

AUDIT REPORT Secure Wise SMART CONTRACT AUDIT





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Overview

Token Name: METACUBEZ (MCubez)

Methodology: Automated Analysis, Manual Code Review

Language: Solidity

Contract Address: 0x4352e3CBBa64Ba07401b8928885528dEaE66C2c3

ContractLink: https://bscscan.com/address/0x4352e3CBBa64Ba07401b8928885528dEaE66C2c3

Network: Binance Smart Chain (BSC)

Decimals: 4

Supply: 200.000.000

Website: https://metacubez.io/

Twitter: https://twitter.com/metacubez

Telegram: https://t.me/metacubezchat

Report Date: August 31, 2022

Quick Result

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits

Owner Privileges



Auto liquidity is going to an externally owned account



The owner can exclude accounts from rewards



The owner can exclude accounts from fees



Current fees 7% and it can not be set



The owner can change swap settings

Auditing Approach and Methodologies

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.

Risk Classification

High: Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.

Medium: Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.

Low: Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

Symbol	Meaning
•	Function can modify state
	Function is payable

PancakeRouter01	Interface				
L	factory	External [NO	
L	WETH	External N			
L	addLiquidity	External		NO	
L	addLiquidityETH	External	-	NO	
L	removeLiquidity	External	•	NO	
L	removeLiquidityETH	External		NO	
L	removeLiquidityWithPermit	External	•	NO	
L	removeLiquidityETHWithPermit	External	•	NO	
L	swapExactTokensForTokens	External	•	NO	
L	swapTokensForExactTokens	External	•	NO	
L	swapExactETHForTokens	External	100	NO	
L	swapTokensForExactETH	External [•	NO	
L	swapExactTokensForETH	External	•	NO	
L	swapETHForExactTokens	External [100	NO	
L	quote	External [NO	
L	getAmountOut	External		NO	
L	getAmountin	External		NO	
L	getAmountsOut	External [NO	
L	getAmountsIn	External		NO	
PancakeRouter02	Interface	IPancakeRouter01			
L	remove Liquidity ETH Supporting Fee On Transfer Tokens	External	•	NO	
L	$remove Liquidity {\it ETHWithPermitSupportingFeeOnTransferTokens}$	External	•	NO	
L	$swap {\tt ExactTokensForTokensSupportingFeeOnTransferTokens}$	External	•	NO	
L	$swap {\sf ExactETHForTokensSupportingFeeOnTransferTokens}$	External	m	NO	
L	$swap {\sf ExactTokensFor ETHSupportingFeeOnTransferTokens}$	External	•	NO	
Context	Implementation				
L	_msgSender	Internal 🦰			
L	_msgData	Internal 🦰			

Ownable	Implementation	Context		
L		Public	•	NO
L	owner	Public		NO
L	_checkOwner	Internal 🐣		
L	renounceOwnership	Public I	•	onlyOwne
L	transferOwnership	Public	•	onlyOwne
L	_transferOwnership	Internal 🧂	•	
IERC20	Interface			
L	totalSupply	External		NO
L	balanceOf	External		NO
L	transfer	External	•	NO
L	allowance	External		NO
L	approve	External	•	NO
L	transferFrom	External	•	NO
SafeMath	Library			
L	tryAdd	Internal 🦰		
L	trySub	Internal 🦺		
L	tryMul	Internal 🖺		
L	tryDiv	Internal 🖺		
L	tryMod	Internal 🦰		
L	add	Internal 🖺		
L	sub	Internal 🖺		
L	mul	Internal 🖺		
L	div	Internal 🦰		
L	mod	Internal 🖺		
L	sub	Internal 🖺		
L	div	Internal 🖺		
L	mod	Internal 🦰		
Address	Library			
L	isContract	Internal 🖺		
L	sendValue	Internal 🦺		
L	functionCall	Internal 🦲		
L	functionCall	Internal 🦲	•	
L	functionCallWithValue	Internal 🖺	•	
L	functionCallWithValue	Internal 🖺	•	
L	functionStaticCall	Internal 🖺		
L	functionStaticCall	Internal 🧂		
L	functionDelegateCall	Internal 🗂		
L	functionDelegateCall	Internal 🖺		
L	verifyCallResult	Internal 🖺		

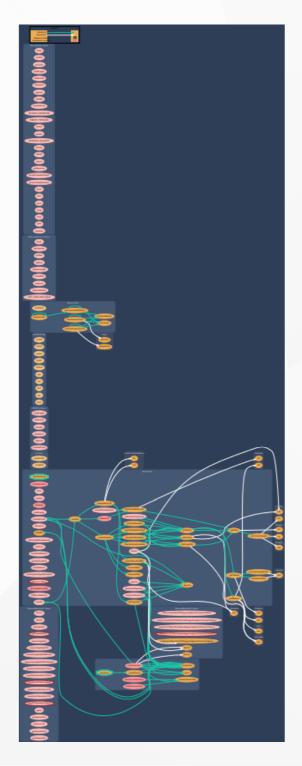
PancakeFactory	Interface		
L	feeTo	External	NO
L	feeToSetter	External	NO
L	getPair	External	NO
L	allPairs	External	NO
L	allPairsLength	External	NO
L	createPair	External [NO
L	setFeeTo	External [NO
L	setFeeToSetter	External [NO!
L	INITCODEPAIR_HASH	External	NO
MetaCubez	Implementation	IERC20, Ownable	
L		Public	NO!
L	name	External	NO!
L	symbol	External	NO!
L	decimals	Public	NO
L	totalSupply	External	NO
L	balanceOf	Public	NO
L	transfer	External	NO!
L	allowance	External	NO!
L	approve	External [NO!
L	transferFrom	External [NO!
L	increaseAllowance	External [NO!
L	decreaseAllowance	External [NO!
L	isExcludedFromReward	External	NO
L	totalFees	External	NO.
L	deliver	External [NO!
L	reflectionFromToken	External	NO

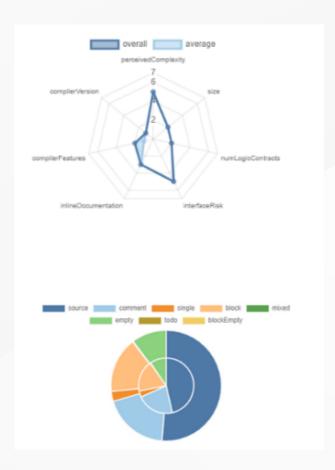
L	tokenFromReflection	Public I		NO
L	excludeFromReward	External	•	onlyOwner
L	includeInReward	External	•	onlyOwner
L	_transferBothExcluded	Private 😷	•	
L	excludeFromFee	External	•	onlyOwner
L	includeInFee	External	•	onlyOwner
L	setSwapAndLiquifyEnabled	External		onlyOwner
L		External	100	NO
L	_reflectFee	Private 💣		
L	_getValues	Private 💣		
L	_getTValues	Private 🕙		
L	_getRValues	Private 🕙		
L	_getRate	Private 💣		
L	_getCurrentSupply	Private 😷		
L	_takeLiquidity	Private 🕙		
L	calculateTaxFee	Private 👚		
L	calculateLiquidityFee	Private 🕙		
L	removeAllFee	Private 😷		
L	restoreAllFee	Private 👚		
L	isExcludedFromFee	Public		NO
L	_approve	Private 👚		
L	_transfer	Private 😷		
L	swapAndLiquify	Private 😷		lockTheSwa
L	swapTokensForBNB	Private 👚		
L	addLiquidity	Private 👚		
L	_tokenTransfer	Private 😷		
L	transferStandard	Private Private		

PancakePair	Interface		
L	name	External	NO!
L	symbol	External	NO!
L	decimals	External	NO!
L	totalSupply	External	NO!
L	balanceOf	External	NO!
L	allowance	External	NO
L	approve	External [NO!
L	transfer	External [● NO!
L	transferFrom	External .	NO!
L	DOMAIN_SEPARATOR	External [NO
L	PERMIT_TYPEHASH	External [NO
L	nonces	External	NO
L	permit	External .	NO!
L	MINIMUM_LIQUIDITY	External	NO
L	factory	External	NO
L	token0	External	NO
L	token1	External	NO
L	getReserves	External	NO
L	price0CumulativeLast	External	NO
L	price1CumulativeLast	External	NO
L	kLast	External .	NO
L	mint	External	NO!
L	burn	External [NO!
L	swap	External [● NO!
L	skim	External	NO!
L	sync	External	NO!
L	initialize	External [NO!

Inheritance Graph

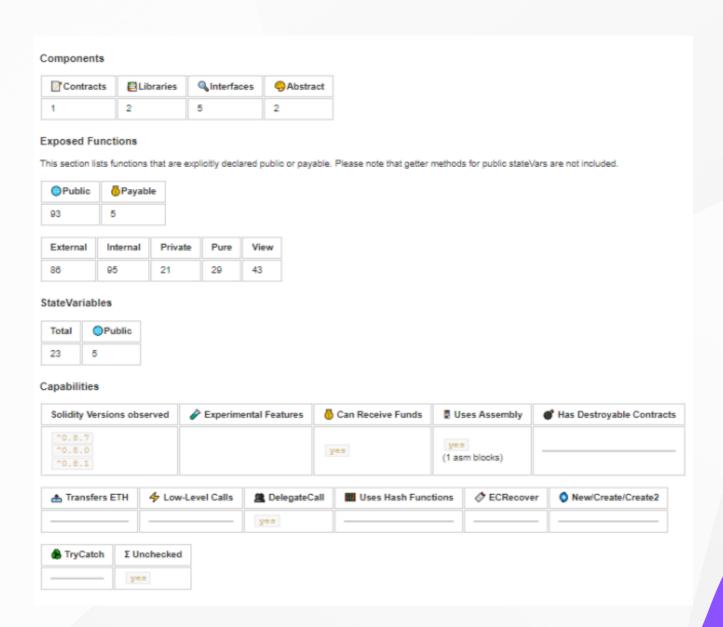






Contract Summary

Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
5	5	1697	1074	643	405	500	
5	5	1697	1074	643	405	500	



Manual Review

Auto liquidity is going to an externally owned account

```
function addLiquidity(uint256 tokenAmount, uint256 bnbAmount) private {
1482
1483
               _approve(address(this), address(pancakeRouter), tokenAmount);
1484
1485
1486
               pancakeRouter.addLiquidityETH{value: bnbAmount}(
1487
                   address(this),
1488
                   tokenAmount,
1489
                   0, // slippage is unavoidable
1490
                   0, // slippage is unavoidable
1491
                   owner(),
1492
                   block.timestamp
1493
```

Recommendation

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Send LP tokens to dead address or unreachable address.

The owner can exclude accounts from rewards

Recommendation

Authorizing privileged roles to exclude accounts from rewards. These cause affect decentralization

Manual Review

The owner can exclude accounts from fees

```
function excludeFromFee(address account) external onlyOwner {
    _isExcludedFromFee[account] = true;
    }

1240
    function includeInFee(address account) external onlyOwner {
        isExcludedFromFee[account] = false;
    }

1243    }
```

Recommendation

Authorizing privileged roles to exclude accounts from fees. These cause affect decentralization

The owner can change swap settings

```
function setSwapAndLiquifyEnabled(bool _enabled) external onlyOwner {
swapAndLiquifyEnabled = _enabled;
emit SwapAndLiquifyEnabledUpdated(_enabled);
}
```

Recommendation

Authorizing privileged roles to enable or disable the swap. These cause affect decentralization

AUDIT REPORT SecureWise **SMART CONTRACT AUDIT**

- https://github.com/securewise
- https://t.me/securewise.info/

