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AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Pepe Mafia Don

DATED : 19 Jan, 2024

AUDIT SUMMARY

Project name – Pepe Mafia Don

Date: 19 Jan, 2024

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	2	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/address/0xCE74cE4e145e1956d7ad87C779B3E8eDFad8635f#code

Token Information

Token Name : Pepe Mafia Don

Token Symbol: PMD

Decimals: 15

Token Supply: 30000000

Network: BscScan

Token Type: BEP-20

Token Address:
0xf2D90a02673D742bC511E5DFc1e186e5646Ec7c1

Checksum:
Ae1c3a4fbb6e83e8393a57617b5a5b32

Owner:
0xe46a55773aef0e3d24dc2c98fce3fb654730358b
(at time of writing the audit)

Deployer:
0x4ac8cb73913a9a7e34f82fac6877af647673210b

TOKEN OVERVIEW

Fees:

Marketing Fee: 0%

Sell Fee: 0%

Transfer Fee: 0%

Fees Privilege: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

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

STATIC ANALYSIS

A static analysis of the code was performed using Slither.

No issues were found.

```
INFO:Detectors:
BEP20PepeMafiaDon.allowance(address,address).owner (MafiaDon.sol#427) shadows:
        - Ownable.owner() (MafiaDon.sol#305-307) (function)
BEP20PepeMafiaDon._approve(address,address,uint256).owner (MafiaDon.sol#590) shadows:
        - Ownable.owner() (MafiaDon.sol#305-307) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
INFO:Detectors:
BEP20PepeMafiaDon._burnFrom(address,uint256) (MafiaDon.sol#604-607) is never used and should be removed
Context._msgData() (MafiaDon.sol#121-124) is never used and should be removed
SafeMath.div(uint256,uint256) (MafiaDon.sol#220-222) is never used and should be removed
SafeMath.div(uint256,uint256,string) (MafiaDon.sol#235-242) is never used and should be removed
SafeMath.mod(uint256,uint256) (MafiaDon.sol#255-257) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (MafiaDon.sol#270-273) is never used and should be removed
SafeMath.mul(uint256,uint256) (MafiaDon.sol#195-207) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
Pragma version0.5.16 (MafiaDon.sol#9) allows old versions
solc-0.5.16 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
Variable BEP20PepeMafiaDon._decimals (MafiaDon.sol#355) is not in mixedCase
Variable BEP20PepeMafiaDon._symbol (MafiaDon.sol#356) is not in mixedCase
Variable BEP20PepeMafiaDon._name (MafiaDon.sol#357) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
INFO:Detectors:
Redundant expression "this (MafiaDon.sol#122)" inContext (MafiaDon.sol#112-125)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
INFO:Detectors:
BEP20PepeMafiaDon.constructor() (MafiaDon.sol#359-367) uses literals with too many digits:
        - _totalSupply = 30000000 * 10 ** 15 (MafiaDon.sol#363)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits
INFO:Slither:MafiaDon.sol analyzed (5 contracts with 93 detectors), 16 result(s) found
```

Functional Tests

1- Approve (passed):

https://testnet.bscscan.com/tx/0x311c491cef7b043cc067e393a0a120da7bd7e96365da306278a2aa19148bfa4e

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xe77efc3160aa6991711b476caf92337875fb4f491a8e189b0265c349796f7a94

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0xa28970de03f8662d7a5287618ed237eed47ae29e9a0e04412c72059528c0c23d

4- Transfer (passed):

https://testnet.bscscan.com/tx/0x068c6a3b6315231e5ce4643d23673cb00ffad80e7dc535456ec12ee0f4696d1d

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	2
Gas Optimization / Suggestions	0

MANUAL TESTING

Centralization – Local Variable Shadowing

Severity: Low

Function: _approve and allowance

Status: Open

Overview:

```
function allowance(address owner, address spender) external view returns (uint256)
{
    return _allowances[owner][spender];
  }
function _approve(address owner, address spender, uint256 amount) internal {
    require(owner != address(0), "BEP20: approve from the zero address");
    require(spender != address(0), "BEP20: approve to the zero address");

    _allowances[owner][spender] = amount;
    emit Approval(owner, spender, amount);
  }
```

Suggestion:

Rename the local variable that shadows another component.

MANUAL TESTING

Optimization

Severity: Low

Subject: Old Pragma Solidity version

Status: Open

Overview:
It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

```
pragma solidity 0.5.16;
```

Suggestion:
Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.

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