



Cyberscope

Audit Report

MetaCubez

August 2022

Network BSC

Address 0x4352e3cbba64ba07401b8928885528deae66c2c3

Audited by © cyberscope

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Contract Review

| | |
|-------------------------|---|
| Contract Name | MetaCubez |
| Compiler Version | v0.8.7+commit.e28d00a7 |
| Optimization | 200 runs |
| Licence | MIT |
| Explorer | https://bscscan.com/token/0x4352e3cbba64ba07401b8928885528deae66c2c3 |
| Symbol | MCubez |
| Decimals | 4 |
| Total Supply | 200,000,000 |
| Domain | https://metacubez.io |

Source Files

| Filename | SHA256 |
|---------------------|--|
| contract.sol | 0a22c0063860f134f0e5bb00c489b599d97e722cab24715bae1c7548c533fa58 |

Audit Updates

| | |
|--------------------------|---|
| Initial Audit | 16th August 2022 https://github.com/cyberscope-io/audits/blob/main/mcubez/v1/audit.pdf |
| Corrected Phase 1 | 19th August 2022 https://github.com/cyberscope-io/audits/blob/main/mcubez/v2/audit.pdf |
| Corrected Phase 2 | 26th August 2022 https://github.com/cyberscope-io/audits/blob/main/mcubez/v3/audit.pdf |
| Corrected Phase 3 | 28th August 2022 |

Contract Analysis

● Critical ● Medium ● Minor ● Pass

| Severity | Code | Description | Status |
|----------|------|------------------------------------|--------|
| ● | ST | Stops Transactions | Passed |
| ● | OCTD | Transfers Contract's Tokens | Passed |
| ● | OTUT | Transfers User's Tokens | Passed |
| ● | ELFM | Exceeds Fees Limit | Passed |
| ● | ULTW | Transfers Liquidity to Team Wallet | Passed |
| ● | MT | Mints Tokens | Passed |
| ● | BT | Burns Tokens | Passed |
| ● | BC | Blacklists Addresses | Passed |

Contract Diagnostics

● Critical ● Medium ● Minor

| Severity | Code | Description | Status |
|----------|------|--|------------|
| ● | L01 | Public Function could be Declared External | Unresolved |
| ● | L04 | Conformance to Solidity Naming Conventions | Unresolved |
| ● | L09 | Dead Code Elimination | Unresolved |

L01 - Public Function could be Declared External

| | |
|--------------------|---------------------------------|
| Criticality | minor |
| Location | contract.sol#L301,309,1054,1384 |
| Status | Unresolved |

Description

Public functions that are never called by the contract should be declared external to save gas.

```
renounceOwnership  
transferOwnership  
decimals  
isExcludedFromFee
```

Recommendation

Use the external attribute for functions never called from the contract.

L04 - Conformance to Solidity Naming Conventions

| | |
|--------------------|---|
| Criticality | minor |
| Location | contract.sol#L8,966,1245,1357,1361,1580,985,989,990,991,993,996,1005,1623,1625,1656 |
| Status | Unresolved |

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.

```
WETH
INIT_CODE_PAIR_HASH
_enabled
_amount
_pancakeRouter
_tTotal
_name
_symbol
_decimals
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>.

L09 - Dead Code Elimination

| | |
|--------------------|---|
| Criticality | minor |
| Location | contract.sol#L765,778,797,817,877,895,841,860,710,734,912 |
| Status | Unresolved |

Description

Functions that are not used in the contract, and make the code's size bigger.

```
functionCall  
functionCallWithValue  
functionDelegateCall  
functionStaticCall  
isContract  
sendValue  
verifyCallResult  
...
```

Recommendation

Remove unused functions.

Contract Functions

| Contract | Type | Bases | | |
|-------------------------|---|------------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| IPancakeRouter01 | Interface | | | |
| | factory | External | | - |
| | WETH | External | | - |
| | addLiquidity | External | ✓ | - |
| | addLiquidityETH | External | Payable | - |
| | removeLiquidity | External | ✓ | - |
| | removeLiquidityETH | External | ✓ | - |
| | removeLiquidityWithPermit | External | ✓ | - |
| | removeLiquidityETHWithPermit | External | ✓ | - |
| | swapExactTokensForTokens | External | ✓ | - |
| | swapTokensForExactTokens | External | ✓ | - |
| | swapExactETHForTokens | External | Payable | - |
| | swapTokensForExactETH | External | ✓ | - |
| | swapExactTokensForETH | External | ✓ | - |
| | swapETHForExactTokens | External | Payable | - |
| | quote | External | | - |
| | getAmountOut | External | | - |
| | getAmountIn | External | | - |
| | getAmountsOut | External | | - |
| | getAmountsIn | External | | - |
| | | | | |
| IPancakeRouter02 | Interface | IPancakeRouter01 | | |
| | removeLiquidityETHSupportingFeeOnTransferTokens | External | ✓ | - |
| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | ✓ | - |
| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | ✓ | - |

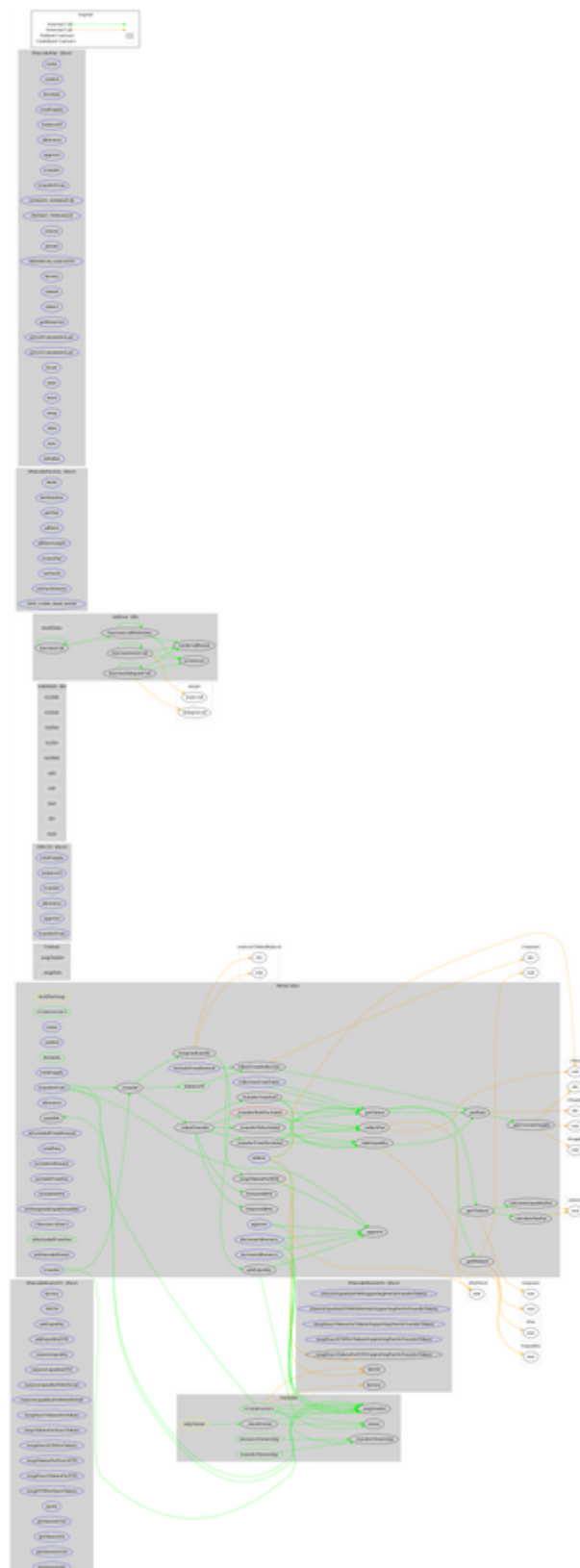
| | | | | |
|-----------------|--|----------|---------|-----------|
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External | Payable | - |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | ✓ | - |
| | | | | |
| Context | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| Ownable | Implementation | Context | | |
| | <Constructor> | Public | ✓ | - |
| | owner | Public | | - |
| | _checkOwner | Internal | | |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | _transferOwnership | Internal | ✓ | |
| | | | | |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| SafeMath | Library | | | |
| | tryAdd | Internal | | |
| | trySub | Internal | | |
| | tryMul | Internal | | |
| | tryDiv | Internal | | |
| | tryMod | Internal | | |
| | add | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |

| | | | | |
|------------------------|-----------------------|-----------------|---|---|
| | sub | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | | | | |
| Address | Library | | | |
| | isContract | Internal | | |
| | sendValue | Internal | ✓ | |
| | functionCall | Internal | ✓ | |
| | functionCall | Internal | ✓ | |
| | functionCallWithValue | Internal | ✓ | |
| | functionCallWithValue | Internal | ✓ | |
| | functionStaticCall | Internal | | |
| | functionStaticCall | Internal | | |
| | functionDelegateCall | Internal | ✓ | |
| | functionDelegateCall | Internal | ✓ | |
| | verifyCallResult | Internal | | |
| | | | | |
| IPancakeFactory | Interface | | | |
| | feeTo | External | | - |
| | feeToSetter | External | | - |
| | getPair | External | | - |
| | allPairs | External | | - |
| | allPairsLength | External | | - |
| | createPair | External | ✓ | - |
| | setFeeTo | External | ✓ | - |
| | setFeeToSetter | External | ✓ | - |
| | INIT_CODE_PAIR_HASH | External | | - |
| | | | | |
| MetaCubeZ | Implementation | IERC20, Ownable | | |
| | <Constructor> | Public | ✓ | - |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | Public | | - |
| | totalSupply | External | | - |

| | | | | |
|--|--------------------------|----------|---------|-------------|
| | balanceOf | Public | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | increaseAllowance | External | ✓ | - |
| | decreaseAllowance | External | ✓ | - |
| | isExcludedFromReward | External | | - |
| | totalFees | External | | - |
| | deliver | External | ✓ | - |
| | reflectionFromToken | External | | - |
| | tokenFromReflection | Public | | - |
| | excludeFromReward | External | ✓ | onlyOwner |
| | includeInReward | External | ✓ | onlyOwner |
| | _transferBothExcluded | Private | ✓ | |
| | excludeFromFee | External | ✓ | onlyOwner |
| | includeInFee | External | ✓ | onlyOwner |
| | setSwapAndLiquifyEnabled | External | ✓ | onlyOwner |
| | <Receive Ether> | External | Payable | - |
| | _reflectFee | Private | ✓ | |
| | _getValues | Private | | |
| | _getTValues | Private | | |
| | _getRValues | Private | | |
| | _getRate | Private | | |
| | _getCurrentSupply | Private | | |
| | _takeLiquidity | Private | ✓ | |
| | calculateTaxFee | Private | | |
| | calculateLiquidityFee | Private | | |
| | removeAllFee | Private | ✓ | |
| | restoreAllFee | Private | ✓ | |
| | isExcludedFromFee | Public | | - |
| | _approve | Private | ✓ | |
| | _transfer | Private | ✓ | |
| | swapAndLiquify | Private | ✓ | lockTheSwap |
| | swapTokensForBNB | Private | ✓ | |

| | | | | |
|---------------------|-----------------------|----------|---|-----------|
| | addLiquidity | Private | ✓ | |
| | _tokenTransfer | Private | ✓ | |
| | _transferStandard | Private | ✓ | |
| | _transferToExcluded | Private | ✓ | |
| | _transferFromExcluded | Private | ✓ | |
| | setPancakeRouter | External | ✓ | onlyOwner |
| | | | | |
| IPancakePair | Interface | | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transfer | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | DOMAIN_SEPARATOR | External | | - |
| | PERMIT_TYPEHASH | External | | - |
| | nonces | External | | - |
| | permit | External | ✓ | - |
| | MINIMUM_LIQUIDITY | External | | - |
| | factory | External | | - |
| | token0 | External | | - |
| | token1 | External | | - |
| | getReserves | External | | - |
| | price0CumulativeLast | External | | - |
| | price1CumulativeLast | External | | - |
| | kLast | External | | - |
| | mint | External | ✓ | - |
| | burn | External | ✓ | - |
| | swap | External | ✓ | - |
| | skim | External | ✓ | - |
| | sync | External | ✓ | - |
| | initialize | External | ✓ | - |

Contract Flow



Domain Info

| | |
|-------------------------------|---|
| Domain Name | metacubez.io |
| Registry Domain ID | 2cc0117a5fa0419fa6d4ad26d8082ef1-DONUTS |
| Creation Date | 2022-04-12T21:12:51Z |
| Updated Date | 2022-05-20T12:35:30Z |
| Registry Expiry Date | 2024-04-12T21:12:51Z |
| Registrar WHOIS Server | http://www.hostinger.com |
| Registrar URL | http://www.hostinger.com |
| Registrar | Hostinger, UAB |
| Registrar IANA ID | 1636 |

The domain was created 4 months before the creation of the audit.

There is no public billing information, the creator is protected by the privacy settings.

Summary

MetaCubeZ is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a fixed fee of 7%.

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About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>