



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

DOGEFOOD



Deployer address

0x67856ebdcf036828142c80a7556de6838966df8f



Client contacts:

DOGEFOOD team



Blockchain

Binance Smart Chain



Project website:

<https://www.dogefoodbsc.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 DOGEFOOD to perform an audit of smart contracts:

<https://bscscan.com/address/0x1bec41a36356d5574aeb068b599ab7e48dd008b8#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

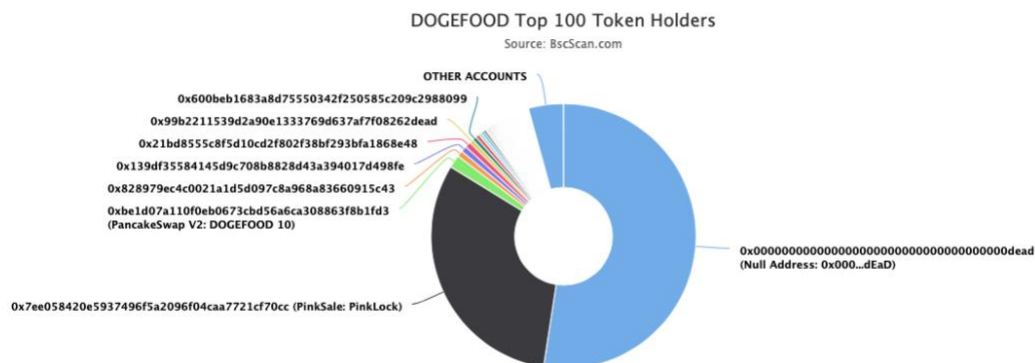
Token contract details for 09.02.2022

Contract name	DOGEFOOD
Contract address	0x1bEc41a36356D5574Aeb068B599Ab7e48dD008b8
Total supply	420,000,000,000,000,000
Token ticker	DOGEFOOD
Decimals	9
Token holders	10,042
Transactions count	36,330
Top 100 holders dominance	95.73%
Total tax selling	10
Total tax buying	8
Marketing wallet address	0x74b355a8241c69223ed917c2773523bd66a16831
Uniswap V2 pair	0xbe1d07a110f0eb0673cbd56a6ca308863f8b1fd3
Contract deployer address	0x67856ebdcf036828142c80a7556de6838966df8f
Contract's current owner address	0x00

DOGEFOOD Token Distribution

💡 The top 100 holders collectively own 95.73% (402,049,488,706,691,000.00 Tokens) of DOGEFOOD

💡 Token Total Supply: 420,000,000,000,000.00 Token | Total Token Holders: 10,042

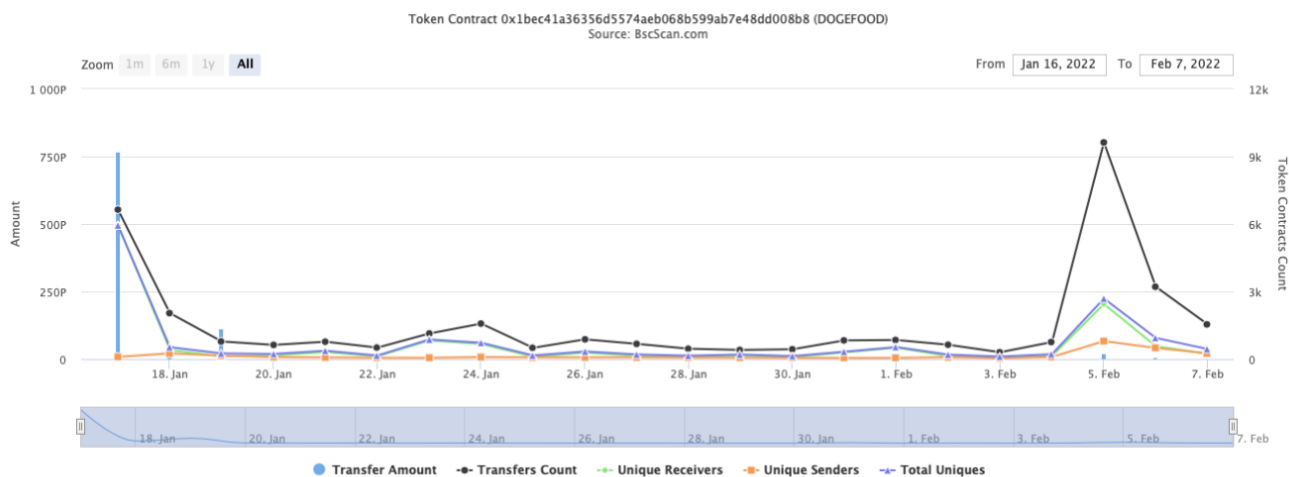


(A total of 402,049,488,706.691,000.00 tokens held by the top 100 accounts from the total supply of 420,000,000,000,000.00 token)



DOGEFOOD Contract Interaction Details

Time Series: Token Contract Overview

Mon 17. Jan 2022 - Mon 7. Feb 2022



DOGEFOOD Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000...dEaD	220,160,783,874,307,000.700038626	52.4192%
2	 PinkSale: PinkLock	131,708,011,681,514,000.799	31.3591%
3	 PancakeSwap V2: DOGEFOOD 10	6,577,094,037,388,060.128628859	1.5660%
4	0x828979ec4c0021a1d5d097c8a968a83660915c43	3,092,303,641,262,510	0.7363%
5	0x139df35584145d9c708b8828d43a394017d498fe	2,999,994,579,999,580	0.7143%
6	0x21bd8555c8f5d10cd2f802f38bf293bfa1868e48	2,996,386,538,176,530.638098154	0.7134%
7	0x99b2211539d2a90e1333769d637af7f08262dead	2,054,256,694,457,740.508833813	0.4891%
8	0x600beb1683a8d75550342f250585c209c2988099	2,023,071,299,500,090	0.4817%
9	0xffdbd77a511780449071d660dc8c070952739410	2,001,160,367,691,240.510730594	0.4765%
10	0xf42fc8c8925080cff8ac5b997fbaa678bb614db3	1,478,233,491,203,350	0.3520%



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] waiveOwnership #
 - 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 #
- + DOGEFOOD (Context, IERC20, Ownable)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] allowance
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Pub] minimumTokensBeforeSwapAmount
 - [Pub] approve #
 - [Prv] _approve #
 - [Pub] setMarketPairStatus #
 - modifiers: onlyOwner
 - [Ext] setLsTxLimitExempt #
 - modifiers: onlyOwner
 - [Pub] setLsExcludedFromFee #
 - modifiers: onlyOwner
 - [Ext] setBuyTaxes #
 - modifiers: onlyOwner
 - [Ext] setSellTaxes #
 - modifiers: onlyOwner
 - [Ext] setDistributionSettings #
 - modifiers: onlyOwner
 - [Ext] setMaxTxAmount #
 - modifiers: onlyOwner
 - [Ext] enableDisableWalletLimit #
 - modifiers: onlyOwner
 - [Ext] setLsWalletLimitExempt #
 - modifiers: onlyOwner
 - [Ext] setWalletLimit #
 - modifiers: onlyOwner
 - [Ext] setNumTokensBeforeSwap #
 - modifiers: onlyOwner
 - [Ext] setMarketingWalletAddress #
 - modifiers: onlyOwner
 - [Ext] setTeamWalletAddress #
 - modifiers: onlyOwner
 - [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
 - [Pub] setSwapAndLiquifyByLimitOnly #
 - modifiers: onlyOwner
 - [Pub] getCirculatingSupply
 - [Prv] transferToAddressETH #
 - [Pub] changeRouterVersion #
 - modifiers: onlyOwner
 - [Ext] <Fallback> (\$)
 - [Pub] transfer #
 - [Pub] transferFrom #
 - [Prv] _transfer #

- [Int]_basicTransfer #
- [Prv] swapAndLiquify #
 - modifiers: lockTheSwap
- [Prv] swapTokensForEth #
- [Prv] addLiquidity #
- [Int] takeFee #

(\$) = 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 marketing, team and liquidity fees.
- Owner can change the maximum transaction amount.
- Owner can exclude from the fee and maxTX.
- Owner can change marketing and team wallets.
- Owner can change minimum number of tokens before swap.
- Owner can change Uniswap router address.
- Owner can change swap and liquify settings.
- Owner can include in isMarketPair array.
- Owner can enable/disable wallet limit, exclude from it and change this limit value.
- 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.

Liquidity locking details are provided by the team:

<https://www.pinksale.finance/#/pinklock/record/14720?chain=BSC>

Ownership renounce details are provided by the team:

<https://bscscan.com/tx/0x6595d5ccb0dd8abf9bbefc257097579ca87e515a1d39614127e2dbd3288e682d>

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.

