🛑 | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🦲 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| | | functionStaticCall | Internal | | | | |
| | | functionStaticCall | Internal | | | | |
| L | functionDelegateCall | Internal 🦲 | 🛑 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
📙 | verifyCallResultFromTarget | Internal 🦰 | | |
| L | verifyCallResult | Internal 🦰 | | |
| L | revert | Private 🦳 | | |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | |||
| L | _msgSender | Internal 🦰 | | |
| L | _msgData | Internal 🦲 | | |
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| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | (e) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
IIIIIII
| **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 | _mint | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦲 | 🧓 | |
```



```
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | | | | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
| **PEPECHI** | Implementation | ERC20, Ownable | | |
| L | <Constructor> | Public | | | | | ERC20 |
| L | <Receive Ether> | External | | I I INO | |
| | claimStuckTokens | External | | | | onlyOwner |
| | excludeFromFees | External | | | onlyOwner |
| L | isExcludedFromFees | Public | | | NO | |
| L | enableTrading | External | | | | onlyOwner |
📙 | transfer | Internal 🦰 | 🛑 | |
| L | setSwapEnabled | External | | 🛑 | onlyOwner | |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | swapAndSendMarketing | Private 🖺 | 🛑 | |
Legend
| Symbol | Meaning |
|:-----|
| I Function is payable |
```



STATIC ANALYSIS

```
Address.functionCallWithValue(address,bytes.juint250) (contracts/Token.sol#40-422) is never used and should be removed Address.functionCallWithValue(address.bytes) (contracts/Token.sol#40-31) is never used and should be removed Address.functionCallWithValue(address.bytes) (contracts/Token.sol#40-31) is never used and should be removed Address.functionCallWithValue(address.bytes) (contracts/Token.sol#40-31) is never used and should be removed Address.functionCallWithValue(address.bytes) (contracts/Token.sol#40-40) is never used and should be removed Address.functionCallWithValue(address.bytes) (contracts/Token.sol#40-40) is never used and should be removed Address.sverifyCallResultIbool.bytes.string) (contracts/Token.sol#40-58) is never used and should be removed Address.verifyCallResultIbool.bytes.string) (contracts/Token.sol#40-58) is never used and should be removed Address.verifyCallResultIbool.bytes.string) (contracts/Token.sol#40-58) is never used and should be removed Address.verifyCallResultIbool.bytes.string) (contracts/Token.sol#40-58) is never used and should be removed Address.verifyCallResultIbool.bytes.string) (contracts/Token.sol#40-58) is never used and should be removed Address.verifyCallResultIbool.bytes.string) (contracts/Token.sol#40-58) is never used and should be removed Reference: https://github.com/crytic/silthro/address/token.sol#40-460-47):

Reference: https://github.com/crytic/silthro/address/token.sol#40-47):

Reference: https://github.com/crytic/silthro/address.sylvas.bytes.string) (contracts/Token.sol#40-47):

Reference: https://github.com/crytic/silthro/address.sylvas.string/contracts/Token.sol#40-440):

Low level call in Address.sendalugaderes.sylvas.string/contracts/Token.sol#40-440):

Low level call in Address.sendalugaderes.str
```

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/0x29122764432241be8006bf43f7c a4ea62ffe95371feef836c4e049584a0b37df

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

https://testnet.bscscan.com/tx/0x422263709341de141085dfe879c 260fd02162b48893dbb8c3fbf57c05eca5c22

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

https://testnet.bscscan.com/tx/0x4dda854eed5f22145d5392b3ee 13db4fcd01f496f3f023e30a72ff7bc84a95e5

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

https://testnet.bscscan.com/tx/0x681eef7a23be41b7e4178c8a3dd d19ff90740a5292467f076f520f6962ec5739

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

https://testnet.bscscan.com/tx/0xfd494072ece997152eed038bcf9d76ec9c5fa69a10e887394fecd7f78b163bc8

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

https://testnet.bscscan.com/tx/0x1588a3f5872a266e55f7c53710 50b49bb7f929b8ca89840931623d0889c8d085



FUNCTIONAL TESTING

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

https://testnet.bscscan.com/tx/0x95c79b9adcb1e8b127bff75b3e3 4557f63e49cb377c3d355473f464511cbfa12



MANUAL TESTING

Informational – Redundant code

Status: Not Resolved

Overview:

Marketing buy and sell tax is zero and can not be changed later, this means some features in the contract (like internal swap) are not needed until there are no tokens in the contract.

Suggestion:

delete sections of the code that are related to tax (like internal swap, etc...) in order to reduce overall gas usage



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