



TechRate
AUDIT COMPANY

Smart Contract Security Audit

TechRate

November, 2021

Audit Details



Audited project

BabyFlokiZilla



Deployer address

0xadaeed99c52c005c1d33004e985657751e9b9dd3



Client contacts:

BabyFlokiZilla team



Blockchain

Binance Smart Chain



Project website:

<https://babyflokizilla.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 BabyFlokiZilla to perform an audit of smart contracts:

<https://bscscan.com/address/0x9dc8ae7f7f88e1344c289d75cd0d4ce07dc4aae6#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 14.11.2021

Contract name	BabyFlokiZilla
Contract address	0x9DC8Ae7F7f88e1344c289d75cd0D4Ce07Dc4Aae6
Total supply	69,000,000,000,000,000,000,000
Token ticker	BabyFlokiZilla
Decimals	9
Token holders	11,575
Transactions count	67,659
Top 100 holders dominance	74.18%
Marketing fee receiver	0xae99b3b2a9ca1d107df5de561b7aa7c4b716686c
Multiplied fee	0
Autoliquidity fee receiver	0xadaeed99c52c005c1d33004e985657751e9b9dd3
Pair	0x444cb97036d544710201f2e1d452fbb28a893763
Contract deployer address	0xadaeed99c52c005c1d33004e985657751e9b9dd3
Contract's current owner address	0xadaeed99c52c005c1d33004e985657751e9b9dd3

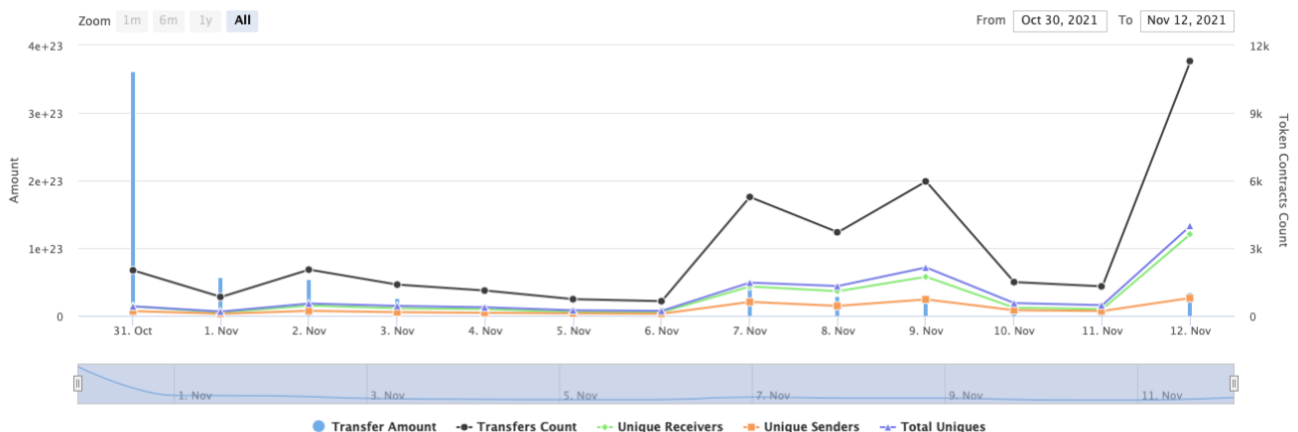
💡 Token Total Supply: 69,000,000,000,000,000,000.00 Token | Total Token Holders: 11,576

Source: BscScan.com




Sun 31, Oct 2021 - Fri 12, Nov 2021

Source: BscScan.com



BabyFlokiZilla Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	16,560,195,360,000,000,000,000	24.0003%
2	 PancakeSwap V2: BabyFlokiZilla 3	5,063,275,222,793,500,000,000.558049163	7.3381%
3	0xefeb305863c99ee8b100b46d39daf78e387cfdc1	3,169,314,389,200,000,000,000.23	4.5932%
4	0x7fb0b8019c61c56c820fb206c1d67c3bed64225a	2,561,257,484,109,710,000,000.828705074	3.7120%
5	0xc5a03a6dd8afb769fd90a52c2c33ebc6818c62a7	1,903,561,746,582,830,000,000.273383046	2.7588%
6	0xae99b3b2a9ca1d107df5de561b7aa7c4b716686c	1,579,533,882,446,470,000,000.19763492	2.2892%
7	0xd0ed14b898fc8a6e68c0b86447902b7e237a2ad7	1,234,156,350,173,680,000,000.441756974	1.7886%
8	0x441e67e9c2a6a9e82701acbd58fd660123c9a027	1,063,848,896,000,000,000,000	1.5418%
9	0x8bd9d967516531c4a058c200267b8959d3ca4afc	1,031,610,740,369,390,000,000.193712988	1.4951%
10	0xb5313d2dd794fb6c60179686a32d7f2bf2fc7b76	937,506,319,707,554,000,000.735080988	1.3587%



Contract functions details

+ [Lib] SafeMath

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

+ [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 #
 - modifiers: onlyToken
 - [Pub] getUnpaidEarnings
 - [Int] getCumulativeDividends
 - [Int] addShareholder #
 - [Int] removeShareholder #
- + BabyFlokiZilla (IBEP20, Auth)
- [Pub] <Constructor> #
 - modifiers: Auth
 - [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] triggerManualBuyback #
 - modifiers: authorized
 - [Ext] clearBuybackMultiplier #
 - modifiers: authorized
 - [Int] triggerAutoBuyback #
 - [Int] buyTokens #
 - modifiers: swapping
 - [Ext] setAutoBuybackSettings #
 - modifiers: authorized
 - [Ext] setBuybackMultiplierSettings #
 - modifiers: authorized
 - [Int] launched

- [Int] launch #
- [Ext] setTxLimit #
 - modifiers: authorized
- [Ext] setLsDividendExempt #
 - modifiers: authorized
- [Ext] setLsFeeExempt #
 - modifiers: authorized
- [Ext] setLsTxLimitExempt #
 - modifiers: authorized
- [Ext] setFees #
 - modifiers: authorized
- [Ext] setFeeReceivers #
 - modifiers: authorized
- [Ext] setSwapBackSettings #
 - modifiers: authorized
- [Ext] setTargetLiquidity #
 - modifiers: authorized
- [Ext] manualSend #
 - modifiers: authorized
- [Ext] setDistributionCriteria #
 - modifiers: authorized
- [Ext] claimDividend #
- [Pub] getUnpaidEarnings
- [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.

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

- Owner can call `triggerManualBuyback` that's initiate buyback.
- Owner can clear buyback multiplier.
- Owner can change auto buyback settings.
- Owner can change buyback multiplier settings.
- Owner can change the maximum transaction amount.
- Owner can include in and exclude from dividends.
- Owner can include in and exclude from fee and transaction amount.
- Owner can change fees.
- Owner can change fee receivers.
- Owner can change swap threshold and disable/enable swap.
- Owner can change target liquidity values.
- Owner can change distribution criteria.
- Owner can change distribution GAS.
- Owner can withdraw contract BNBs to marketing address.

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 provided by the team:

<https://mudra.website/?certificate=yes&type=0&lp=0x444cb97036d544710201f2e1d452fbb28a893763>

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.