

TechRate
April, 2022



SMART CONTRACTS SECURITY AUDIT REPORT



Techrate_audits



Techrate



Techrate1

Audit Details



Audited project

YODL



Deployer address

0xf65ded3da1ec696593580045b7a019b90c0d2418



Client contacts:

YODL team



Blockchain

Binance Smart Chain



Project website:

<https://yodl.money>

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by YODL to perform an audit of smart contracts:

<https://bscscan.com/address/0xEd5d9FBC1fA94d79278761ae466C50b3C780111E#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts Details

Token contract details for 23.04.2022

Contract name YODL

Contract address 0xE5d9FBC1fA94d79278761ae466C50b3C780111E

Total supply 1,000,000,000,000,000

Token ticker YODL

Decimals 9

Token holders 3

Transactions count 4

Top 100 holders dominance 100.00%

WBNB 0xbb4cdb9cbd36b01bd1cbaebf2de08d9173bc095c

Autoliquidity receiver 0xf65ded3da1ec696593580045b7a019b90c0d2418

Marketing fee receiver 0xf65ded3da1ec696593580045b7a019b90c0d2418

pair 0x125abb78fd4e0d8c671adef1a195cd89d82b4500

Contract deployer address 0xf65ded3da1ec696593580045b7a019b90c0d2418

Owner address 0xf65ded3da1ec696593580045b7a019b90c0d2418

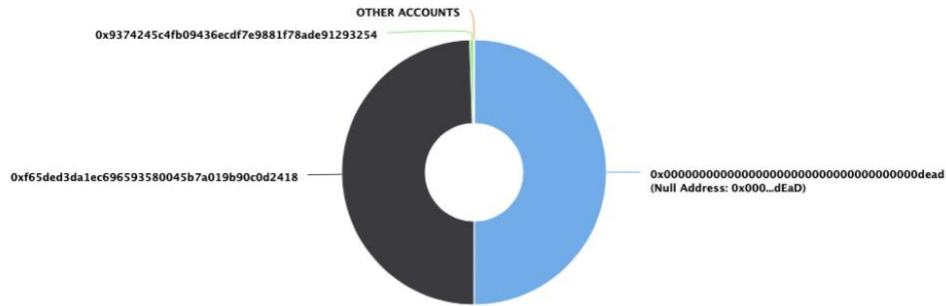
YODL Token Distribution

The top 100 holders collectively own 100.00% (1,000,000,000,000.00 Tokens) of YODL

Token Total Supply: 1,000,000,000,000.00 Token | Total Token Holders: 3

YODL Top 100 Token Holders

Source: BscScan.com



(A total of 1,000,000,000,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000.00 token)

YODL Contract Interaction Details

Time Series: Token Contract Overview

Tue 19, Apr 2022 - Tue 19, Apr 2022

Token Contract 0xEd5d9f8C1fA94d79278761ae466C50b3C780111E (YODL)
Source: BscScan.com



YODL Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000...dEaD	500,000,000,000,000	50.0000%
2	0xf65ded3da1ec696593580045b7a019b90cd2418	495,000,000,000,000	49.5000%
3	0x9374245c4fb09436ecd7e9881f78ade91293254	5,000,000,000,000	0.5000%

Contract functions details

+ [Lib] SafeMath

- [Int] tryAdd
- [Int] trySub
- [Int] tryMul
- [Int] tryDiv
- [Int] tryMod
- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] mod
- [Int] sub
- [Int] div
- [Int] mod

+ [Int] IBEP20

- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ Auth

- [Pub] <Constructor> #
- [Pub] authorize #
 - modifiers: onlyOwner
- [Pub] unauthorize #
 - modifiers: onlyOwner
- [Pub] isOwner
- [Pub] isAuthorized
- [Pub] transferOwnership #
 - modifiers: onlyOwner

+ [Int] IDEXFactory

- [Ext] createPair #

- + [Int] IDEXRouter
 - [Ext] factory
 - [Ext] WETH
 - [Ext] addLiquidity #
 - [Ext] addLiquidityETH (\$)
 - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
 - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

- + [Int] IDividendDistributor
 - [Ext] setDistributionCriteria #
 - [Ext] setShare #
 - [Ext] deposit (\$)
 - [Ext] process #

- + DividendDistributor (IDividendDistributor)
 - [Pub] <Constructor> #
 - [Ext] setDistributionCriteria #
 - modifiers: onlyToken
 - [Ext] setShare #
 - modifiers: onlyToken
 - [Ext] deposit (\$)
 - modifiers: onlyToken
 - [Ext] process #
 - modifiers: onlyToken
 - [Int] shouldDistribute
 - [Int] distributeDividend #
 - [Ext] claimDividend #
 - [Pub] getUnpaidEarnings
 - [Int] getCumulativeDividends
 - [Int] addShareholder #
 - [Int] removeShareholder #

- + YODL (IBEP20, Auth)
 - [Pub] <Constructor> #
 - modifiers: Auth
 - [Ext] blacklistAddress #
 - modifiers: authorized
 - [Ext] getBlacklist
 - [Ext] getLengthOfBlacklist
 - [Ext] setTransferEnabled #
 - modifiers: authorized
 - [Ext] <Fallback> (\$)
 - [Ext] totalSupply
 - [Ext] decimals

- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Pub] balanceOf
- [Ext] allowance
- [Pub] approve #
- [Ext] approveMax #
- [Ext] transfer #
- [Ext] transferFrom #
- [Int] _transferFrom #
- [Int] _basicTransfer #
- [Int] checkTxLimit
- [Int] shouldTakeFee
- [Pub] getTotalFee
- [Pub] getMultipliedFee
- [Int] takeFee #
- [Int] shouldSwapBack
- [Int] swapBack #
 - modifiers: swapping
- [Int] shouldAutoBuyback
- [Ext] triggerZeusBuyback #
 - modifiers: authorized
- [Ext] clearBuybackMultiplier #
 - modifiers: authorized
- [Int] triggerAutoBuyback #
- [Int] buyTokens #
 - modifiers: swapping
- [Ext] setAutoBuybackSettings #
 - modifiers: authorized
- [Ext] setBuybackMultiplierSettings #
 - modifiers: authorized
- [Int] launched
- [Pub] launch #
 - modifiers: authorized
- [Ext] setTxLimit #
 - modifiers: authorized
- [Ext] setIsDividendExempt #
 - modifiers: authorized
- [Ext] setIsFeeExempt #
 - modifiers: authorized
- [Ext] setIsTxLimitExempt #
 - modifiers: authorized
- [Ext] setFees #
 - modifiers: authorized
- [Ext] setFeeReceivers #

- modifiers: authorized
- [Ext] setSwapBackSettings #
 - modifiers: authorized
- [Ext] setTargetLiquidity #
 - modifiers: authorized
- [Ext] setDistributionCriteria #
 - modifiers: authorized
- [Ext] setDistributorSettings #
 - modifiers: authorized
- [Pub] getCirculatingSupply
- [Pub] getLiquidityBacking
- [Pub] isOverLiquified

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

No low severity issues found.

Notes:

- No transfer event emitted when basic transfer called.

Owner privileges (In the period when the owner is not renounced)

- Owner can authorize / unauthorize addresses.
- Authorized addresses can call triggerZeusBuyback that's initiate buyback.
- Authorized addresses can clear buyback multiplier.
- Authorized addresses can change auto buyback settings.
- Authorized addresses can change buyback multiplier settings.
- Authorized addresses can change the maximum transaction amount.
- Authorized addresses can include in and exclude from dividends.
- Authorized addresses can include in and exclude from fee.
- Authorized addresses can include in and exclude from transaction amount limit.
- Authorized addresses can enable/disable transfers.
- Authorized addresses can change fees.
- Authorized addresses can blacklist addresses.
- Authorized addresses can change fee receivers.
- Authorized addresses can change swap threshold and disable/enable swap.
- Authorized addresses can change target liquidity values.
- Authorized addresses can change distribution criteria.
- Authorized addresses can change distribution GAS.

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are NOT provided by the team.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.