

Smart Contract Audit

FOR

METADOGE2

DATED: 10 July 23'



Centralization – Enabling Trades

Severity: High

function: enableTrading

Status: Not Resolved

Overview:

Owner of the contract must enable trades manually for investors, otherwise no one would be able to buy/sell/transfer their tokens.

```
function enableTrading() external onlyOwner {
  require(!isTradingEnabled, "Trading already enabled");
  isTradingEnabled = true;
  emit _enableTrading();
}
```

Suggestion

Its suggested to either enable trades prior to presale, or transfer ownership of the contract to a certified pinsksale safu developer to guearanee enabling of trades.



AUDIT SUMMARY

Project name - METADOGE2

Date: 10 July, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed with High Risk

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 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/0xC0B7a79Bd06fc7 FE3F2607c07f397b26244Ec4fa



Token Information

Token Name: META DOGE 2.0

Token Symbol: METADOGE2

Decimals: 9

Token Supply:100,000,000

Token Address:

0x30Ab698F605a277F129cFc754De309D344Bd92e6

Checksum:

f1bc1e948b9029e1f5028ecd3146efdbd6f0e4bc

Owner:

0xf5F2a0255310F97eda5ed25D6cB23c34e6a1B5Ea
(at time of writing the audit)

Deployer:

0xf5F2a0255310F97eda5ed25D6cB23c34e6a1B5Ea



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 5%

Transfer Fees: 0%

Fees Privilege: Immutable Fees

Ownership: owned

Minting: none

Max Tx Amount/ Max Wallet Amount: Yes

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-byline 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





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

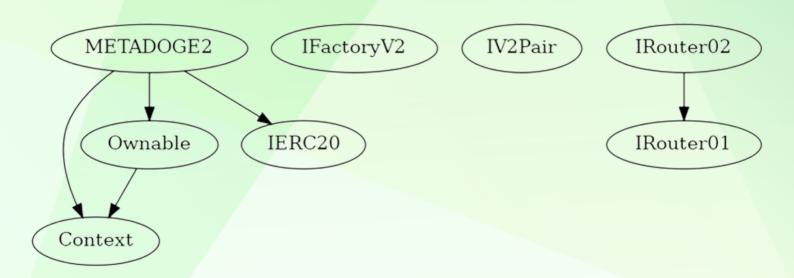
A vulnerability that has an informational character but is not affecting any of the code.

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 change current fees (5% buy / 0% sell / 0% transfer)
- Owner is not able to blacklist an address
- Owner is not able to disable buy/sell/transfers
- Owner is not able to set max wallet limit and minimum wallet limits
- Owner is not able to mint new tokens
- Owner must enable trades manually



CONTRACT ASSESMENT

```
Contract |
             Type
                        Bases
   L | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**Context** | Implementation | |||
| L | <Constructor> | Public | | | NO | |
 L | msgSender | Internal | | | |
 L | msgData | Internal | | | |
**Ownable** | Implementation | Context |||
 Lowner | Public | NO | |
 └ | renounceOwnership | Public ! | ● | onlyOwner |
| L | setOwner | Private 🔐 | 🛑 | | | |
| **IFactoryV2** | Interface | |||
| L | getPair | External | | NO | |
 | **IV2Pair** | Interface | |||
| L | factory | External | | NO | |
| L | getReserves | External | | NO | |
| L | sync | External | | 🛑 |NO | |
| **IRouter01** | Interface | |||
| L | factory | External | | NO |
 L | WETH | External | | NO | |
 L | addLiquidityETH | External | | SD | NO | |
 L | addLiquidity | External | | | NO | |
| L | swapExactETHForTokens | External | | 1 NO | |
 L | getAmountsOut | External | | NO | |
 L | getAmountsIn | External | | NO | |
**IRouter02** | Interface | IRouter01 |||
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External | | | | | | | | | | | | | | | |
| swapExactTokensForTokens | External | | | NO | |
| **IERC20** | Interface | |||
 L | totalSupply | External | | | NO | |
 L | decimals | External | | NO | |
 L | symbol | External | | NO | |
```



CONTRACT ASSESMENT

```
| name | External | NO |
 L | getOwner | External | | NO ! |
 | balanceOf | External | | NO ! |
 L | transfer | External | | | NO | |
 | allowance | External | | NO | | | | | | | | | | | | | |
 | approve | External | | | NO | |
 | transferFrom | External | | | | | | | | | | | | | | | |
**METADOGE2** | Implementation | Context, Ownable, IERC20 |||
 L | totalSupply | External | NO | |
 decimals | External | | NO | |
 | symbol | External | | NO | |
 L | name | External | | | NO | |
 L | getOwner | External | | NO | |
 L | allowance | External | | NO | |
 L | balanceOf | Public | | NO | |
 L | <Constructor> | Public | | | NO | |
 L | transfer | Public | | | NO | |
 L | approve | External | | | NO | |
 L | approve | Internal | | | | |
 L | transferFrom | External | | | NO | |
 L | isNoFeeWallet | External | | | NO | |
 L | setNoFeeWallet | Public | | | onlyOwner |
 └ | is buy | Internal 🔒 | | |
 └ | is sell | Internal 🔒 | | |
L | canSwap | Internal 🔒 | | |
 L | changeLpPair | External | | | onlyOwner |
 L | toggleCanSwapFees | External | | | onlyOwner |
 L | transfer | Internal 🔒 | 🛑 | |
 L | changeWallets | External | | | onlyOwner |
 └ | takeTaxes | Internal 🔒 | 🛑 | |
 └ | internalSwap | Internal 🔒 | ● | inSwapFlag |
 L | setPresaleAddress | External | | | onlyOwner |
 ### Legend
| Symbol | Meaning |
|:----|
       | Function can modify state |
      | Function is payable |
```



STATIC ANALYSIS

```
Reentrancy in METADOME2, transfer (address, address, uint250) (contracts/Token.sol#36-341):
Extending (application tracts/Token.sol#36-341):
Extending (application) (appl
```

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

No major issues were found in the output



Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x7ccd11ee8592d61a13aa9fad7c70e30ff16e57ff0e1796b04b7b5bb6534af382

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

https://testnet.bscscan.com/tx/0x244b38d6302738a466913ceffacbe069a8b5684b2aecda1a1177f8cfab17071e

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

https://testnet.bscscan.com/tx/0x2ca510c32952695990a4c8d12fceae2ed4abf898cd62c5088f4fe1efda6d3103

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

https://testnet.bscscan.com/tx/0xd14bc462f790f6f5b96d46d1416b9877a0111580b1004b02da3f4b4c385683b9

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

https://testnet.bscscan.com/tx/0xe620c6963fb3ec2b38b94e4d8cc03b 86b7b257d61ebedf61ec09a1a37b2fc209

6- Selling (5% tax) (passed):

https://testnet.bscscan.com/tx/0x962b38225c614625030669238e72fd aaa574e0a27c5a8916ac220a829da0ea7c



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

https://testnet.bscscan.com/tx/0xfcaa7ecc43e4210b2e2ea9b92ce9946 097c513687784f9c8c7d9a9a5b867866c

4- Internal swap (ETH sent to marketing wallet) (passed):

https://testnet.bscscan.com/address/0xC150d340dC05c73EBB35373d C5E06354bC6B95B3#internaltx



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