



Smart Contract Audit

FOR

MafiaPepe

DATED : 25 May 23'



AUDIT SUMMARY

Project name – MafiaPepe

Date: 25 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	1	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 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/0x11F0A094BBF9b57aA44E1f094542b71F6341426b>



Token Information

Token Name : MafiaPepe

Token Symbol: MFP

Decimals: 18

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

Token Address:

0xD768dAD1FeeDaC5A1c2627AAbA711710bEd208d7

Checksum:

d1f7a9c7f9129f0fb998642fa62f27e5a6991245

Owner:

0xe11d0Ea7e24DCDaB70225beFA94E42c6574D354A

Network: Ethereum

Token Type: ERC-20



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.

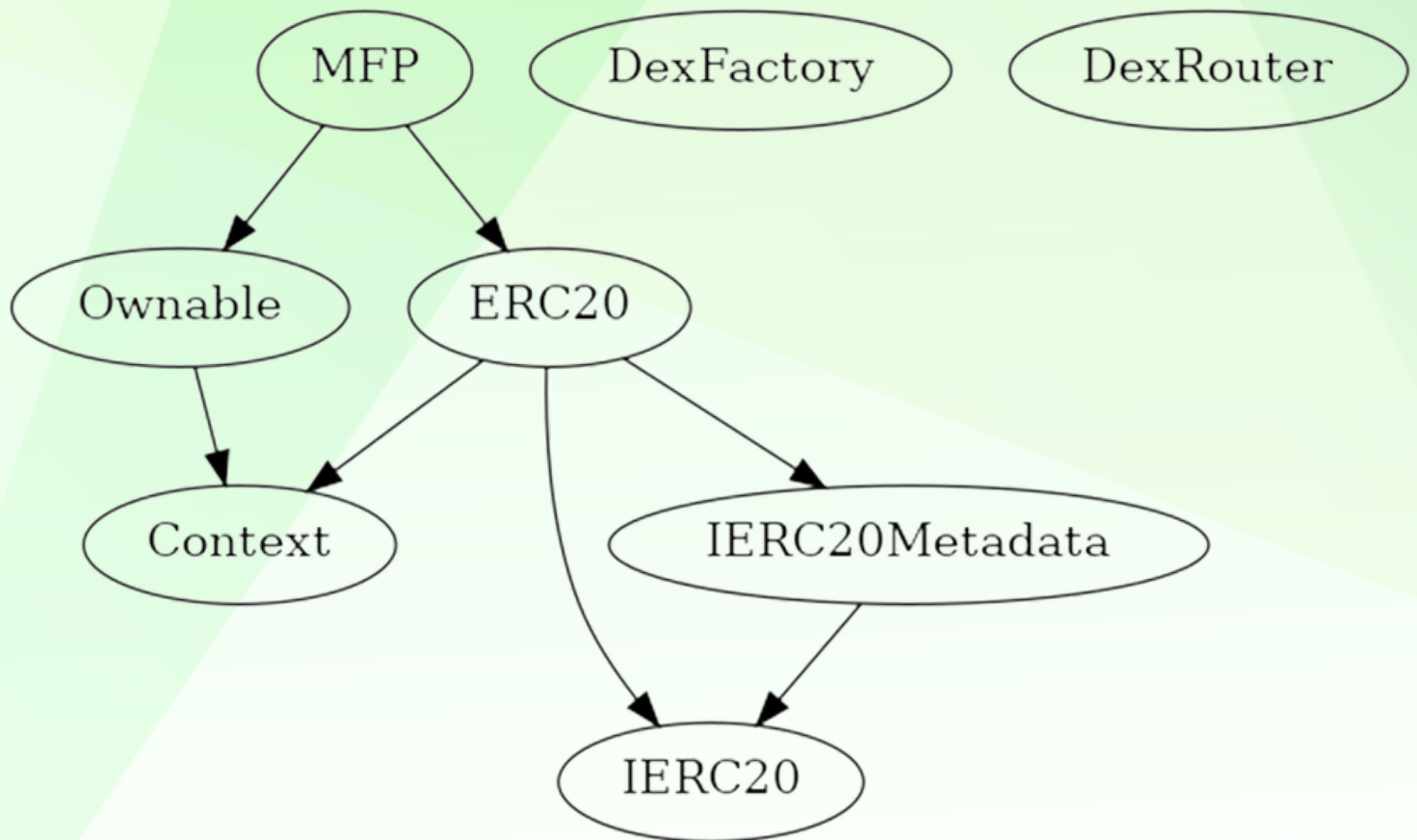
Findings

Severity

Found

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

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to set sell/buy/transfer fees (0% static)
 - 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 enabel trades manually for holders
-



STATIC ANALYSIS

```
Context._msgData() (contracts/Token.sol#13-15) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Token.sol#224-235) 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#6) 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

Function DexRouter.WETH() (contracts/Token.sol#288) is not in mixedCase
Parameter MFP.setWhitelisted(address,bool)._wallet (contracts/Token.sol#338) is not in mixedCase
Parameter MFP.setWhitelisted(address,bool)._status (contracts/Token.sol#338) is not in mixedCase
Parameter MFP.clearERC20(address,address,uint256)._tokenAddr (contracts/Token.sol#349) is not in mixedCase
Parameter MFP.clearERC20(address,address,uint256)._to (contracts/Token.sol#350) is not in mixedCase
Parameter MFP.clearERC20(address,address,uint256)._amount (contracts/Token.sol#351) is not in mixedCase
Parameter MFP.checkWhitelisted(address)._wallet (contracts/Token.sol#357) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

MFP.constructor() (contracts/Token.sol#319-330) uses literals with too many digits:
- _mint(msg.sender,4206900000000000 * 10 ** decimals()) (contracts/Token.sol#329)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output

CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
	Context	Implementation			
L	_msgSender	Internal	🔒		
L	_msgData	Internal	🔒		
	Ownable	Implementation	Context		
L	<Constructor>	Public	! 🔴	NO!	
L	owner	Public	!	NO!	
L	_checkOwner	Internal	🔒		
L	renounceOwnership	Public	! 🔴	onlyOwner	
L	transferOwnership	Public	! 🔴	onlyOwner	
L	_transferOwnership	Internal	🔒	🔴	
	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!	
	IERC20Metadata	Interface	IERC20		
L	name	External	!	NO!	
L	symbol	External	!	NO!	
L	decimals	External	!	NO!	
	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!	



CONTRACT ASSESMENT

```

|  |  | _transfer | Internal |  |  |  |
|  |  | _mint | Internal |  |  |  |
|  |  | _burn | Internal |  |  |  |
|  |  | _approve | Internal |  |  |  |
|  |  | _spendAllowance | Internal |  |  |  |
|  |  | _beforeTokenTransfer | Internal |  |  |  |
|  |  | _afterTokenTransfer | Internal |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  | **DexFactory** | Interface |  |  |  |
|  |  | createPair | External |  |  | NO  |
|  |  |  |  |  |  |  |
|  |  | **DexRouter** | Interface |  |  |  |
|  |  | factory | External |  |  | NO  |
|  |  | WETH | External |  |  | NO  |
|  |  | addLiquidityETH | External |  |  | NO  |
|  |  | swapExactTokensForETHSupportingFeeOnTransferTokens | External |  |  | NO  |
|  |  |  |  |  |  |  |
|  |  | **MFP** | Implementation | ERC20, Ownable |  |  |
|  |  | <Constructor> | Public |  |  | ERC20 |
|  |  | enableTrading | External |  |  | onlyOwner |
|  |  | setWhitelisted | External |  |  | onlyOwner |
|  |  | clearETH | External |  |  | onlyOwner |
|  |  | clearERC20 | External |  |  | onlyOwner |
|  |  | checkWhitelisted | External |  |  | NO  |
|  |  | _transfer | Internal |  |  |  |

```

Legend

Symbol	Meaning
:-----: -----	
	Function can modify state
	Function is payable



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/0xcc74261ae2c45608d48ae0ace935f94afce57187cb3636d35e8297f971648fed>

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

<https://testnet.bscscan.com/tx/0x7348f62ab17bc3897180cfcf9bfd8ac910e5aa41137ccf151569f06acea7ece0>

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

<https://testnet.bscscan.com/tx/0x5a6644ce400ce46ab4621ac7e316e6a3dc353aabd54de2a9cc352ab60fd92df6>

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

<https://testnet.bscscan.com/tx/0x6a0ff95f25e5154434dce8195317fcbd8a06cf1e91ffc01e35d38dbf76a247bc>

Manual Testing

Centralization – Owner must enable trades

Severity: **High**

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(!tradingEnabled, "Trading is already enabled");  
    tradingEnabled = true;  
    startTradingBlock = block.number;  
}
```

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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