AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Pepe Cult

DATED : 22 May 23'

AUDIT SUMMARY

Project name – Pepe Cult

Date: 22 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	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 conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither :
The code has undergone static analysis using Slither.

Testnet version:
The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:
https://testnet.bscscan.com/token/0xA6FAf4C88A9dAcB7a83e1978748F105D0eC908b5

Token Information

Token Name : Pepe Cult

Token Symbol: PepeCult

Decimals: 18

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

Token Address:
0x8FFdF1C04badC9D71b4Ce21Dbe4c7A0B085d8dD1

Checksum:
98e75be1c5ce218e01ad1cb752de3ebb3efd1dfa

Owner:
0x89fa61A2Ed51B87260df8C1aabED01d005cFd566

Deployer:
0x89fa61A2Ed51B87260df8C1aabED01d005cFd566

TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: No Fees

Ownership: 0x56d7db7cE1128Cf8cB288650Cf614b8EBa03256b

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: Enabling trades

- initial distribution of the tokens

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.

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

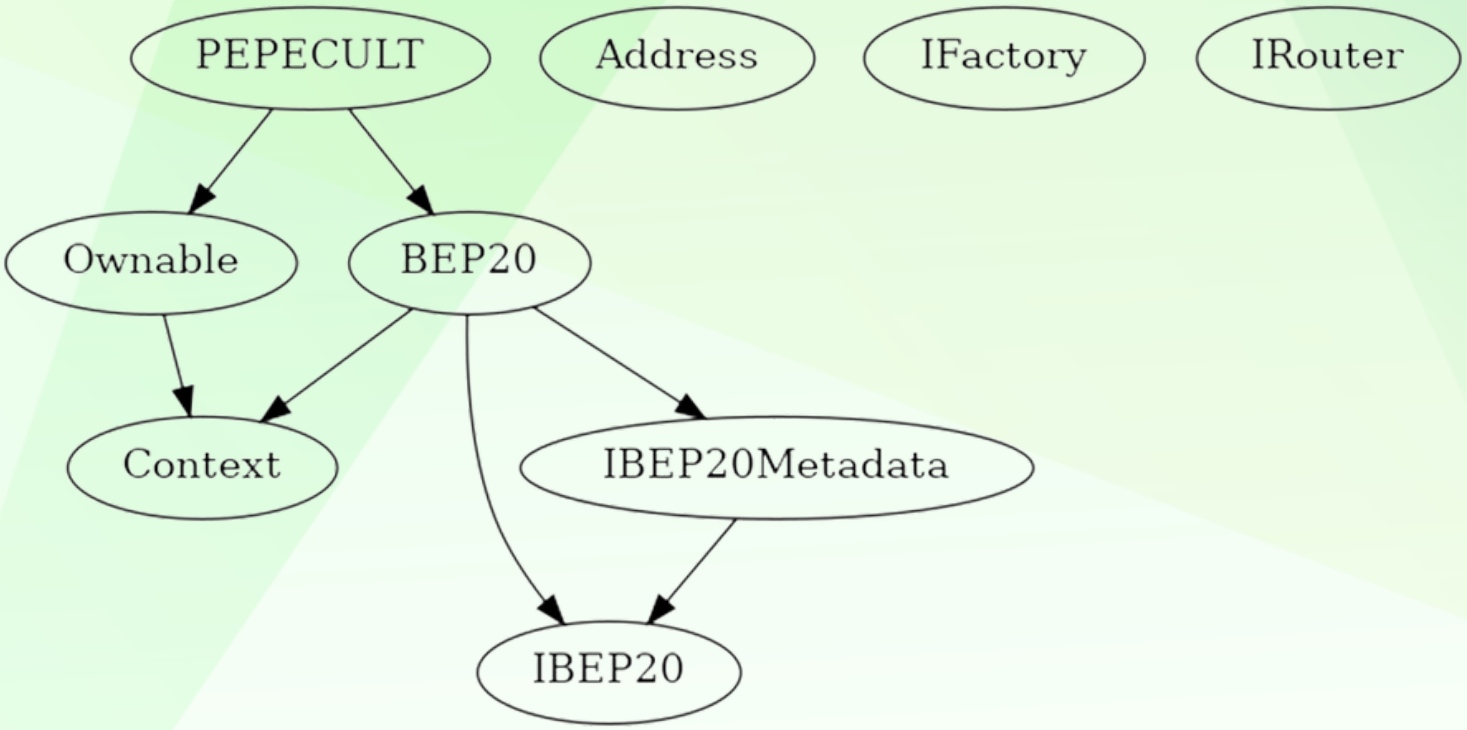
CLASSIFICATION OF RISK

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	0
Low-Risk	0
Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to set buy/sell/transfer fees
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to disable trades
- Owner is not able to limit buy/sell/transfer/wallet amounts
- Owner is not able to mint new tokens
- Owner must enable trades manually

CONTRACT ASSESMENT

Contract	Type	Bases		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
IBEP20	Interface			
└	totalSupply	External ❗		NO ❗
└	balanceOf	External ❗		NO ❗
└	transfer	External ❗	🛑	NO ❗
└	allowance	External ❗		NO ❗
└	approve	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
IBEP20Metadata	Interface	IBEP20		
└	name	External ❗		NO ❗
└	symbol	External ❗		NO ❗
└	decimals	External ❗		NO ❗
BEP20	Implementation	Context, IBEP20, IBEP20Metadata		
└	<Constructor>	Public ❗	🛑	NO ❗
└	name	Public ❗		NO ❗
└	symbol	Public ❗		NO ❗
└	decimals	Public ❗		NO ❗
└	totalSupply	Public ❗		NO ❗
└	balanceOf	Public ❗		NO ❗
└	transfer	Public ❗	🛑	NO ❗
└	allowance	Public ❗		NO ❗
└	approve	Public ❗	🛑	NO ❗
└	transferFrom	Public ❗	🛑	NO ❗
└	increaseAllowance	Public ❗	🛑	NO ❗
└	decreaseAllowance	Public ❗	🛑	NO ❗
└	_transfer	Internal 🔒	🛑	
└	_tokengeneration	Internal 🔒	🛑	
└	_approve	Internal 🔒	🛑	
Address	Library			
└	sendValue	Internal 🔒	🛑	
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🛑	NO ❗
└	owner	Public ❗		NO ❗

CONTRACT ASSESMENT

└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
└	_setOwner	Private 🔐	🛑	
IFactory	Interface			
└	createPair	External ❗	🛑	NO ❗
IRouter	Interface			
└	factory	External ❗		NO ❗
└	WETH	External ❗		NO ❗
PEPECULT	Implementation	BEP20, Ownable		
└	<Constructor>	Public ❗	🛑	BEP20
└	approve	Public ❗	🛑	NO ❗
└	transferFrom	Public ❗	🛑	NO ❗
└	increaseAllowance	Public ❗	🛑	NO ❗
└	decreaseAllowance	Public ❗	🛑	NO ❗
└	transfer	Public ❗	🛑	NO ❗
└	_transfer	Internal 🔒	🛑	
└	EnableTrading	External ❗	🛑	onlyOwner
└	AddupdateWhitelist	External ❗	🛑	onlyOwner
└	RemoveupdateWhitelist	External ❗	🛑	onlyOwner
└	AddbulkWhitelist	External ❗	🛑	onlyOwner
└	RemovebulkWhitelist	External ❗	🛑	onlyOwner
└	rescueBNB	External ❗	🛑	onlyOwner
└	rescueBSC20	External ❗	🛑	onlyOwner
└	burnBSC20	External ❗	🛑	onlyOwner
└	<Receive Ether>	External ❗	💵	NO ❗

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS

```
Address.sendValue(address,uint256) (contracts/Token.sol#338-349) is never used and should be removed
Context._msgData() (contracts/Token.sol#14-17) 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 Address.sendValue(address,uint256) (contracts/Token.sol#338-349):
        - (success) = recipient.call{value: amount}() (contracts/Token.sol#344)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Variable BEP20._balances (contracts/Token.sol#70) is not in mixedCase
Variable BEP20._allowances (contracts/Token.sol#72) is not in mixedCase
Function IRouter.WETH() (contracts/Token.sol#402) is not in mixedCase
Function PEPECULT.EnableTrading() (contracts/Token.sol#511-514) is not in mixedCase
Function PEPECULT.AddupdateWhitelist(address) (contracts/Token.sol#516-518) is not in mixedCase
Parameter PEPECULT.AddupdateWhitelist(address)._address (contracts/Token.sol#516) is not in mixedCase
Function PEPECULT.RemoveupdateWhitelist(address) (contracts/Token.sol#520-522) is not in mixedCase
Parameter PEPECULT.RemoveupdateWhitelist(address)._address (contracts/Token.sol#520) is not in mixedCase
Function PEPECULT.AddbulkWhitelist(address[]) (contracts/Token.sol#524-528) is not in mixedCase
Function PEPECULT.RemovebulkWhitelist(address[]) (contracts/Token.sol#530-534) is not in mixedCase
Constant PEPECULT.deadWallet (contracts/Token.sol#413-414) 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#15)" inContext (contracts/Token.sol#9-18)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

PEPECULT.constructor() (contracts/Token.sol#418-435) uses literals with too many digits:
        - _tokengeneration(msg.sender,420690000000000 * 10 ** decimals()) (contracts/Token.sol#419)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

PEPECULT.pair (contracts/Token.sol#409) should be immutable
PEPECULT.router (contracts/Token.sol#408) 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

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x3ed649bbd6a9c347591a9be67326782909c894ff907b4d21d5b9216f51e62f37

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

https://testnet.bscscan.com/tx/0x3e515563966d3d5e8842382cd53745729c83a2c21e7df4f827108ba43989f75b

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

https://testnet.bscscan.com/tx/0x6f99d7b806a719b861d54feb60546112b9023ed82d9841ab8ab6808842457fc9

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

https://testnet.bscscan.com/tx/0xdcab536506fb3bc7aaa7be8a89152cef18281384669d82c96f3b583016ba8086

MANUAL TESTING

No Issues Found

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