



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

CakeDogeParty



Deployer address

0x1B0A73531C6D38996e57769b77D81f5bFAC3b43A



Client contacts:

CakeDogeParty team



Blockchain

Binance Smart Chain



Project website:

<https://cakedogeparty.club/>

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 CakeDogeParty to perform an audit of smart contracts:

<https://bscscan.com/address/0xd2E8d79cF18B6239A8ce283d1FC25c83E6D102a0#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 13.08.2021

Contract name	CakeDogeParty
Contract address	0xd2E8d79cF18B6239A8ce283d1FC25c83E6D102a0
Total supply	100,000,000,000
Token ticker	CDP
Decimals	18
Token holders	2
Transactions count	2
Top 100 holders dominance	100.00%
Liquidity fee	0
Cake reward _{bl} fee	0
Marketing fee	0
Total fees	0
Dividend tracker	0x276a8865fb6090be700df142afadf6eb58768cee
Uniswap V2 pair	0x84e48eb4c446a080508e052fab475cb401563674
Contract deployer address	0x1B0A73531C6D38996e57769b77D81f5bFAC3b43A
Contract's current owner address	0x1B0A73531C6D38996e57769b77D81f5bFAC3b43A

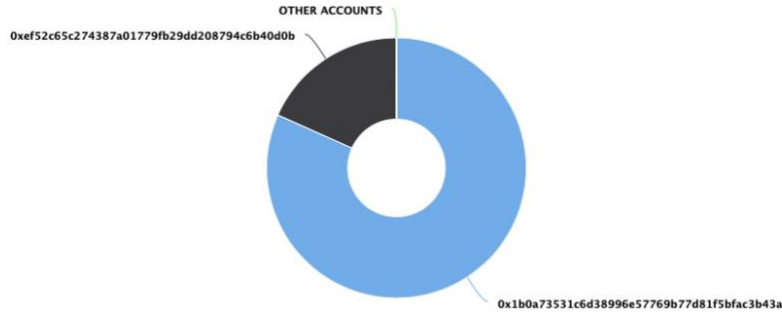
CakeDogeParty Token Distribution

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

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

CakeDogeParty Top 100 Token Holders

Source: BscScan.com



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

CakeDogeParty Contract Interaction Details


Time Series: Token Contract Overview

Thu 5, Aug 2021 - Sat 7, Aug 2021

Token Contract 0xd2E8d79cf1886239A8ce283d1FC25c83E6D102a0 (CakeDogeParty)
Source: BscScan.com



CakeDogeParty Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x1b0a73531c6d38996e57769b77d81f5bfac3b43a	81,668,512,000	81.6685%
2	 0xef52c65c274387a01779fb29dd208794c6b40d0b	18,331,488,000	18.3315%



Contract functions details

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Lib] SafeMathUint

- [Int] toInt256Safe

+ [Lib] SafeMathInt

- [Int] mul
- [Int] div
- [Int] sub
- [Int] add
- [Int] abs
- [Int] toUint256Safe

+ [Lib] SafeMath

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

+ Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
 - modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner

+ [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 #

+ [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] mint #
- [Ext] burn #
- [Ext] swap #
- [Ext] skim #
- [Ext] sync #
- [Ext] initialize #

+ [Int] IUniswapV2Factory

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

+ [Lib] IterableMapping

- [Pub] get
- [Pub] getIndexOfKey
- [Pub] getKeyAtIndex
- [Pub] size
- [Pub] set #

- [Pub] remove #
- + [Int] IERC20Metadata (IERC20)
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + ERC20 (Context, IERC20, IERC20Metadata)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Int] _transfer #
 - [Int] _mint #
 - [Int] _burn #
 - [Int] _approve #
 - [Int] _beforeTokenTransfer #
- + [Int] DividendPayingTokenOptionalInterface
 - [Ext] withdrawableDividendOf
 - [Ext] withdrawnDividendOf
 - [Ext] accumulativeDividendOf
- + [Int] DividendPayingTokenInterface
 - [Ext] dividendOf
 - [Ext] withdrawDividend #
- + DividendPayingToken (ERC20, Ownable, DividendPayingTokenInterface, DividendPayingTokenOptionalInterface)
 - [Pub] <Constructor> #
 - modifiers: ERC20
 - [Pub] distributeCAKEDividends #
 - modifiers: onlyOwner
 - [Pub] withdrawDividend #
 - [Int] _withdrawDividendOfUser #
 - [Pub] dividendOf
 - [Pub] withdrawableDividendOf
 - [Pub] withdrawnDividendOf
 - [Pub] accumulativeDividendOf

- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _setBalance #
- + CakeDogeParty (ERC20, Ownable)
 - [Pub] <Constructor> #
 - modifiers: ERC20
 - [Ext] <Fallback> (\$)
 - [Pub] updateDividendTracker #
 - modifiers: onlyOwner
 - [Pub] updateUniswapV2Router #
 - modifiers: onlyOwner
 - [Pub] excludeFromFees #
 - modifiers: onlyOwner
 - [Pub] excludeMultipleAccountsFromFees #
 - modifiers: onlyOwner
 - [Ext] setMarketingWallet #
 - modifiers: onlyOwner
 - [Ext] setCAKERewardsFee #
 - modifiers: onlyOwner
 - [Ext] setLiquiditFee #
 - modifiers: onlyOwner
 - [Ext] setMarketingFee #
 - modifiers: onlyOwner
 - [Pub] setAutomatedMarketMakerPair #
 - modifiers: onlyOwner
 - [Ext] blacklistAddress #
 - modifiers: onlyOwner
 - [Prv] _setAutomatedMarketMakerPair #
 - [Pub] updateGasForProcessing #
 - modifiers: onlyOwner
 - [Ext] updateClaimWait #
 - modifiers: onlyOwner
 - [Ext] getClaimWait
 - [Ext] getTotalDividendsDistributed
 - [Pub] isExcludedFromFees
 - [Pub] withdrawableDividendOf
 - [Pub] dividendTokenBalanceOf
 - [Ext] excludeFromDividends #
 - modifiers: onlyOwner
 - [Ext] getAccountDividendsInfo
 - [Ext] getAccountDividendsInfoAtIndex
 - [Ext] processDividendTracker #
 - [Ext] claim #
 - [Ext] getLastProcessedIndex
 - [Ext] getNumberOfDividendTokenHolders
 - [Int] _transfer #
 - [Prv] swapAndSendToFee #
 - [Prv] swapAndLiquify #
 - [Prv] swapTokensForEth #
 - [Prv] swapTokensForCake #
 - [Prv] addLiquidity #
 - [Prv] swapAndSendDividends #

+ **CakeDogePartyDividendTracker** (Ownable, DividendPayingToken)

- **[Pub]** <Constructor> #
 - modifiers: DividendPayingToken
- **[Int]** _transfer #
- **[Pub]** withdrawDividend #
- **[Ext]** excludeFromDividends #
 - modifiers: onlyOwner
- **[Ext]** updateClaimWait #
 - modifiers: onlyOwner
- **[Ext]** getLastProcessedIndex
- **[Ext]** getNumberOfTokenHolders
- **[Pub]** getAccount
- **[Pub]** getAccountAtIndex
- **[Prv]** canAutoClaim
- **[Ext]** setBalance #
 - modifiers: onlyOwner
- **[Pub]** process #
- **[Pub]** processAccount #
 - 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.	Low issues
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. Wrong distributeDividends

(Low issue due to dividendTracker is not verified, otherwise it will be high issue)

Issue:

- The function `distributeCAKEDividends(uint256 amount)` has public access modifier. So that, anybody can call this function with any amount and put at risk part of the contract logic.

Recommendation:

Change access modifier for this function to avoid whole access to the function.

2. Out of gas

Issue:

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

Recommendation:

Be careful about accounts array length.

Notes:

- Dividend tracker may be changed. So that logic of setBalance and other functions could be another and not audited.

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

- Owner can change dividend tracker.
- Owner can change Uniswap router address.
- Owner can exclude from the fees.
- Owner can blacklist addresses.
- Owner can change liquidity, marketing and CAKE reward fees.
- Owner can exclude and include addresses in automatedMarketMakerPairs array.
- Owner can exclude from dividends.
- Owner can change marketing wallet.
- Owner can change gas for processing.
- Owner can update claimWait value.

Conclusion

Smart contracts do not contain high 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.

