

Smart Contract Audit

FOR White Rabbit

DATED: 4 June 23'



AUDIT SUMMARY

Project name - White Rabbit

Date: 4 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	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 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/0xe31faedd1fe0180f174a7ce540fba77d814ea911



Token Information

Token Name: White Rabbit

Token Symbol: WRB

Decimals: 18

Token Supply:100,000,000,000

Token Address:

0x55D004a30b4958f84df134a8082C0082c1923551

Checksum:

ba62deaafd161d4c3f54796e67e2c279bb97307d

Owner: -

0xf46e65701d892Bd3a67B5Fe909C50359394d0415



TOKEN OVERVIEW

Fees:

Buy Fees: 0-8%

Sell Fees: 0-8 %

Transfer Fees: 0%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: none

Blacklist: No

Other Priviliges: - changing swap threshold

- changing fees
- modifying swap settings
- enabling trades
- initial distribution of 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.

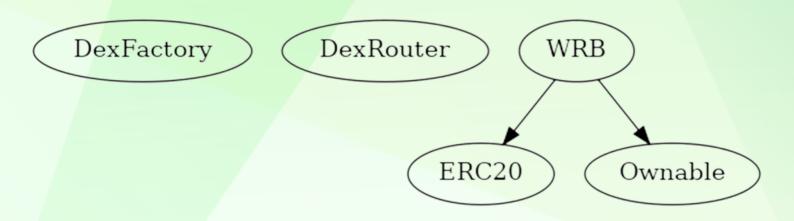
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set buy/sell taxes over 8%
- Owner is not ablet o set transfer taxes (0% forever)
- 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 to mint new tokens
- Owner is not able to disable trades



CONTRACT ASSESMENT

```
| Contract |
               Type
                            Bases
**Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
| **DexFactory** | Interface | ||| | | |
| L | createPair | External | | | NO | |
| **DexRouter** | Interface | |||
| | WETH | External | | NO | |
| L | addLiquidityETH | External | | 🔟 | NO | |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
| **WRB** | Implementation | ERC20, Ownable | | |
| L | <Constructor> | Public | | | | ERC20 |
| L | enableTrading | External | | | | onlyOwner |
| L | setMarketingWallet | External | | | | onlyOwner |
| L | setP2EWallet | External | | | | onlyOwner |
| L | setBuybackWallet | External | | | | onlyOwner |
| L | setBuyTaxes | External | | | onlyOwner |
| L | setSellTaxes | External | | | | onlyOwner |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | toggleSwapping | External | | | | onlyOwner |
| L | setWhitelistStatus | External | | | onlyOwner |
| L | checkWhitelist | External | | NO | |
| L | _takeTax | Internal 🦲 | 🛑 | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | internalSwap | Internal 🦰 | 🛑 | |
| L | swapAndLiquify | Internal 🦰 | 🛑 | |
| L | swapToETH | Internal 🦰 | 🛑 | |
| L | addLiquidity | Private 🦳 | 🧓 | |
| L | withdrawStuckETH | External | | ( ) | onlyOwner |
| L | withdrawStuckTokens | External | | | | onlyOwner |
| L | <Receive Ether> | External | | I NO | |
### Legend
| Symbol | Meaning |
|:-----|
   | Function can modify state |
   | Function is payable |
```



STATIC ANALYSIS

```
Context, meghati) (contracts/Tokens.ol/22-27) is never used and should be removed
Safeteth.du/unit250, unit250 (contracts/Tokens.ol/220-264) is never used and should be removed
Safeteth.du/unit250, unit250 (contracts/Tokens.ol/220-264) is never used and should be removed
Safeteth.du/unit250, unit250 (contracts/Token.ol/220-264) is never used and should be removed
Safeteth.du/unit250, unit250 (contracts/Token.ol/220-264) is never used and should be removed
Safeteth.du/unit250, unit250 (contracts/Token.ol/220-264) is never used and should be removed
Safeteth.mu/(unit250, unit250) (contracts/Token.ol/220-262) is never used and should be removed
Safeteth.mu/(unit250, unit250) (contracts/Token.ol/220-262) is never used and should be removed
Safeteth.mu/(unit250, unit250) (contracts/Token.ol/220-270) is never used and should be removed
Safeteth.tu/(unit250, unit250) (contracts/Token.ol/220-270) is never used and should be removed
Safeteth.tu/(unit250, unit250) (contracts/Token.ol/220-270) is never used and should be removed
Safeteth.tu/(unit250, unit250) (contracts/Token.ol/220-270) is never used and should be removed
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Safeteth.tu/(unit250, unit250) (contracts/Token.ol/220-270) is never used and should be removed
Safeteth.tu/(unit250, unit250) (contracts/Token.ol/220-270) is never used and should be removed
Safeteth.tu/(unit250, unit250) (contracts/Token.ol/2
```

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

No major issues were found in the output



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/0xd7374804b6b01f35990e437112 4d1d71b172ef224613e5e566eacbbb0b1c5841

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

https://testnet.bscscan.com/tx/0x74d36a45811057a36af202d1703bb387b1c4bc2541525f3cd191002eafa05fa3

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

https://testnet.bscscan.com/tx/0xbf1f8fc351efee2710e8415d3aee 97c6cca5330d954b4037225adbd4252a4487

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

https://testnet.bscscan.com/tx/0x76d7d3129209476a0f57fb4932 9b8775dc6815ef3b0b22973469a9786b00db4e

5- Buying when not excluded from fees (0-8% tax) (passed):

https://testnet.bscscan.com/tx/0x68d7bd4a4174147270d674734e 22dbc6ed7387075e735a11116feb6c637b75d3

6- Sellingwhen not excluded from fees (0-8% tax) (passed):

https://testnet.bscscan.com/tx/0x5421199e4778373c1e1b274af54 f25104784fc83542f2dc5e401ee84ebd68624



FUNCTIONAL TESTING

7- Transferring from a regular wallet (0% tax) (passed):

https://testnet.bscscan.com/tx/0x3cc7392c984c017632fbd4afa50efbefe542342dcca27cd3149cad15c6ca1280

8-Internal swap (BNB Fees and auto-liquidity) ((passed):

https://testnet.bscscan.com/tx/0x5421199e4778373c1e1b274af54 f25104784fc83542f2dc5e401ee84ebd68624



ISSUES FOUND

Centralization – Trades must be enabled

Severity: Informational

function: EnableTrading

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 enableTrading() external onlyOwner {
   require(!tradingStatus, "trading is already enabled");
   tradingStatus = true;
   emit TradingStarted(block.number);
}
```

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 3rd party in order to guarantee enabling of the trades



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