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AuditAce

FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

PEPEDRIP

DATED : 24 May 23'

AUDIT SUMMARY

Project name – PEPEDRIP

Date: 24 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	1	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/0x5F256E556cD1Df564e3Bc3dD68eD896b7688891c#readContract

Token Information

Token Name : Pepe Drip

Token Symbol: PEPEDRIP

Decimals: 9

Token Supply:420,000,000,000

Token Address:
0xC26C2AbC3e519A7dA3a9b72d36b29448CAf43db7

Checksum:
1cce1e49a6b660c99acdef16d6d5fd3a76cd881b

Owner:
0xD3058a9bbE3A17f488b05d48239c2151023fDE42

TOKEN OVERVIEW

Fees:

Buy Fees: 8%

Sell Fees: 8 %

Transfer Fees: 8%

Fees Privilige: static

Ownership : 0xD3058a9bbE3A17f488b05d48239c2151023fDE42

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

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-by-line 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.

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VULNERABILITY CHECKLIST

- Return values of low-level calls
- Private modifier
- Multiple Sends
- Using Suicide
- Gas Limitand Loops
- Address hardcoded
- Exception Disorder
- Using inline assembly
- Divide before multiply
- Missing Zero Address Validation
- Compiler version not fixed
- **Gasless Send**
- Using block.timestamp
- Re-entrancy
- Tautology or contradiction
- Timestamp Dependence
- Revert/require functions
- Use of tx.origin
- Integer overflow/underflow
- Dangerous strict equalities
- Using SHA3
- Using throw

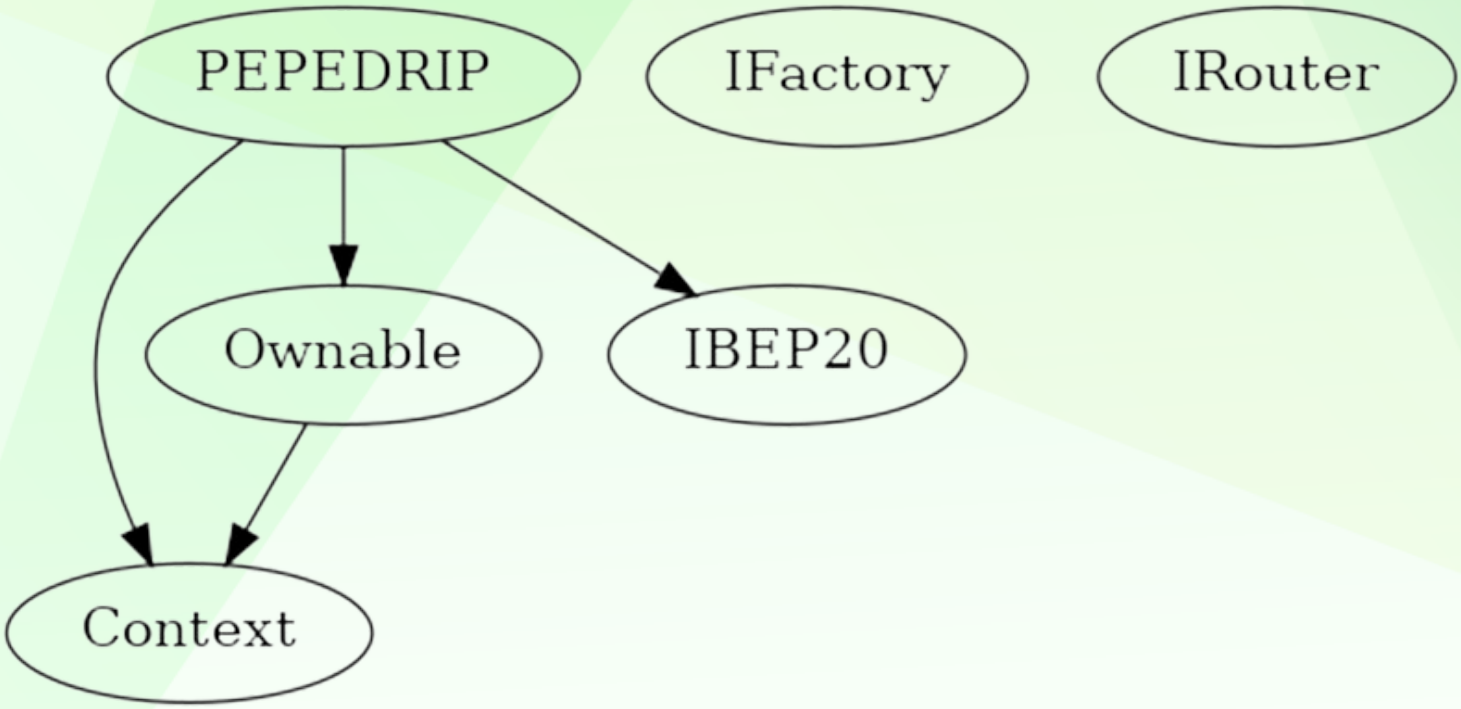
CLASSIFICATION OF RISK

Severity	Description
Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
Gas Optimization /Suggestion	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	1
Low-Risk	0
Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to change buy/sell fees at current version of the contract (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		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
Context	Implementation			
└	<Constructor>	Public ❗	🛑	NO❗
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🛑	NO❗
└	owner	Public ❗		NO❗
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
└	_setOwner	Private 🔐	🛑	
IFactory	Interface			
└	createPair	External ❗	🛑	NO❗
IRouter	Interface			
└	factory	External ❗		NO❗
└	WETH	External ❗		NO❗
└	addLiquidityETH	External ❗	💵	NO❗
└	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
└	swapExactETHForTokensSupportingFeeOnTransferTokens	External ❗	💵	NO❗
IBEP20	Interface			
└	totalSupply	External ❗		NO❗
└	balanceOf	External ❗		NO❗
└	transfer	External ❗	🛑	NO❗
└	allowance	External ❗		NO❗
└	approve	External ❗	🛑	NO❗
└	transferFrom	External ❗	🛑	NO❗
PEPEDRIP	Implementation	Context, IBEP20, Ownable		
└	viewTaxes	External ❗		NO❗
└	<Constructor>	Public ❗	🛑	NO❗
└	name	Public ❗		NO❗
└	symbol	Public ❗		NO❗
└	decimals	Public ❗		NO❗
└	totalSupply	Public ❗		NO❗
└	balanceOf	Public ❗		NO❗

CONTRACT ASSESMENT

└	allowance	Public ❗		NO❗
└	approve	Public ❗	🛑	NO❗
└	transferFrom	Public ❗	🛑	NO❗
└	increaseAllowance	Public ❗	🛑	NO❗
└	decreaseAllowance	Public ❗	🛑	NO❗
└	transfer	Public ❗	🛑	NO❗
└	isExcludedFromReward	Public ❗		NO❗
└	reflectionFromToken	Public ❗		NO❗
└	tokenFromReflection	Public ❗		NO❗
└	excludeFromReward	Public ❗	🛑	onlyOwner
└	excludeFromFee	Public ❗	🛑	onlyOwner
└	isExcludedFromFee	Public ❗		NO❗
└	_reflectRfi	Private 🔐	🛑	
└	_takeMarketing	Private 🔐	🛑	
└	_getValues	Private 🔐		
└	_getTValues	Private 🔐		
└	_getRValues	Private 🔐		
└	_getRate	Private 🔐		
└	_getCurrentSupply	Private 🔐		
└	_approve	Private 🔐	🛑	
└	isLimitedAddress	Internal 🔒		
└	_transfer	Private 🔐	🛑	
└	_tokenTransfer	Private 🔐	🛑	
└	swapAndLiquify	Private 🔐	🛑	lockTheSwap
└	swapTokensForBNB	Private 🔐	🛑	
└	updateSwapTokensAtAmount	External ❗	🛑	onlyOwner
└	enableTrading	External ❗	🛑	onlyOwner
└	<Receive Ether>	External ❗	💵	NO❗

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS

```
Reentrancy in PEPEDRIP.transferFrom(address,address,uint256) (contracts/Token.sol#266-281):
        External calls:
        - _transfer(sender,recipient,amount) (contracts/Token.sol#271)
                - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Token.sol#572-582)
                - (success,None) = marketingWallet.call{gas: 35000,value: address(this).balance}() (contracts/Token.sol#556-559)
        External calls sending eth:
        - _transfer(sender,recipient,amount) (contracts/Token.sol#271)
                - (success,None) = marketingWallet.call{gas: 35000,value: address(this).balance}() (contracts/Token.sol#556-559)
        Event emitted after the call(s):
        - Approval(owner,spender,amount) (contracts/Token.sol#471)
                - _approve(sender,_msgSender(),currentAllowance - amount) (contracts/Token.sol#278)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Context._msgData() (contracts/Token.sol#17-20) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#7) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-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 PEPEDRIP.swapAndLiquify() (contracts/Token.sol#547-561):
        - (success,None) = marketingWallet.call{gas: 35000,value: address(this).balance}() (contracts/Token.sol#556-559)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IRouter.WETH() (contracts/Token.sol#74) is not in mixedCase
Struct PEPEDRIP.valuesFromGetValues (contracts/Token.sol#191-199) is not in CapWords
Event PEPEDRIP_tradingEnabled() (contracts/Token.sol#165) is not in CapWords
Event PEPEDRIPexcludeFromRewardAccount(address) (contracts/Token.sol#347) is not in CapWords
Event PEPEDRIPexcludeFromFeeWallet(address,bool) (contracts/Token.sol#360) is not in CapWords
Event PEPEDRIP_updateSwapTokensAtAmount(uint256) (contracts/Token.sol#585) is not in CapWords
Constant PEPEDRIP._decimals (contracts/Token.sol#150) is not in UPPER_CASE_WITH_UNDERSCORES
Constant PEPEDRIP._tTotal (contracts/Token.sol#153) is not in UPPER_CASE_WITH_UNDERSCORES
Constant PEPEDRIP._name (contracts/Token.sol#162) is not in UPPER_CASE_WITH_UNDERSCORES
Constant PEPEDRIP._symbol (contracts/Token.sol#163) is not in UPPER_CASE_WITH_UNDERSCORES
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#18)" inContext (contracts/Token.sol#10-21)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

PEPEDRIP.marketingWallet (contracts/Token.sol#159-160) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

PEPEDRIP.pair (contracts/Token.sol#148) should be immutable
PEPEDRIP.router (contracts/Token.sol#147) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

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/0xd71203c1c88ae91d6e0047901f942cb3e25ab13eb5082b2fb0c33a63b84ce354

2- Buying when excluded (0% tax) (passed):
https://testnet.bscscan.com/tx/0x0c6865b159251a9495d10111d6ec9ecff26e1de03e96572f9989273da771bab0

3- Selling when excluded (0% tax) (passed):
https://testnet.bscscan.com/tx/0xe2def02934918055bafaf593be2bd9c4864292f662c12b7334030b8561519142

4- Transferring when excluded (0% tax) (passed):
https://testnet.bscscan.com/tx/0x2ac8863dbf2fbe7525717bbe8e558b43680f364d90efc0d842ef4d1ac2eb64c3

5- Buying when not excluded from fees (8% tax) (passed):
https://testnet.bscscan.com/tx/0x865991b9b40362c5482194436889ea0c1a7ad88a0a870be2efa93a6fcbe8b15e

6- Selling when not excluded from fees (8% tax) (passed):
https://testnet.bscscan.com/tx/0x5e644e3bb407195799a06913b282efda52253c299e27ea118a9a3cdb62c3b0b1

FUNCTIONAL TESTING

7- Transferringvwhen not excluded from fees (8% tax) (passed):
https://testnet.bscscan.com/tx/0x0efd307756ccdf7b4e5c685d16e7699596610fa1f8c3e8b6de3d9e0fbabfba7e

8-Internal swap ((passed):
Marketing wallet received BNB

https://testnet.bscscan.com/address/0xaedd64dcccc325ca9f246939ceaebd8b59cf1918#internaltx

ISSUES FOUND

Logical – Owner must enable trades

Severity: **Medium**

function: enableTrading

Status: Not Resolved

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(!isTradingEnabled, "Trading already enabled");
    isTradingEnabled = true;

    emit _tradingEnabled();
}
```

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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