



**TechRate**  
AUDIT COMPANY

# Smart Contract Security Audit

TechRate

July, 2021

# Audit Details



Audited project

**RiseUp**



Deployer address

**0xcaC8C87d664F0c510DF5Ec320387daD4f27E4e07**



Client contacts:

**RiseUp team**



Blockchain

**Binance Smart Chain**



Project website:

**<https://riseupofficial.com>**

# 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 RiseUp to perform an audit of smart contracts:

<https://bscscan.com/address/0x61c911b6d1b46dcadbb61bfa7100290a6faad53d#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 14.07.2021

Contract name	RiseUp
Contract address	0x61C911B6D1B46DcaDbB61bFa7100290a6faaD53D
Total supply	1,000,000,000,000,000
Token ticker	RiseUp
Decimals	9
Token holders	2,170
Transactions count	22,409
Top 100 holders dominance	97.63%
Marketing fee	2
Dev fee	2
Total fee	12
Uniswap V2 pair	0x00d97a4c58ef33c3a56a5d0e3d4cde68baf3b115
Contract deployer address	0xcaC8C87d664F0c510DF5Ec320387daD4f27E4e07
Contract's current owner address	0xcac8c87d664f0c510df5ec320387dad4f27e4e07

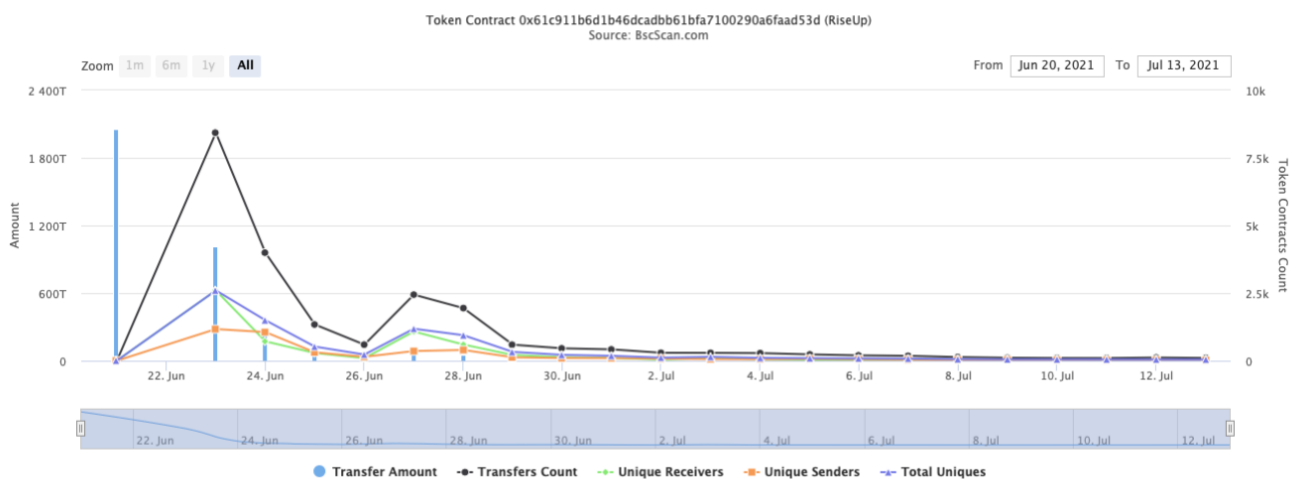
💡 The top 100 holders collectively own 97.63% (976,261,143,042,391.00 Tokens) of RiseUp

💡 Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 2,170






### Time Series: Token Contract Overview

Mon 21, Jun 2021 - Tue 13, Jul 2021







# RiseUp Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">Burn Address</a>	337,723,693,659,955.376214052	33.7724%
2	 <a href="#">0x0adc6506af489fb02e8702373ce377059eacff39</a>	286,581,394,399,999.9996148	28.6581%
3	 <a href="#">PancakeSwap V2: RiseUp 10</a>	179,530,007,878,335.94179122	17.9530%
4	 <a href="#">0x61c911b6d1b46dcadb61bfa7100290a6aad53d</a>	67,445,714,021,416.198664943	6.7446%
5	<a href="#">0xeb81453b1214af82151021a782895db1f2eab56d</a>	30,000,000,000,000	3.0000%
6	<a href="#">0xcb0ba8b42576fa47c36923e0028f65eb2152a3e7</a>	11,023,869,988,078.364489047	1.1024%
7	<a href="#">0xa647b4b1a8a387c9d65524597b003ab861d2b736</a>	6,616,208,450,550	0.6616%
8	<a href="#">0x7993eb5cdb3cd99c363aa99edef9bc09e37bf7a1</a>	5,518,900,650,571.741795705	0.5519%
9	<a href="#">0xc74a4734bbc1badd504aa4e8d4fcd03dd8e90e0</a>	5,128,190,112,190.718681639	0.5128%
10	<a href="#">0x4a36b3643e7e049fd0726e7736d60d89ea13ba8e</a>	2,978,172,256,994.965080062	0.2978%

# RiseUp LP Token Holders

Rank	Address	Quantity	Percentage
1	 <a href="#">0xf487f81f128a728b937b8959edad3979ed412509</a>	10,827.859509390672868681	<u>99.9921%</u>
2	<a href="#">0x07d80ae6f36a5e08dca74ce884a24d39db9934ed</a>	0.854718681100873032	<u>0.0079%</u>
3	 <a href="#">0x00</a>	0.000000000000001	<u>0.0000%</u>



# Contract functions details

## + Context

- [Int] \_msgSender
- [Int] \_msgData

## + [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

## + [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

## + [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] \_functionCallWithValue #

## + Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
  - modifiers: onlyOwner
- [Pub] transferOwnership #
  - modifiers: onlyOwner
- [Pub] getUnlockTime
- [Pub] getTime
- [Pub] lock #
  - modifiers: onlyOwner
- [Pub] unlock #

## + [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #



- [Ext] setFeeTo #
- [Ext] setFeeToSetter #
- + [Int] IUniswapV2Pair
  - [Ext] name
  - [Ext] symbol
  - [Ext] decimals
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transfer #
  - [Ext] transferFrom #
  - [Ext] DOMAIN\_SEPARATOR
  - [Ext] PERMIT\_TYPEHASH
  - [Ext] nonces
  - [Ext] permit #
  - [Ext] MINIMUM\_LIQUIDITY
  - [Ext] factory
  - [Ext] token0
  - [Ext] token1
  - [Ext] getReserves
  - [Ext] price0CumulativeLast
  - [Ext] price1CumulativeLast
  - [Ext] kLast
  - [Ext] burn #
  - [Ext] swap #
  - [Ext] skim #
  - [Ext] sync #
  - [Ext] initialize #
- + [Int] IUniswapV2Router01
  - [Ext] factory
  - [Ext] WETH
  - [Ext] addLiquidity #
  - [Ext] addLiquidityETH (\$)
  - [Ext] removeLiquidity #
  - [Ext] removeLiquidityETH #
  - [Ext] removeLiquidityWithPermit #
  - [Ext] removeLiquidityETHWithPermit #
  - [Ext] swapExactTokensForTokens #
  - [Ext] swapTokensForExactTokens #
  - [Ext] swapExactETHForTokens (\$)
  - [Ext] swapTokensForExactETH #
  - [Ext] swapExactTokensForETH #
  - [Ext] swapETHForExactTokens (\$)
  - [Ext] quote
  - [Ext] getAmountOut
  - [Ext] getAmountIn
  - [Ext] getAmountsOut
  - [Ext] getAmountsIn
- + [Int] IUniswapV2Router02 (IUniswapV2Router01)
  - [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
  - [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #

- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + RiseUp (Context, IERC20, Ownable)
  - [Pub] <Constructor> #
  - [Pub] name
  - [Pub] symbol
  - [Pub] decimals
  - [Pub] totalSupply
  - [Pub] balanceOf
  - [Pub] transfer #
  - [Pub] allowance
  - [Pub] approve #
  - [Pub] transferFrom #
  - [Pub] increaseAllowance #
  - [Pub] decreaseAllowance #
  - [Pub] minimumTokensBeforeSwapAmount
  - [Pub] buyBackLimitAmount
  - [Prv] deliver #
  - [Prv] reflectionFromToken
  - [Prv] tokenFromReflection
  - [Prv] \_approve #
  - [Prv] \_transfer #
  - [Prv] isBuybackEligible
  - [Prv] swapTokens #
    - modifiers: lockTheSwap
  - [Prv] buyBackTokens #
    - modifiers: lockTheSwap
  - [Prv] swapTokensForEth #
  - [Prv] swapETHForTokens #
  - [Prv] \_tokenTransfer #
  - [Prv] \_transferStandard #
  - [Prv] \_transferToExcluded #
  - [Prv] \_transferFromExcluded #
  - [Prv] \_transferBothExcluded #
  - [Prv] \_getValues
  - [Prv] \_getTValues
  - [Prv] \_getRValues
  - [Prv] \_getRate
  - [Prv] \_getCurrentSupply
  - [Prv] \_takeLiquidity #
  - [Prv] calculateFee
  - [Prv] removeAllFee #
  - [Prv] restoreAllFee #
  - [Pub] isExcludedFromFee
  - [Pub] excludeFromFee #
    - modifiers: onlyOwner
  - [Pub] includeInFee #
    - modifiers: onlyOwner
  - [Pub] blacklistAddress #
    - modifiers: onlyOwner
  - [Ext] setTotalFeePercent #
    - modifiers: onlyOwner
  - [Ext] setMaxTxAmount #

- modifiers: onlyOwner
- [Ext] setMarketingFeePercent #
  - modifiers: onlyOwner
- [Ext] setDevFeePercent #
  - modifiers: onlyOwner
- [Ext] setNumTokensSellToAddToLiquidity #
  - modifiers: onlyOwner
- [Ext] setBuybackLimit #
  - modifiers: onlyOwner
- [Ext] setMarketingAddress #
  - modifiers: onlyOwner
- [Ext] setDevAddress #
  - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
  - modifiers: onlyOwner
- [Pub] setIgnoreBuybackEligibilityCheck #
  - modifiers: onlyOwner
- [Pub] setBuyBackEnabled #
  - modifiers: onlyOwner
- [Pub] buyBackAndBurnTokens #
  - modifiers: onlyOwner
- [Ext] prepareForPreSale #
  - modifiers: onlyOwner
- [Ext] prepareForLaunch #
  - modifiers: onlyOwner
- [Prv] transferToAddressETH #
- [Ext] <Fallback> (\$)

(\$)= 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:

- There is no reflect fee in the contract.
- if (balance > buyBackLimit.div(100)) is unnecessary.
- Function deliver(), reflectionFromToken() is unused.
- Checking addresses to be excluded is reward is also unnecessary, because there is no function to exclude from reward, and no addresses are excluded by default.

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

- Owner can change the marketing, dev and total fees.
- Owner can change the maximum transaction amount.
- Owner can exclude from the fee.
- Owner can blacklist addresses.
- Owner can change minimum number of tokens to add to liquidity.
- Owner can change buyBackLimit.
- Owner can change marketing and dev address.
- Owner can change ignoreBuybackEligibilityCheck value.
- Owner can enable and disable buyBack.
- Owner can manually buyback tokens.
- Owner can enable launch and presale modes.
- Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.

# Conclusion

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

Liquidity locking details provided by the team:

<https://dxsale.app/app/pages/dxlockview?id=4174&add=0&type=lpdefi&chain=BSC>

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## *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.*