TechRate
May, 2022

SMART CONTRACTS SECURITY AUDIT REPORT

Techrate_audits Techrate Techrate1

Audit Details

Audited project

Babyzoro inu

Deployer address

0x853fc9a67dec934ea23e36eae277918b84a8a11e

Client contacts:

Babyzoro inu team

Blockchain

Binance Smart Chain

Project website:

Not provided

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 Babyzoro inu to perform an audit of smart contracts:
https://bscscan.com/address/0xb9a22a7d3f195c3f1a4f3b984ad79aabd51ae7ea#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 02.05.2022

Contract name	Babyzoro inu
Contract address	0xb9a22A7d3f195c3F1a4F3B984aD79Aabd51ae7EA
Total supply	100,000,000,000,000,000
Token ticker	Babyzoroinu
Decimals	9
Token holders	2,595
Transactions count	20,699
Top 100 holders dominance	82.55%
Uniswap V2 pair	0x2be001fbe604eb02acdab64bf93914ffc58e993d
Contract deployer address	0x853fc9a67dec934ea23e36eae277918b84a8a11e
Owner address	0x0000000000000000000000000000000000000000

Babyzoro inu Token Distribution

The top 100 holders collectively own 82.55% (82,547,312,436,236,800.00 Tokens) of Babyzoro inu

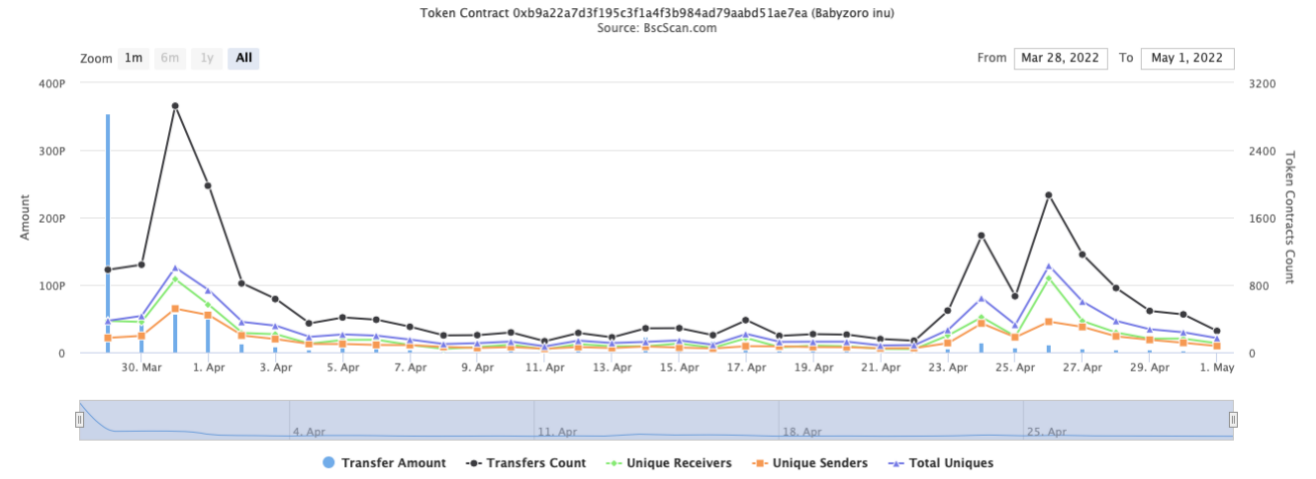
Token Total Supply: 100,000,000,000,000,000.00 Token | Total Token Holders: 2,595

(A total of 82,547,312,436,236,800.00 tokens held by the top 100 accounts from the total supply of 100,000,000,000,000,000.00 token)

Babyzoro inu Contract Interaction Details

Time Series: Token Contract Overview

Tue 29, Mar 2022 - Sun 1, May 2022



Babyzoro inu Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000...dEaD	48,662,762,287,903,200.291867665	48.6628%
2	PancakeSwap V2: Babyzoroinu 5	2,742,962,063,342,320.21557453	2.7430%
3	0x005a0330abf31cf4f22261f1206c6e495dd48bb3	844,700,450,079,770.21430461	0.8447%
4	0x1384a68fb6d2278509949e114efa0ddfe056de06	712,514,310,787,598.948128379	0.7125%
5	0x5110c400b0c1ac4ad835b6548b6f16488006773c	616,735,732,068,457.92728076	0.6167%
6	0x0f5d3909a95c72f2965bf1b86c02ddb24d41d502	600,402,972,978,490.715725547	0.6004%
7	0x474a963901db7eeb9c4ff2df667a8ed240bd8c2c	597,664,388,935,876.161404289	0.5977%
8	0x8858155e499da1122b08c80500ea2ba08b4927cf	591,286,570,360,767.758093686	0.5913%
9	0xad3d38c12486e705a3a1e3c22c41835d4d02c3f1	561,554,207,356,720.578237403	0.5616%
10	0x992a95bd6a251f2237a518ba55c021f1d5075f25	543,666,116,579,867.142686399	0.5437%

Contract functions details

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

+ [Int] Token
  - [Ext] transferFrom #
  - [Ext] transfer #

+ [Int] IUniswapV2Factory
  - [Ext] createPair #

+ [Int] IUniswapV2Router02
  - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
  - [Ext] factory
  - [Ext] WETH
  - [Ext] addLiquidityETH ($)

+ Context
  - [Int] _msgSender

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

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

+ Babyzoroinu (Context, IERC20, Ownable)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Prv] tokenFromReflection
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapTokensForEth #
  - modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Prv] _tokenTransfer #
- [Pub] rescueForeignTokens #
  - modifiers: onlyDev
- [Pub] setNewDevAddress #
  - modifiers: onlyDev
- [Pub] setNewMarketingAddress #
  - modifiers: onlyDev
- [Prv] _transferStandard #
- [Prv] _takeTeam #
- [Prv] _reflectFee #
- [Ext] <Fallback> ($)
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Ext] manualswap #
- [Ext] manualsend #
- [Pub] setFee #
  - modifiers: onlyDev
- [Pub] toggleSwap #
  - modifiers: onlyDev
- [Pub] excludeMultipleAccountsFromFees #
  - modifiers: onlyOwner

($) = 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.**	Low issues
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

1. Out of gas

Issue:

- The function `excludeMultipleAccountsFromFees()` uses the loop to exclude addresses from the fee. Function will be aborted with OUT_OF_GAS exception if there will be a long addresses list.

Recommendation:
Check that the array length is not too big.

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

- Owner can withdraw contract tokens.
- Owner can change development address.
- Owner can change marketing address.
- Owner can change fees.
- Owner can enable/disable swap.
- Owner can manually swap and send tokens.

Conclusion

Smart contracts contain low 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.