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TechRate

Smart Contract Security Audit

<u>TechRate</u> July, 2021

Audit Details



Audited project

BabyBoxer



Deployer address

0xC549d47cCFEc53912C92b3DDab4fDBC868E5163f



Client contacts:

BabyBoxer team



Blockchain

Binance Smart Chain



Project website:

Not provided by BabyBoxer team

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 BabyBoxer to perform an audit of smart contracts:

https://bscscan.com/address/0x283171EAbbf29e0E478F627F2737210C54b972 **EF#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.

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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.

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Contracts Details

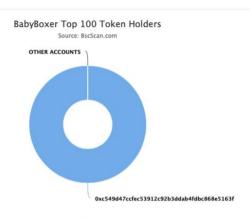
Token contract details for 12.07.2021

Contract name	BabyBoxer
Contract address	0x283171EAbbf29e0E478F627F2737210C54b972EF
Total supply	888,888,888,888,888,000,0
Token ticker	BBoxer
Decimals	9
Token holders	100.00%
Transactions count	1
Top 100 holders dominance	1
Liquidity fee	2
Tax fee	2
Ecosystem address	0x05bb50d8c1d4061630563ad63e72fe6d0229427c
Uniswap V2 pair	0xa6a97e473a9274990c2cc2a2d4d545685a6d7110
Contract deployer address	0xC549d47cCFEc53912C92b3DDab4fDBC868E5163f
Contract's current owner address	0xc549d47ccfec53912c92b3ddab4fdbc868e5163f

BabyBoxer Token Distribution

The top 100 holders collectively own 100.00% (888,888,888,888,888,000,000,000.00 Tokens) of BabyBoxer

O Token Total Supply: 888,888,888,888,888,000,000,000.00 Token | Total Token Holders: 1



(A total of 888,888,888,888,888,888,000,000,000.000 tokens held by the top 100 accounts from the total supply of 888,888,888,888,888,888,000,000,000.00 token)

BabyBoxer Top 10 Token Holders

Rank Address

Quantity (Token) Percent

1. 0xc549d47ccfec53912c92b3ddab4fdbc868e5163f 888,888,888,888,888,888,000,000,000 100.0000%

Contract functions details

- + Ownable (Context)
 - [Pub] <Constructor> #
 - [Pub] owner
 - [Pub] renounceOwnership #
 modifiers: onlyOwner
 - [Pub] transferOwnership # - modifiers: onlyOwner
 - [Prv] _setOwner #
- + [Int] ISwapV2Factory
 - [Ext] createPair #
- + [Int] ISwapRouterV2
 - [Ext] WETH
 - [Ext] factory
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
 - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
 - [Ext] addLiquidityETH (\$)
- + [Int] IEcosystem
 - [Ext] isWhitelisted #
- + [Int] IBEP20
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + Context
 - [Int] _msgSender
- + BEP20Base (Context, IBEP20)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] allowance
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Pub] approve #
 - [Pub] transfer #
 - [Pub] transferFrom #
 - [Int] _approve #
 - [Int] _transfer #

- + BabyBoxer (BEP20Base, Ownable)
 - [Pub] <Constructor> # - modifiers: BEP20Base
 - [Ext] <Fallback> (\$)
 - [Pub] balanceOf
 - [Pub] isExcluded
 - [Pub] addToExcludeList # - modifiers: onlyOwner
 - [Pub] removeFromExcludeList # - modifiers: onlyOwner
 - [Pub] getAccumulatedAmount
 - [Pub] claimAccumulatedAmount #
 modifiers: lockSwap
 - [Int] _transfer #
 - [Prv] _swapAndDistribute #
 modifiers: lockSwap
 - [Prv] _swapContractTokensForBNB #
 - [Prv] _transferStandard #
 - [Prv] _transferToExcluded #
 - [Prv] _transferFromExcluded #
 - [Prv] _transferBothExcluded #
 - [Prv] _getValues
 - [Prv] _getTValues
 - [Prv] _getRValues
 - [Prv] _getRate
 - [Prv] _tokenFromReflection
 - [Prv] _distributeFees #

(\$) = 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.

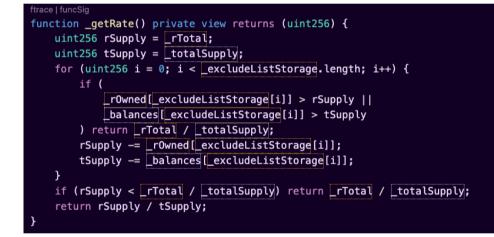
Medium Severity Issues

No medium severity issues found.

Low Severity Issues

1. Out of gas

• The function _getRate() also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.



Recommendation:

Check that the excluded array length is not too big.

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

• Owner can exclude and include in reward.

Conclusion

Smart contracts contain low 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.