

# Smart Contract Security Audit Report

### Transhuman Coin

January 2023

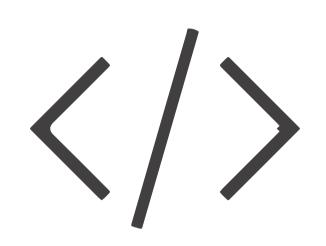


### Audit Details



### Audited project

Transhuman Coin

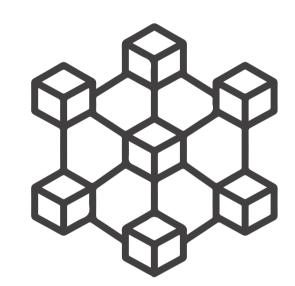


Deployer address
0x018fbdf1d7085781d321e8fbb25004c3dbfa1f9a



### Client contacts

Transhuman Coin



Binance smart chain



### Website

Https://Www.Transhumancoin.Finance/

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### 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.

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### Procedure

#### Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

#### Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

#### Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

#### Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

#### Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

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## Background

#### HackSafe was commissioned by Transhuman Coin to perform an audit of smart contracts:

• https://bscscan.com/token/0x56083560594E314b5cDd1680eC6a493bb851BBd8#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 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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### Contract Details

### Token contract details for 09.01.2023

Token Type	: DEFI
Contract name	: TranshumanCoin
Contract address	: 0x56083560594E314b5cDd1680eC6a493bb851BBd8
Total supply	: 7,000,000
Token ticker	: THC
Decimals	: 9
Token Holders	: 15,013
Transactions count	: 107,301
Compiler version	: v0.8.4+commit.c7e474f2
Contract deployer address	: 0x018fbdf1d7085781d321e8fbb25004c3dbfa1f9a
Owner address	: 0x018fbdf1d7085781d321e8fbb25004c3dbfa1f9a

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### Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Secure". This token contract does contain owner control, which do not make it fully decentralized.

Insecure Poor secured Secure Well-secured

You are here

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 1 medium and 0 low.

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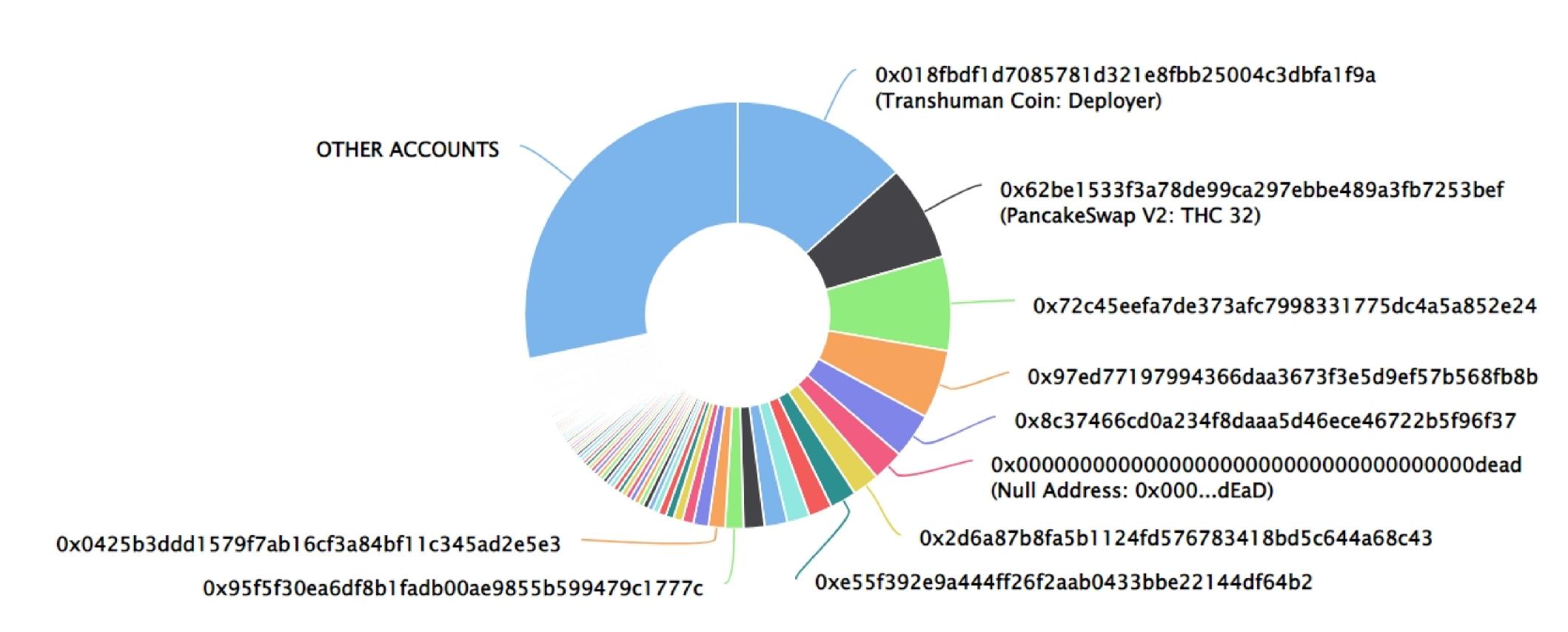
### TranshumanCoin Token Distribution

The top 100 holders collectively own 71.69% (5,018,180,347.16 Tokens) of Transhuman Coin

▼ Token Total Supply: 7,000,000,000.00 Token | Total Token Holders: 15,014

#### Transhuman Coin Top 100 Token Holders

Source: BscScan.com



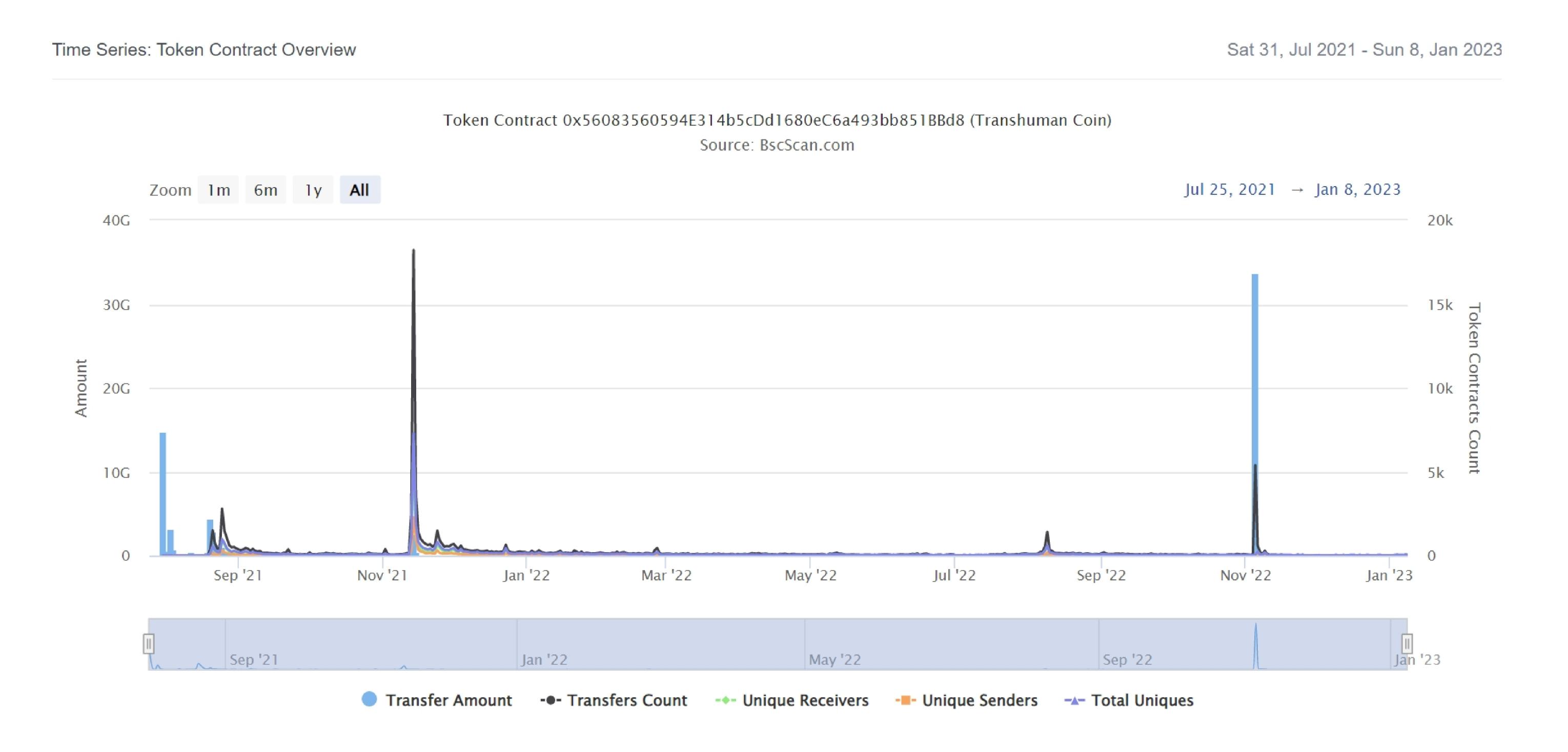
### TranshumanCoin Top 20 Token Holders

(A total of 5,018,180,347.16 tokens held by the top 100 accounts from the total supply of 7,000,000,000.00 token)

1       Transhuman Coin: Deployer       933,460,415,878670866       13,3361%         2       ■ PancakeSwap V2: THC 32       507,036,781,910773779       7,2434%         3       0x72c45sefa7de373afc7998331775dc4s5a852e24       498,392,603,010251919       7,1198%         4       0x97cd77197994366daa3673f3e5d9ef57b568fbbb       364,728,737,797357838       5,2104%         5       0x8c37466cd0aa3478daaa5d46ece46722b5f0ef37       239,883,280,501872002       3,4269%         6       Null Address: 0x000dEaD       166,069,427,728367549       2,3724%         7       0x2d6a87b8fab1124ld576783418bd5c844a68e13       143,440,418,089840285       2,0491%         8       0xe55f302e9e444ff2672aab0433bba22144df64b2       140,238,540,13352567       2,0034%         9       0x02ea59336e8e2302d520066bbe2ac6026cf39b4b       124,815,818,878661603       1,7831%         10       0x17d7251a8e8d60ab74d7d2b2d20d2e038e871729       120,593,868,232933695       1,7228%         11       0x893852lfa5db1860alfdb5412ad1c0a4da32157       119,602,582,009997888       1,7086%         12       0x37742ccc4741da646897b1ef12dac86c861H1724       111,495,278,778279125       1,5928%         13       0x93f5f30ee6dfb1feab00ee855b599479c1777c       97,516,084,40224692       1,3831%         14       0x0425b3ddc15797ab16c1aa84bf11c345ad2a6a3	Rank	Address	Quantity (Token)	Percentage
3	1	Transhuman Coin: Deployer	933,460,415.878670866	13.3351%
4       0x97ed77197994366daa3673f3e6d9ef67b5668fb8b       364,728,737,797357838       5,2104%         5       0x8c37466cd0a234f8daaa5d46ece46722b5f96f37       239,883,280,501872002       3,4269%         6       Null Address: 0x000dEaD       166,069,427,728387549       2,3724%         7       0x2d6a87b8fa5b1124fd576783418bd5c644a68c43       143,440,418,089840285       2,0491%         8       0x65f392e6a444ff26f2aab0433bbe22144df64b2       140,238,540,19352567       2,0034%         9       0x02ea59339e8e2302d520066bbe2ac6026cd39bdb       124,815,918,876691603       1,7831%         10       0x17d7251a8a8d66ab74d7d2b2d20d2a0389871729       120,593,868,232933695       1,7228%         11       0xd93652fa5db1860a1fdb5412a0fc0a4da321f57       119,602,582,009997888       1,7086%         12       0x37742ccc4741de546897b1ef12dac8d8501f1724       111,495,278,778279125       1,5928%         13       0x95f5730ea6df8b1fadb00ae9855b599479c1777c       97,516,084,40224692       1,3931%         14       0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3       87,929,349,971559444       1,2561%         15       0x447dda078bf946515830c5321d11536de91a0d4       79,909,282,974017322       1,1416%         16       0x75087b9edb5463ce1a3ae57e11671424600927a4       59,391,588,10992008       0,8455%         17       0xa92bee564a7	2	PancakeSwap V2: THC 32	507,036,761.910773779	7.2434%
5         0x8c37466cd0a234f8daaa5d46ece46722b5f96f37         239,883,280,501872002         3,4269%           6         Null Address: 0x000dEaD         166,069,427,728387549         2,3724%           7         0x2d6a87b8fa6b1124fd576783418bd5c644a68c43         143,440,418,069840285         2,0491%           8         0xe55f392e9a444ff26f2aab0433bbc22144df64b2         140,238,540,19352567         2,0034%           9         0x02ea59339e8e2302d520066bbc2ac6026cf39b4b         124,815,818,878691603         1,7831%           10         0x17d7251a8a8d60ab74d7d2b2d20d2a0389871728         120,593,968,232933695         1,7228%           11         0xd93652ffa5db1860a1fdb5412a0fc0a4da321f57         119,602,582,009997888         1,7086%           12         0x37742ccc4741de546897b1ef12dac8d8501f1724         111,495,278,778279125         1,5928%           13         0x95f530ea6df8b1fadb00ae9855b599479c1777c         97,516,084,40224892         1,3931%           14         0x0425b3ddd1579f7ab16cf3a84bf1tc345ad2e5e3         87,929,349,971559444         1,2561%           15         0x447dda078bff946515830c5321d11536de91a0d4         79,909,282,974017322         1,1416%           16         0x75987b9edb5463ce1a3a857e11671424600927a4         59,391,568,10932008         0,8455%           17         0xa92bee564a7015eb14826572c349c30c5a28b3ea         47,318,895,87929	3	0x72c45eefa7de373afc7998331775dc4a5a852e24	498,382,603.010251919	7.1198%
6 Null Address: 0x000dEaD 166,069,427,728387549 2.3724% 7 0x2d6a87b8fa5b1124fd576783418bd5c644a68c43 143,440,418.089840285 2.0491% 8 0xe557392e9a444ff26f2aab0433bbe22144df64b2 140,238,540,19352567 2.0034% 9 0x02ea59339a8e2302d520066bbe2ac6026cf39b4b 124,815,818,878691603 1.7831% 10 0x17d7251a8a8d80ab74d7d2b2d20d2a0389871729 120,593,968,232933695 1.7228% 11 0xd93652ffa5db1860a1fdb5412a0fc0a4da321f57 119,802,582,009997888 1.7086% 12 0x37742ccc4741de546897b1ef12dac8d8501f1724 111,495,278,778279125 1.5928% 13 0x95f590ea6df8b1fadb0oae9855b599479c1777c 97,516,084,40224892 1.3931% 14 0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3 87,929,349,971559444 1.2561% 15 0x447dda078bff946515830c5321d11536de91a0d4 79,909,282,974017322 1.1416% 16 0x75987b9edb5463ce1a3a857e11671424600927e4 59,391,568,10932008 0.8485% 17 0xa92bee584a70f5eb44882572c349c30c5a28b3ea 47,318,895,879292413 0.6760%	4	0x97ed77197994366daa3673f3e5d9ef57b568fb8b	364,728,737.797357838	5.2104%
7       0x2d6a87b8fa5b1124fd576783418bd5c644a68c43       143,440,418,069840285       2,0491%         8       0xe55i392e9a444ff26f2aab0433bbe22144df64b2       140,238,540,19352567       2,0034%         9       0x02ea59339a8e2302d520066bbe2ac6028cf39b4b       124,815,818,878691603       1,7831%         10       0x17d7251a8a8d60ab74d7d2b2d20d2a0389871729       120,593,968,232933695       1,7228%         11       0xd93652ffa5db1860a1fdb5412a0fc0a4da321f57       119,602,582,009997888       1,7086%         12       0x37742ccc4741de546897b1ef12dac8d8501f1724       111,495,278,778279125       1,5928%         13       0x95f5/30ea6df8b1fadb00ae9855b599479c1777c       97,516,084,40224892       1,3931%         14       0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3       87,929,348,971559444       1,2561%         15       0x447dda078bff946515830c5321d11538de91a0d4       79,909,282,974017322       1,1416%         16       0x75987b9edb5463ce1a3a857e11871424600927a4       59,391,568,10932008       0,8485%         17       0xa92bee564a70f5ebt4882572c349c30c5a28b3ea       47,318,895,879292413       0,6760%         18       0xe831928b6cf872773fc62ced134eb99725ed6ac5       43,088,764,576024895       0,6156%	5	0x8c37466cd0a234f8daaa5d46ece46722b5f96f37	239,883,280.501872002	3.4269%
8	6	Null Address: 0x000dEaD	166,069,427.728387549	2.3724%
9 0x02ea59339a8e2302d520066bbe2ac6026cf39b4b 124,815,818.878691603 1.7831%  10 0x17d7251a8a8d60ab74d7d2b2d20d2a0389871729 120,593,968.232933695 1.7228%  11 0xd93652ffa5db1860a1fdb5412a0fc0a4da321f57 119,602,582.009997888 1.7086%  12 0x37742ccc4741de546897b1ef12dac8d8501f1724 111,495,278.778279125 1.5928%  13 0x95f530ea6df8b1fadb00ae9855b599479c1777c 97,516,084.40224892 1.3931%  14 0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3 87,929,349.971559444 1.2561%  15 0x447dda078bff948515830c5321d11536de91a0d4 79,909,282.974017322 1.1416%  16 0x75987b9edb5463ce1a3a857e11671424800927a4 59,391,568.10932008 0.8485%  17 0xa82bee564a70f5ebf4882572c349c30c5a28b3ea 47,318.895.879282413 0.6760%  18 0xe831926b6cf672773fc82ced134eb99725ed8ac5 43,088,764.578024895 0.6156%	7	0x2d6a87b8fa5b1124fd576783418bd5c644a68c43	143,440,418.069840285	2.0491%
10       0x17d7251a8a8d60ab74d7d2b2d20d2a0389871729       120,593,968,232933695       1.7228%         11       0xd93652ffa5db1860a1fdb5412a0fc0a4da321f57       119,602,582,009997888       1.7086%         12       0x37742ccc4741de546897b1ef12dac8d8501f1724       111,495,278,778279125       1.5928%         13       0x95f5f30ea6df8b1fadb00ae9855b599479c1777c       97,516,084,40224892       1.3931%         14       0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3       87,929,349,971559444       1.2561%         15       0x447dda078bff946515830c5321d11536de91a0d4       79,909,282,974017322       1.1416%         16       0x75987b2edb5463ce1a3a857e11671424600927a4       59,391,568,10932008       0.8485%         17       0xa92bee564a70f5ebf4882572c349c30c5a28b3ea       47,318,595,879292413       0.6760%         18       0xe831926b6cf672773fc62ced134eb99725ed6ac5       43,088,764,576024895       0.8156%	8	0xe55f392e9a444ff26f2aab0433bbe22144df64b2	140,238,540.19352567	2.0034%
11       0xd93652ffa5db1860a1fdb5412a0fc0a4da321f57       119,602,582.009997888       1.7086%         12       0x37742ccc4741de546897b1ef12dac8d8501f1724       111,495,278,778279125       1.5928%         13       0x95f5f30ea6df8b1fadb00ae9855b599479c1777c       97,516,084,40224892       1.3931%         14       0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3       87,929,349,971559444       1.2561%         15       0x447dda078bff946515830c5321d11536de91a0d4       79,909,282,974017322       1.1416%         16       0x75987b9edb5463ce1a3a857e11671424600927a4       59,391,568,10932008       0.8485%         17       0xa92bee564a70f5ebf4882572c349c30c5a28b3ea       47,318,895,879292413       0.6760%         18       0xe831926b6cf672773fc62ced134eb99725ed6ac5       43,088,764,576024895       0.6156%	9	0x02ea59339a8e2302d520066bbe2ac6026cf39b4b	124,815,818.878691603	1.7831%
12       0x37742ccc4741de546897b1ef12dac8d8501f1724       111,495,278.778279125       1.5928%         13       0x95f5f30ea6df6b1fadb00ae9855b599479c1777c       97,516,084.40224892       1.3931%         14       0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3       87,929,349.971559444       1.2561%         15       0x447dda078bff946515830c5321d11536de91a0d4       79,909,282.974017322       1.1416%         16       0x75987b9edb5463ce1a3a857e11671424600927a4       59,391,568.10932008       0.8485%         17       0xa92bee564a70f5ebf4882572c349c30c5a28b3ea       47,318,895.879292413       0.6760%         18       0xe831926b6cf672773fc62ced134eb99725ed6ac5       43,088,764.576024895       0.6156%	10	0x17d7251a8a8d60ab74d7d2b2d20d2a0389871729	120,593,968.232933695	1.7228%
13 0x95f5f30ea6df8b1fadb00ae9855b599479c1777c 97,516,084.40224892 1.3931%  14 0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3 87,929,349.971559444 1.2561%  15 0x447dda078bff946515830c5321d11536de91a0d4 79,909,282.974017322 1.1416%  16 0x75987b9edb5463ce1a3a857e11671424600927a4 59,391,568.10932008 0.8485%  17 0xa92bee564a70f5ebf4882572c349c30c5a28b3ea 47,318,895.879292413 0.6760%  18 0xe831926b6cf672773fc62ced134eb99725ed6ac5 43,088,764.576024895 0.6156%	11	0xd93652ffa5db1860a1fdb5412a0fc0a4da321f57	119,602,582.009997888	1.7086%
14       0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3       87,929,349.971559444       1.2561%         15       0x447dda078bff946515830c5321d11536de91a0d4       79,909,282.974017322       1.1416%         16       0x75987b9edb5463ce1a3a857e11671424600927a4       59,391,568.10932008       0.8485%         17       0xa92bee564a70f5ebf4882572c349c30c5a28b3ea       47,318,895.879292413       0.6760%         18       0xe831926b6cf672773fc62ced134eb99725ed6ac5       43,088,764.576024895       0.6156%	12	0x37742ccc4741de546897b1ef12dac8d8501f1724	111,495,278.778279125	1.5928%
15       0x447dda078bff946515830c5321d11536de91a0d4       79,909,282.974017322       1.1416%         16       0x75987b9edb5463ce1a3a857e11671424600927a4       59,391,568.10932008       0.8485%         17       0xa92bee564a70f5ebf4882572c349c30c5a28b3ea       47,318,895.879292413       0.6760%         18       0xe831926b6cf672773fc62ced134eb99725ed6ac5       43,088,764.576024895       0.6156%	13	0x95f5f30ea6df8b1fadb00ae9855b599479c1777c	97,516,084.40224892	1.3931%
16       0x75987b9edb5463ce1a3a857e11671424600927a4       59,391,568.10932008       0.8485%         17       0xa92bee564a70f5ebf4882572c349c30c5a28b3ea       47,318,895.879292413       0.6760%         18       0xe831926b6cf672773fc62ced134eb99725ed6ac5       43,088,764.576024895       0.6156%	14	0x0425b3ddd1579f7ab16cf3a84bf11c345ad2e5e3	87,929,349.971559444	1.2561%
17	15	0x447dda078bff946515830c5321d11536de91a0d4	79,909,282.974017322	1.1416%
18 0xe831926b6cf672773fc62ced134eb99725ed6ac5 43,088,764.576024895 0.6156%	16	0x75987b9edb5463ce1a3a857e11671424600927a4	59,391,568.10932008	0.8485%
	17	0xa92bee564a70f5ebf4882572c349c30c5a28b3ea	47,318,895.879292413	0.6760%
19 PancakeSwap V2: THC-BUSD 3 40,917,464.331074977 0.5845%	18	0xe831926b6cf672773fc62ced134eb99725ed6ac5	43,088,764.576024895	0.6156%
	19	PancakeSwap V2: THC-BUSD 3	40,917,464.331074977	0.5845%
20 0x3e0c7d17c645214e1d056ac7a2fc7c2a2f34c4a4 31,916,191.53897974 0.4559%	20	0x3e0c7d17c645214e1d056ac7a2fc7c2a2f34c4a4	31,916,191.53897974	0.4559%

### TranshumanCoin Token Distribution

#### TranshumanCoin Contract overview



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```
+Context
    -[Int] _msgSender
    -[Int] _msgData
+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #
+[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
    - [Pub] getUnlockTime
    - [Pub] lock #
     - modifiers: onlyOwner
    - [Pub] unlock #
+ [Int] IUniswapV2Factory
    - [Ext] feeTo
    - [Ext] feeToSetter
    [Ext] getPair
    [Ext] allPairs
    - [Ext] allPairsLength
```

```
- [Ext] createPair #
     - [Ext] setFeeTo #
     - [Ext] setFeeToSetter #
+ [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] 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 #
+TranshumanCoin (Context, IBEP20, Ownable)
    - [Pub] <constructor>#
     - modifiers: Ownable
    - [Pub] name
    - [Pub] symbol
    - [Pub] decimals
    - [Pub] totalSupply
    - [Pub] balanceOf
    - [Pub] transfer #
    - [Pub] allowance
    - [Pub] approve #
    - [Pub] transferFrom #
    - [Pub] increaseAllowance #
    - [Pub] decreaseAllowance #
    - [Pub] isExcludedFromReward
    - [Pub] totalFees
```

- [Pub] deliver #

```
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner

    [Ext] setmarketingWallet #

 - modifiers: onlyOwner
[Ext] setExcludedFromFee #
 - modifiers: onlyOwner
- [Ext] setTaxFeePercent #
 - modifiers: onlyOwner
[Ext] setLiquidityFeePercent #
 - modifiers: onlyOwner

    [Ext] setPercentageOfLiquidityFormarketing #

 - modifiers: onlyOwner
[Ext] setMaxTxAmount #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] ($)
[Ext] setUniswapRouter #
 - modifiers: onlyOwner
- [Ext] setUniswapPair #
 - modifiers: onlyOwner

    [Ext] setExcludedFromAutoLiquidity #

 - modifiers: onlyOwner
- [Prv] _reflectFee #
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] takeTransactionFee #
- [Prv] calculateFee
- [Pub] isExcludedFromFee
- [Prv] _approve #
- [Prv] _transfer #
```

```
- [Prv] swapAndLiquify #

- modifiers: lockTheSwap
- [Prv] swapTokensForBnb #
- [Prv] addLiquidity #
- [Prv] _tokenTransfer #
- [Prv] _transferStandard #
- [Prv] _transferBothExcluded #
- [Prv] _transferToExcluded #
- [Prv] _transferFromExcluded #

($) = payable function
# = non-constant function
```

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# Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Medium Issue
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Passed

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# Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

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## Security Issues

#### Critical Severity Issues

No critical severity issue found.

#### High Severity Issues

No high severity issue found.

### Medium Severity Issues

One medium severity issue found.

#### 1. Out of gas

#### Issue:

The function includeInReward() uses the loop to find and remove addresses from the \_excluded list. Function will be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

The function \_getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list

#### Recommendation

Check that the excluded array length is not too big.

#### Low Severity Issues

No low severity issue found.

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### Centralization

#### Owner Privileges

- Transhuman Coin Contract:
  - Owner can change the tax and liquidity fee.
  - Owner can change dev fee.
  - Owner can change the maximum transaction amount.
  - Owner can change dev wallet.
  - Owner can change uniswap router and pair.
  - Owner can exclude from and include to autoliquidity.
  - Owner can exclude from the fee.
  - Owner can disable and enable swap and liquify.
  - Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.

This smart contract has some functions which can be executed by the admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble, as smart contract ownership has not been renounced.

- RenounceOwnership
- TransferOwnership
- Lock
- ExcludeFromreward
- IncludeinReward
- SetmarKetingWallet
- SetExcludedFromFee
- SetTaxFeePercent
- SetLiquidityFeePercent
- SetPercentageOfLiquidityFormarKeting
- SetmaxTxamount
- SetSwapAndLiquifyEnabled
- SetUniswapRouter
- SetUniswapPair
- SetExcludedFromAutoLiquidity

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### Conclusion

Smart contract contains medium severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe 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.

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