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AUDIT COMPANY

Smart Contract Security Audit

TechRate

January, 2022

Audit Details

Audited project

VCGamers

Deployer address

0x137e64afb1f3e7219b170d9011ef4e2e7814c88b

Client contacts:

VCGamers team

Blockchain

Binance Smart Chain

Project website:

https://vcgamers.io/

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 VCGamers to perform an audit of smart contracts:

https://bscscan.com/address/0x1F36FB2D91d9951Cf58aE4c1956C0b77e224F1E9#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 07.01.2022

Contract name	VCGamers
Contract address	0x1F36FB2D91d9951Cf58aE4c1956C0b77e224F1E9
Total supply	100,000,000
Token ticker	VCG
Decimals	18
Token holders	2
Transactions count	2
Top 100 holders dominance	100.00%
Tax collector	0x5fc0753b20bf71d63ea379cbd5c6db68586237af
Tax	6
Tax divider	100
Pair	0xae3691adfec53fe142ae0595f91811b1113d886f
Contract deployer address	0x137e64afb1f3e7219b170d9011ef4e2e7814c88b
Contract's current owner address	0x137e64afb1f3e7219b170d9011ef4e2e7814c88b

VCGamers Token Distribution

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

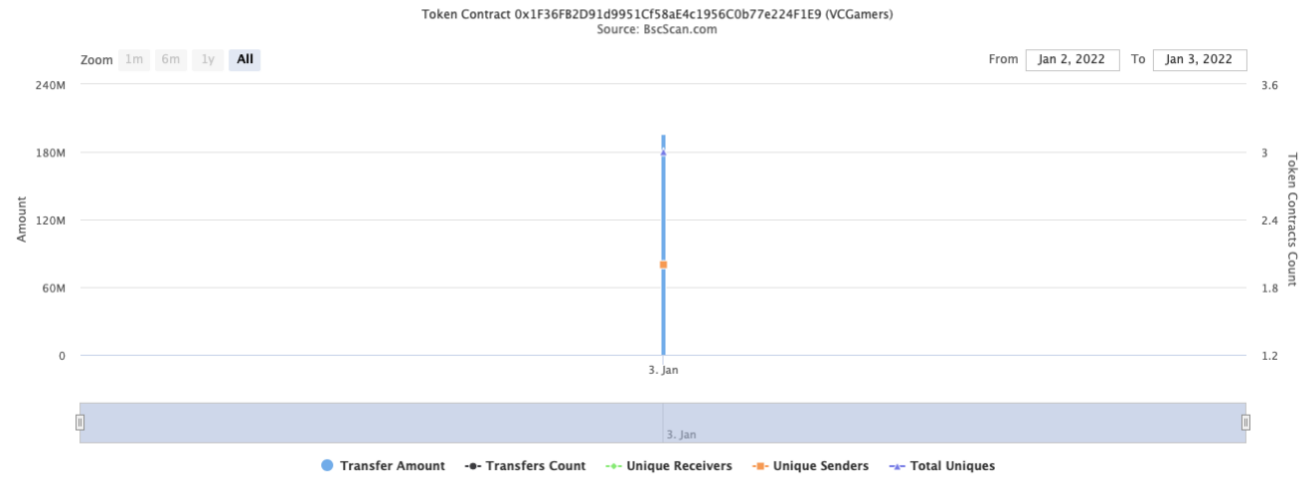
Token Total Supply: 100,000,000.00 Token | Total Token Holders: 2

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

VCGamers Contract Interaction Details

Time Series: Token Contract Overview

Mon 3, Jan 2022 - Mon 3, Jan 2022



VCGamers Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0xed7e7aa86eba84fa301a331bf9db9e3ad176302a	96,280,000	96.2800%
2	0x137e64afb1f3e7219b170d9011ef4e2e7814c88b	3,720,000	3.7200%

Contract functions details

+ [Int] IERC20
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #

+ [Int] IERC20Metadata (IERC20)
  - [Ext] name
  - [Ext] symbol
  - [Ext] decimals

+ Context
  - [Int] _msgSender
  - [Int] _msgData

+ Ownable (Context)
  - [Pub] <Constructor> #
  - [Pub] owner
  - [Pub] renounceOwnership #
    - modifiers: onlyOwner
  - [Pub] transferOwnership #
    - modifiers: onlyOwner
  - [Int] _transferOwnership #

+ [Int] IFactory
  - [Ext] feeTo
  - [Ext] feeToSetter
  - [Ext] getPair
  - [Ext] allPairs
  - [Ext] allPairsLength
  - [Ext] createPair #
  - [Ext] setFeeTo #
  - [Ext] setFeeToSetter #

+ [Int] IRouter
  - [Ext] factory
  - [Ext] WETH
  - [Ext] addLiquidity #
  - [Ext] addLiquidityETH ($)
  - [Ext] swapExactTokensForTokens #
  - [Ext] swapTokensForExactTokens #
  - [Ext] swapExactETHForTokens ($)
  - [Ext] swapTokensForExactETH #
  - [Ext] swapExactTokensForETH #
  - [Ext] swapETHForExactTokens ($)
  - [Ext] quote
  - [Ext] getAmountOut
  - [Ext] getAmountIn
  - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #

  - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens ($)
  - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
  - [Ext] getAmountsOut
  - [Ext] getAmountsIn

+ [Lib] SafeMath
  - [Int] add
  - [Int] sub
  - [Int] sub
  - [Int] mul
  - [Int] div
  - [Int] div

+ TaxCollector (Ownable)
  - [Pub] setTeam #
    - modifiers: onlyOwner
  - [Pub] setPartnership #
    - modifiers: onlyOwner
  - [Pub] setRND #
    - modifiers: onlyOwner
  - [Ext] <Fallback> ($)
  - [Pub] getBalance
  - [Pub] distribute #
    - modifiers: onlyOwner,swapping
  - [Pub] kill #
    - modifiers: onlyOwner

+ [Int] ITaxCollector
  - [Ext] setTeam #
  - [Ext] setPartnership #
  - [Ext] setRND #
  - [Ext] getBalance
  - [Ext] distribute #
  - [Ext] kill #
  - [Ext] transferOwnership #

+ VCG (Context, Ownable, IERC20, IERC20Metadata)
  - [Pub] setTax #
    - modifiers: onlyOwner
  - [Pub] setTaxDivider #
    - modifiers: onlyOwner
  - [Pub] setTaxCollector #
    - modifiers: onlyOwner
  - [Pub] changeExcludeBuyFee #
    - modifiers: onlyOwner
  - [Pub] changeExcludeSellFee #
    - modifiers: onlyOwner
  - [Pub] <Constructor> #
  - [Ext] <Fallback> ($)
  - [Pub] name
  - [Pub] symbol
  - [Pub] decimals
  - [Pub] totalSupply
  - [Pub] balanceOf
  - [Pub] allowance

- [Pub] currentBalance
- [Pub] contractBalance
- [Pub] taxBalance
  - modifiers: onlyOwner
- [Pub] distributeTax #
  - modifiers: onlyOwner
- [Pub] setTeamTax #
  - modifiers: onlyOwner
- [Pub] setPartnershipTax #
  - modifiers: onlyOwner
- [Pub] setRNDTax #
  - modifiers: onlyOwner
- [Pub] setTaxTransferOwner #
  - modifiers: onlyOwner
- [Pub] transfer #
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Int] _transferTax #
- [Prv] takeFee #
- [Prv] distributeFee #
  - modifiers: swapping
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #

($) = 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.

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

- Owner can change the tax and tax divider.
- Owner can change tax collector address.
- Owner can exclude from the buy/sell fee.
- Owner can manually distribute collected taxes.
- Owner can change team, RND and partnership fee and addresses.

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details 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.