



CakeMonster - Audit Report

SUMMARY



CakeMonster is a new token that has a unique mechanism featuring a unique transaction tax and forced sells of inactive users.

For this audit, we analyzed CakeMonster's token smart contract, provided to us by their team.

Notes on the Contract:

- *The initial supply of the token is 10 billion.*
- *No mint functions are readily accessible, though minting occurs during some of the protocol logic.*
- *Only an internal burn function exists, meaning no one can burn their own tokens directly.*

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protocol to add liquidity.

- *Another 2.5% of each transfer will be burned, reducing the total supply.*
- *Any user can initiate a forcedSell on a target user's address if they have not moved their tokens in 50 days. Whitelisted users cannot be a target.*
- *Callers of the forcedSell function will be rewarded with some tokens as a stipend for gas fees incurred and for helping manage the protocol.*
- *A forced sell results in the sale of the target user's tokens for BNB, then burning the number of tokens sold from the LP; essentially extracting some BNB from the pool.*
- *Any user can call the manageReserve() function, which tells the Reserve to add 10% of its balance to liquidity via selling half for BNB and adding. The function also tells the Reserve to purchase and store the Reserve asset. The caller of the function is added to a waiting list in order to mitigate abuse/spam. When cleared from the list, that user is allowed to call the manageReserve function again.*
- *One the total supply drops below 1 million tokens, two years have passed, or no management activity has happened in 124 days; anyone can call finish() which removes liquidity added by the Reserve, burns the resulting CakeMonster tokens, and disallows trading.*
- *After finish() has been called, users who hold tokens can call claim() to receive a proportional amount of the asset stored in the Reserve and a proportional amount of the new supply.*
- *35 days after finish() is called, anyone can call bigReset() which resets*

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- *The owner has the ability to whitelist addresses, allowing them to call the forcedSell function; and to create a snapshot of the state of the contract.*
- *Utilization of SafeMath to prevent overflows.*

Audit Findings Summary

- *No security issues from external attackers were identified.*
- *As with any presale, ensure trust in the team prior to investing.*
- *Date: May 27th, 2021*

EXTERNAL THREAT RESULTS

Vulnerability Category	Notes	Result
Arbitrary Storage Write	N/A	PASS
Arbitrary Jump	N/A	PASS
Delegate Call to Untrusted Contract	N/A	PASS
Dependence on Predictable Variables	N/A	PASS
Deprecated Opcodes	N/A	PASS
Ether Thief	N/A	PASS

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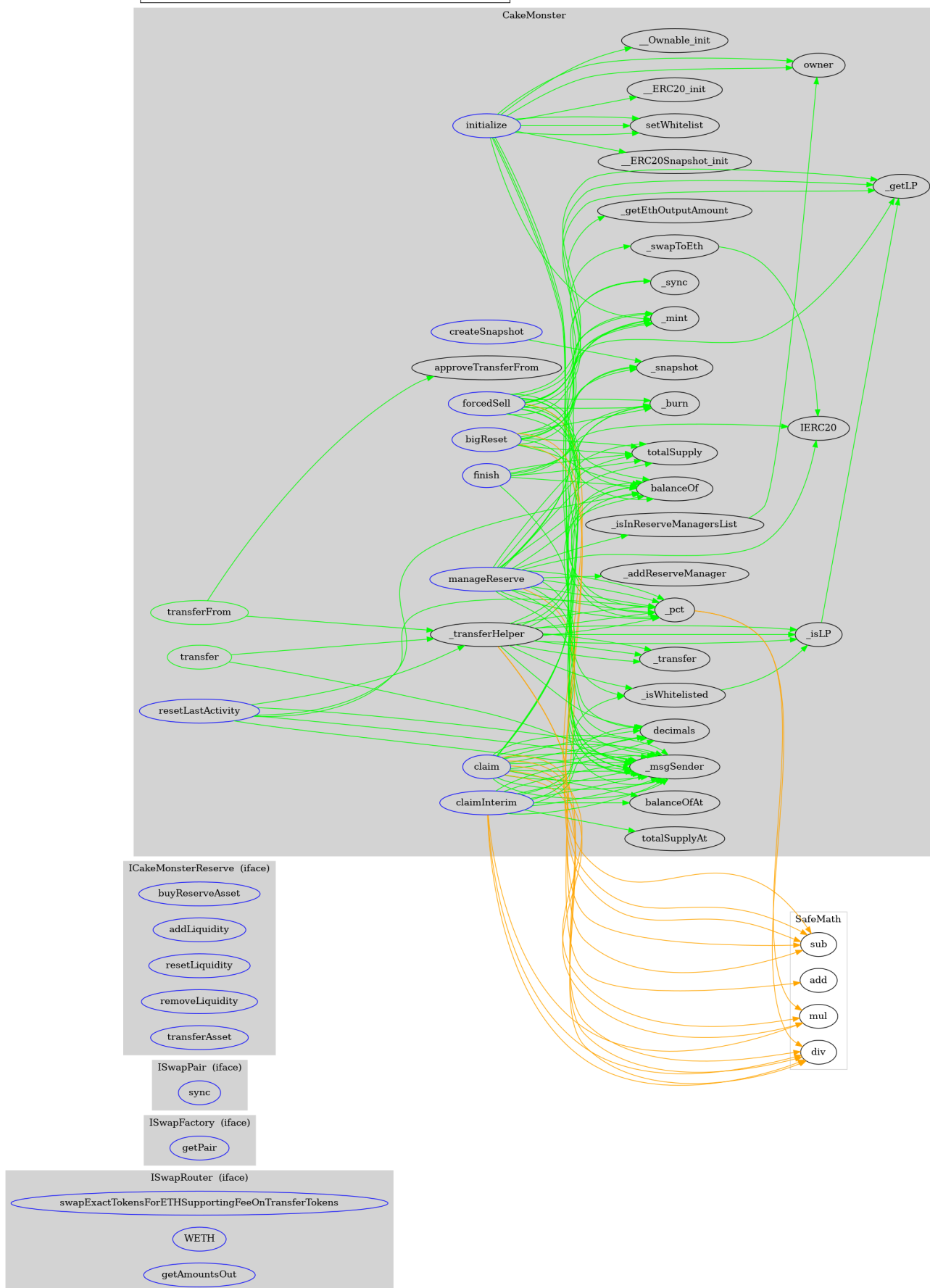
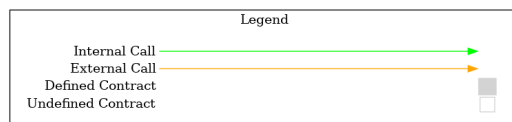
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Vulnerability Category	Notes	Result
External Calls	N/A	PASS
Integer Over/Underflow	N/A	PASS
Multiple Sends	N/A	PASS
Suicide	N/A	PASS
State Change External Calls	N/A	Pass
Unchecked Retval	N/A	PASS
User Supplied Assertion	N/A	PASS
Critical Solidity Compiler	N/A	PASS
Overall Contract Safety		PASS

FUNCTION GRAPH

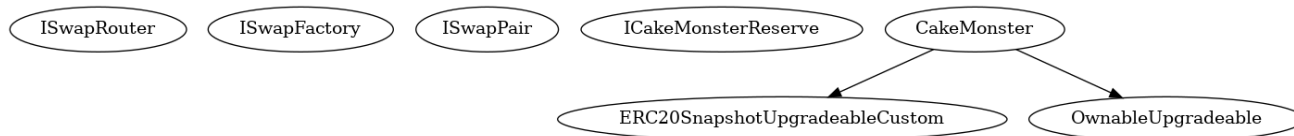
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FUNCTIONS OVERVIEW

(\$) = payable function

= non-constant function

Int = Internal

Ext = External

Pub = Public

+ [Int] ISwapRouter

- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens
- [Ext] WETH
- [Ext] getAmountsOut

+ [Int] ISwapFactory

- [Ext] getPair

+ [Int] ISwapPair

- [Ext] sync #

+ [Int] ICakeMonsterReserve

- [Ext] buyReserveAsset #
- [Ext] addLiquidity #
- [Ext] resetLiquidity #
- [Ext] removeLiquidity #
- [Ext] transferAsset #

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```
- [Pub] setWhitelist #
    - modifiers: onlyOwner
- [Ext] createSnapshot #
    - modifiers: onlyOwner
- [Ext] resetLastActivity #
- [Pub] transfer #
- [Pub] transferFrom #
- [Ext] forcedSell #
- [Ext] manageReserve #
- [Ext] finish #
- [Ext] claim #
- [Ext] claimInterim #
- [Ext] bigReset #
- [Prv] _transferHelper #
- [Prv] _isWhitelisted
- [Prv] _isLP
- [Prv] _getLP
- [Prv] isInReserveManagersList
```

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