



Smart Contract Security Audit

<u>TechRate</u> December, 2021

Audit Details



Audited project

CatMoonCoin.com



Deployer address

0xddf95c5a2d8e9cefd8fc6dddcdd2c4a3fcd25afd



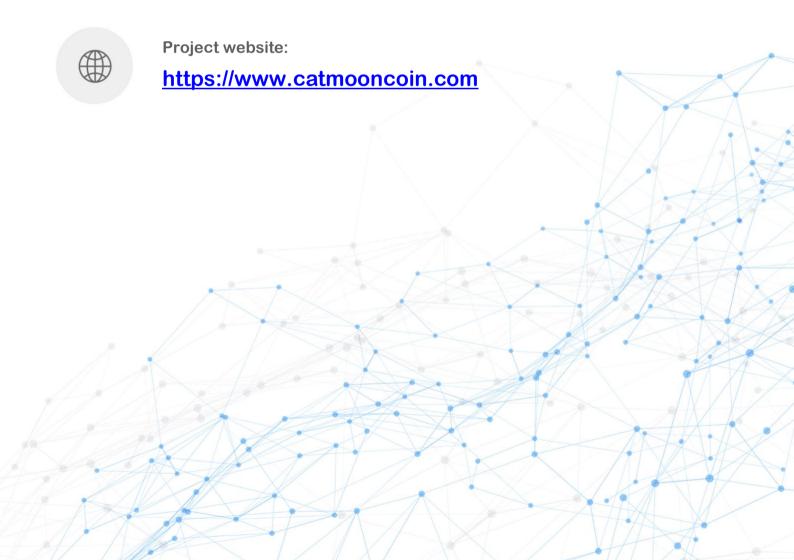
Client contacts:

CatMoonCoin.com team



Blockchain

Binance Smart Chain



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 CatMoonCoin.com to perform an audit of smart contracts:

https://bscscan.com/address/0xb9a32d637c197bcd29b4d524b942657182dbe1bb#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.

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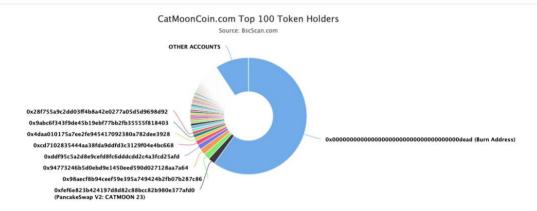
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Contracts Details

Token contract details for 05.12.2021

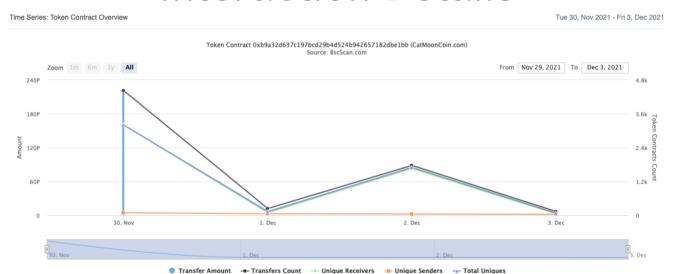
Contract name	CatMoonCoin.com
Contract address	0xB9A32D637C197bcd29B4D524B942657182DBe1BB
Total supply	100,000,000,000,000
Token ticker	CATMOON
Decimals	9
Token holders	3,227
Transactions count	6,704
Top 100 holders dominance	90.72%
Uniswap V2 pair	0xfef6e823b424197d8d82c88bcc82b980e377afd0
Contract deployer address	0xddf95c5a2d8e9cefd8fc6dddcdd2c4a3fcd25afd
Contract's current owner address	0x000000000000000000000000000000000000

CatMoonCoin.com Token Distribution



(A total of 90,719,718,262,056,300.00 tokens held by the top 100 accounts from the total supply of 100,000,000,000,000,000,000.00 token)

CatMoonCoin.com Contract Interaction Details



CatMoonCoin.com Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	60,000,000,000,000,000	60.0000%
2	PancakeSwap V2: CATMOON 23	1,933,662,574,346,730.923950204	1.9337%
3	0x98aecf8b94ceef59e395a749424b2fb07b287c86	1,751,788,193,529,710.473769893	1.7518%
4	0x94773246b5d0ebd9e1450eed590d027128aa7a64	1,700,001,706,391,300.971975576	1.7000%
5	0xddf95c5a2d8e9cefd8fc6dddcdd2c4a3fcd25afd	1,400,000,000,000,000	1.4000%
6	0xcd7102835444aa38fda9ddfd3c3129f04e4bc668	1,200,000,000,000,000	1.2000%
7	0x4daa010175a7ee2fe945417092380a782dee3928	959,192,710,173,823.532707101	0.9592%
8	0x9abc6f343f9de45b19ebf77bb2fb35555f818403	956,219,296,004,027.832650922	0.9562%
9	0x28f755a9c2dd03ff4b8a42e0277a05d5d9698d92	813,848,481,673,399.071806157	0.8138%
10	0xca8f7143300296c7dbe20175b7e27a4cf033a74c	786,089,543,600,219.481732038	0.7861%

Contract functions details

+ Context - [Int] msgSender + [Int] IERC20 - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + [Int] Token - [Ext] transferFrom # - [Ext] transfer # + [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div + Ownable (Context) - [Pub] <Constructor># - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner + [Int] IUniswapV2Factory - [Ext] createPair# + [Int] IUniswapV2Router02 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens # - [Ext] factory - [Ext] WETH - [Ext] addLiquidityETH (\$) + CatMoon (Context, IERC20, Ownable) - [Pub] <Constructor># - [Pub] name - [Pub] symbol - [Pub] decimals - [Pub] totalSupply - [Pub] balanceOf - [Pub] transfer # - [Pub] allowance - [Pub] approve #

- [Pub] transferFrom #

- [Prv] tokenFromReflection
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapTokensForEth #
 - modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Prv] _tokenTransfer #
- [Pub] rescueForeignTokens #
 - modifiers: onlyDev
- [Pub] setNewDevAddress #
 - modifiers: onlyDev
- [Pub] setNewMarketingAddress #
 - modifiers: onlyDev
- [Prv] _transferStandard #
- [Prv] _takeTeam #
- [Prv] _reflectFee #
- [Ext] <Fallback> (\$)
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Ext] manualswap #
- [Ext] manualsend #
- [Pub] setFee #
 - modifiers: onlyDev
- [Pub] toggleSwap #
 - modifiers: onlyDev
- [Pub] excludeMultipleAccountsFromFees #
 - modifiers: onlyOwner
- (\$) = payable function
- # = non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-fu conditions.	unction race 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 log	gic. 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 usage.	ation and 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. Out of gas

Issue:

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

Recommendation:

Check that the excluded array length is not too big.

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

- Owner can withdraw contract tokens.
- Owner can change development address.
- Owner can change marketing address.
- Owner can change fees.
- Owner can enable/disable swap.
- Owner can manually swap and send tokens.

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Ownership renounce details are provided by the team: https://bscscan.com/tx/0xb8e82d39e263daa88449a65cd087601591 85a10876794bec94186eca6a32e1ef

Liquidity locking details are provided by the team: https://bscscan.com/tx/0x4f97878f9146627166e5c2ee4d66bbee31c da158068a0361834871910a435cea (Burn)

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.

