

# Smart Contract Audit

**FOR** 

# WojakMemeCoin

**DATED: 27 May 23'** 



# **AUDIT SUMMARY**

Project name - Wojak Meme Coin

**Date: 27** 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	1
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/0x2Daf26D9a1E4a2 CA8C172C90c095ea885aD984CD



# **Token Information**

Token Name: WojakMemeCoin

Token Symbol: WojakCoin

Decimals: 9

Token Supply: 1,000,000,000

### **Token Address:**

0xB6Af22E72Fb7ac5Bb8a4E30189CBc2448a16b454

### Checksum:

425447c30e0cd2536a177c87168b3952451df73a

### Owner:

0x54deB88004936e1d9A312ba1994B8Bf894B7eb72

## Deployer:

0x89F30534B602BE37e32d3576BFebc1099DB6b870



# **TOKEN OVERVIEW**

Fees:

Buy Fees: 0-10%

Sell Fees: 0-10%

Transfer Fees: 0-5%

Fees Privilege: Owner

Ownership: 0x54deB88004936e1d9A312ba1994B8Bf894B7eb72

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: including in fees

excluding from fees

initial distribution of the tokens

modifying fees



# **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.

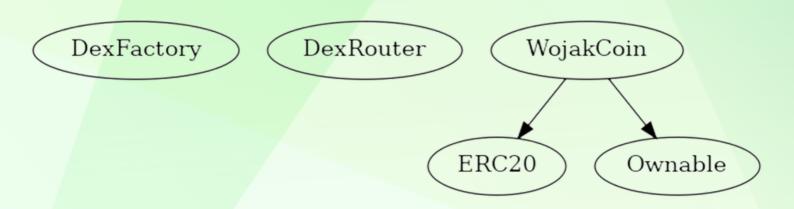
A vulnerability that has an informational character but is not affecting any of the code.

# **Findings**

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	1



# **INHERITANCE TREE**





# **POINTS TO NOTE**

- Owner is not able to change buy/sell fees over 12% and transfer fee over 5%
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to disable trades
- Owner is not able to set max buy/sell/transfer/hold amount to 0
- Owner is not able to mint new tokens
- Owner must enable trades manually



# **CONTRACT ASSESMENT**

```
| Contract |
            Type
                      Bases
      **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**DexFactory** | Interface | ||
| L | createPair | External | | | NO | |
**DexRouter** | Interface | |||
| | factory | External | NO | |
L | WETH | External | | NO | |
| L | addLiquidityETH | External | | 💵 |NO 📙 |
**WojakCoin** | Implementation | ERC20, Ownable ||
 | setmarketingWallet | External | | | onlyOwner |
 └ | setSellTaxes | External ! | ● | onlyOwner |
 L | setTransferFees | External | | | onlyOwner |
 L | setSwapTokensAtAmount | External | | • | onlyOwner |
 L | toggleSwapping | External | | | | onlyOwner |
 | setWhitelistStatus | External | | | | onlyOwner |
 L | checkWhitelist | External | | NO | |
 └ | takeTax | Internal 🔒 | 🛑 | |
L | transfer | Internal 🔒 | 🛑 | |
 └ | internalSwap | Internal 🔒 | 🛑 | |
 └ | swapToETH | Internal 🔓 | 🛑 | |
 L | < Receive Ether > | External | | SD | NO | |
 Symbol | Meaning |
|:-----
     | Function can modify state |
      | Function is payable |
```



# STATIC ANALYSIS

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/0x8fec88e4187cd83d44403b296a9069 8211ae06a2bc8ebefab94555cd106c6e00

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

https://testnet.bscscan.com/tx/0xdb5f6fd0df349ec84e3507532a9db4 8c460e2f106d48c7d228db2c3370f55aeb

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

https://testnet.bscscan.com/tx/0xafaafeba79de2f9b24694bebe860b5fba61051fa45a64f05fb575ae0af8560df

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

https://testnet.bscscan.com/tx/0x295119e035e70915132669d9fc7139d 6c330fff5f37dd1938944bd94b3ab0eb1

### 5- Buying when not excluded from fees (0-12% tax) (passed):

https://testnet.bscscan.com/tx/0xe647effac153c5f3f429673ce5453d8cb3f50788a0cc6b8c2c0bbe7b3c9dcd1a

### 6- Selling when not excluded from fees (0-12% tax) (passed):

https://testnet.bscscan.com/tx/0x66a1774f0c138990fefeb716d934f3d 932dfe5193007ed5f32559de10b01b035



# **FUNCTIONAL TESTING**

### 7- Transferring when not excluded from fees (0-5% tax) (passed):

https://testnet.bscscan.com/tx/0x41d1b584a089a9dfd1f5db57c532f3c70739a31634ad3e77ef2df06f70446ab9

### 8- Internal swap (marketing bnb) (passed):

https://testnet.bscscan.com/address/0xa480701222ba660e888cacc62f 53259c887cd824#internaltx



# MANUAL TESTING

# **Centralization – Trades must be enabled**

**Severity: Informative** 

function: startTrading Status: Not Resolved

Overview:

The smart contract owner must enable trades for holders. If trading remain disabled, no one would be able to buy/sell/transfer tokens.

```
function startTrading() external onlyOwner {
   require(!tradingEnabled, "Trading already enabled");
   tradingEnabled = true;
}
```

### Suggestion

To mitigate this centralization issue, we propose the following options:

- Renounce Ownership: Consider relinquishing control of the smart contract by renouncing ownership. This would remove the ability for a single entity to manipulate the router, reducing centralization risks.
- Multi-signature Wallet: Transfer ownership to a multi-signature wallet. This would require multiple approvals for any changes to the mainRouter, adding an additional layer of security and reducing the centralization risk.
- 3. Transfer ownership to a trusted and valid  $3^{\rm rd}$  party in order to guarantee enabling of the trades



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