



Smart Contract Audit

FOR

Pepe 2.0

DATED : 29 June 23'



AUDIT SUMMARY

Project name – Pepe 2.0

Date: 29 June, 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/0x67aef90e4DAa94dE7BCDb37b5C81F4716b19570F>



Token Information

Token Name : Pepe 2.0

Token Symbol: PEPE2.0

Decimals: 18

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

Token Address:

0x1F06A61a1ee23e90038c5fBeBB46f74278181498

Checksum:

308e7784927442af6ce8baece4cd27d227f9ccb3

Owner:

0xa563e25789d3F29939a9250e0C560306e96453fA

Deployer:

0xa563e25789d3F29939a9250e0C560306e96453fA



TOKEN OVERVIEW

Fees:

Buy Fees: 1%

Sell Fees: 1%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership: owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: initial distribution of tokens

- including or excluding from fees

- changing swap threshold



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

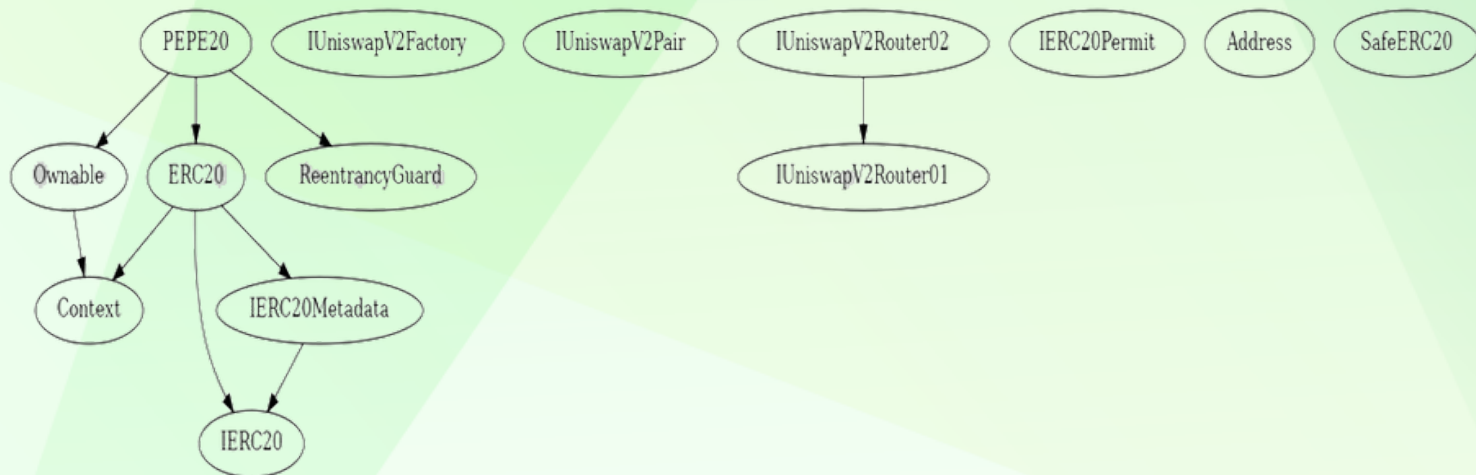
Findings

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 change current taxes (1% on buy and sell)
 - Owner is not able to set fee on transfers (0%)
 - Owner is not able to blacklist an arbitrary address.
 - Owner is not able to set max wallet/transfer/buy/sell
 - Owner is not able to mint new tokens
-



STATIC ANALYSIS

```
Address.functionStaticCall(address,bytes) (contracts/Token.sol#339-341) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (contracts/Token.sol#343-350) is never used and should be removed
Address.sendValue(address,uint256) (contracts/Token.sol#308-313) is never used and should be removed
Address.verifyCallResult(bool,bytes,string) (contracts/Token.sol#380-390) is never used and should be removed
Context.msgData() (contracts/Token.sol#14-16) is never used and should be removed
ERC20.burn(address,uint256) (contracts/Token.sol#594-609) is never used and should be removed
ReentrancyGuard.reentrancyGuardEntered() (contracts/Token.sol#698-700) is never used and should be removed
SafeERC20.safeApprove(ERC20,address,uint256) (contracts/Token.sol#433-439) is never used and should be removed
SafeERC20.safeDecreaseAllowance(ERC20,address,uint256) (contracts/Token.sol#446-453) is never used and should be removed
SafeERC20.safeIncreaseAllowance(ERC20,address,uint256) (contracts/Token.sol#441-444) is never used and should be removed
SafeERC20.safePermit(ERC20Permit,address,address,uint256,uint256,uint8,bytes32,bytes32) (contracts/Token.sol#455-469) is never used and should be removed
SafeERC20.safeTransferFrom(ERC20,address,address,uint256) (contracts/Token.sol#429-431) 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-0.8.20 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#308-313):
- (success) = recipient.call{value: amount}() (contracts/Token.sol#311)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Token.sol#330-337):
- (success,returndata) = target.call{value: value}(data) (contracts/Token.sol#335)
Low level call in Address.functionStaticCall(address,bytes,string) (contracts/Token.sol#343-350):
- (success,returndata) = target.staticcall(data) (contracts/Token.sol#348)
Low level call in Address.functionDelegateCall(address,bytes,string) (contracts/Token.sol#356-362):
- (success,returndata) = target.delegatecall(data) (contracts/Token.sol#360)
Low level call in PEPE20.sendBNB(address,uint256) (contracts/Token.sol#890-894):
- (success) = address{to}.call{value: amount}() (contracts/Token.sol#892)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
```

```
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (contracts/Token.sol#61) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (contracts/Token.sol#63) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (contracts/Token.sol#82) is not in mixedCase
Function IUniswapV2Router01.WETH() (contracts/Token.sol#114) is not in mixedCase
Function IERC20Permit.DOMAIN_SEPARATOR() (contracts/Token.sol#300) is not in mixedCase
Parameter PEPE20.sendBNB(address,uint256).to (contracts/Token.sol#890) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
```

```
Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#119) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#120)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar
```

```
PEPE20.constructor() (contracts/Token.sol#732-762) uses literals with too many digits:
- _mint(owner(),420699000000000 * (10 ** 18)) (contracts/Token.sol#733)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits
```

```
PEPE20.marketingWallet (contracts/Token.sol#711) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
```

```
PEPE20.buyTax (contracts/Token.sol#707) should be immutable
PEPE20.marketingWalletShares (contracts/Token.sol#713) should be immutable
PEPE20.sellTax (contracts/Token.sol#708) should be immutable
PEPE20.setSwapTokensLimit (contracts/Token.sol#716) should be immutable
PEPE20.taxDenominator (contracts/Token.sol#706) should be immutable
PEPE20.totalTax (contracts/Token.sol#709) should be immutable
PEPE20.uniswapV2Pair (contracts/Token.sol#721) should be immutable
PEPE20.uniswapV2Router (contracts/Token.sol#720) 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/0xcd236c7d331a790abf219cc24176723ce768c316c5b2bb67a868fb4e4c7aabec>

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

<https://testnet.bscscan.com/tx/0x939d513e94c2c0ccbe120019fabd2817f41dbe186a0ced96ddda25dc6cb53e12>

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

<https://testnet.bscscan.com/tx/0x52b981e2ae2eb6fcbd50ef21402fe1e4318c80c9f5fff4954ea9df2e0134dc2c>

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

<https://testnet.bscscan.com/tx/0x086515569bae8aebbd7564814accb2cd4451d8b24f4bb7bef7193b5e7bae552b>

5- Buying when not excluded from fees (1% tax) (passed):

<https://testnet.bscscan.com/tx/0xb0d8f65c44a04ba988c89a12f7f79c81030ec10b0ad94a2ce5916077a063bebc>

6- Selling when not excluded from fees (1% tax) (passed):

<https://testnet.bscscan.com/tx/0x7fb8c1dcf633b640b80f1a4f3e8ffea06a77333bfe16c097331bd6bea0c6e67a>



FUNCTIONAL TESTING

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

<https://testnet.bscscan.com/tx/0x26a2e328a4f1c04bfcc80f3623f8e80d2ad875f80c6d7bd1675b4ae5ac15b0dc>

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

<https://testnet.bscscan.com/address/0x84e126231e0a76a93fc4e887c447a57e29789f44#internaltx>



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