



Smart Contract Security Audit Report

CanYaCoin

October 2022

Security Status



www.hacksafe.io



Audit Details



Audited project

CanYaCoin



Deployer address

0xb00E81207bcDA63c9E290E0b748252418818c869



Client contacts

CanYaCoin Team



Blockchain

Binance smart chain



Website

Not provided

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.

DISCLAIMER: By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice. No one shall have any right to rely on the report or its contents, and TechRate and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (HackSafe) owe no duty of care towards you or any other person, nor does HackSafe make any warranty or representation to any person on the accuracy or completeness of the report. The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and HackSafe hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, HackSafe hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against HackSafe, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report.

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.

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.

Background

HackSafe was commissioned by CanYaCoin to perform an audit of smart contracts:

- <https://bscscan.com/address/0x007ea5c0ea75a8df45d288a4debdd5bb633f9e56#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 understood 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.

Contract Details

Token contract details for 21.10.2022

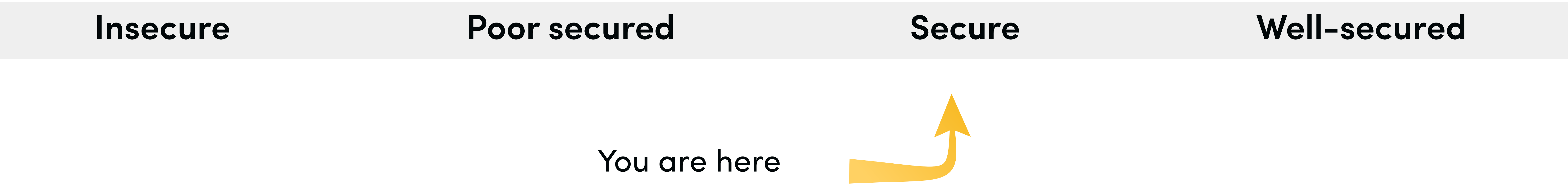
Token Type	: ERC20
Contract name	: CanYaCoin
Contract address	: 0x007EA5C0Ea75a8DF45D288a4debdD5bb633F9e56
Total supply	: 95,827,000
Token ticker	: CAN
Decimals	: 18
Token holders	: 999
Transactions count	: 8,951
Compiler version	: v0.6.8+commit.0bbfe453
Contract deployer address	: 0xb00E81207bcDA63c9E290E0b748252418818c869
Owner address	: 0xb00e81207bcda63c9e290e0b748252418818c869

Social profiles

Twitter profile	: https://twitter.com/canyacoin
Coinmarketcap Profile	: https://coinmarketcap.com/currencies/canyacoin/
Telegram profile	: https://t.me/canyacommunity
Coingecko profile	: https://www.coingecko.com/en/coins/canyacoin/

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 as owner does have control over smart contract.



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,0 medium and 1 low and some very low-level issues.

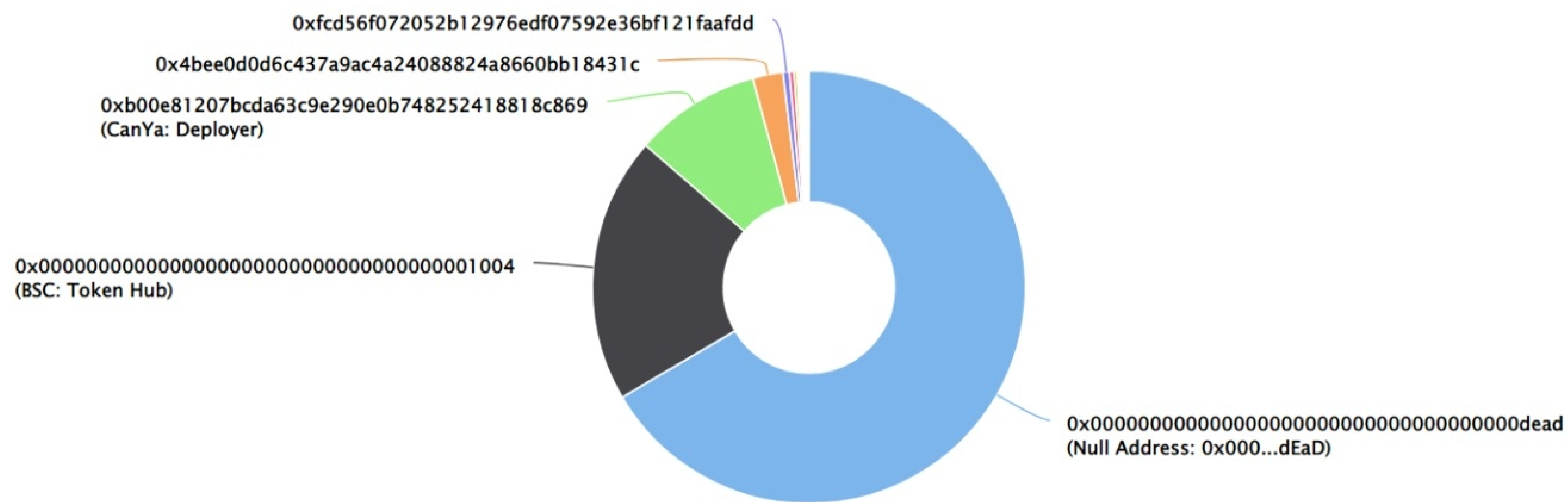
CanYaCoin Token Distribution

💡 The top 100 holders collectively own 99.96% (95,788,351.20 Tokens) of CanYaCoin

💡 Token Total Supply: 95,827,000.00 Token | Total Token Holders: 999



CanYaCoin Top 100 Token Holders

Source: BscScan.com



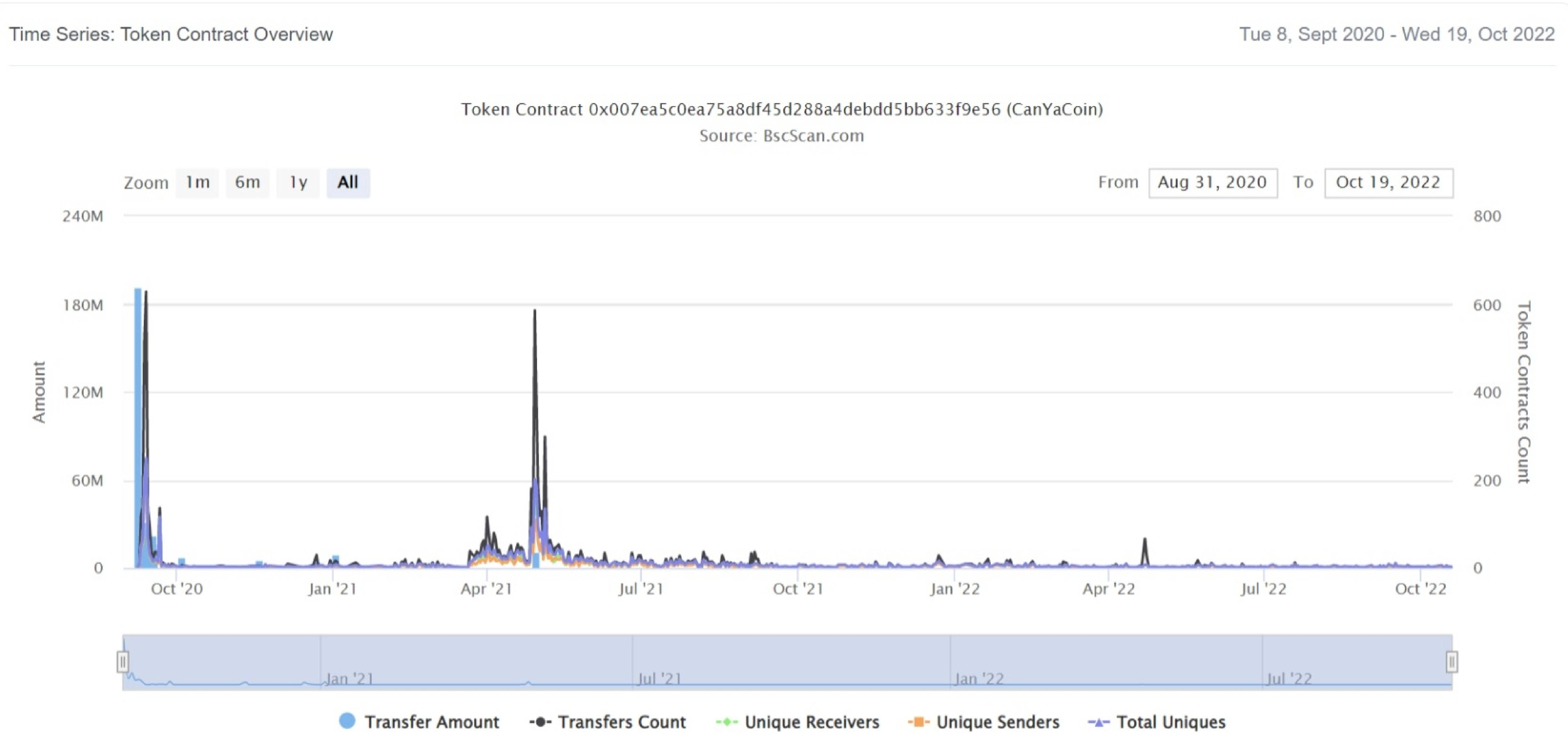
CanYaCoin Token 20 Token Holders

(A total of 95,788,351.20 tokens held by the top 100 accounts from the total supply of 95,827,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000...dEaD	63,760,990.748924445525601475	66.5376%
2	 BSC: Token Hub	19,045,434.41336704	19.8748%
3	CanYa: Deployer	9,035,682.67937651	9.4292%
4	0x4bee0d0d6c437a9ac4a24088824a8660bb18431c	2,170,919.19107201	2.2655%
5	0xfcd56f072052b12976edf07592e36bf121faafdd	450,000	0.4696%
6	 PancakeSwap V2: CAN	327,169.838127145734457826	0.3414%
7	0x90b46274580690efcf6e41bc60a7cd3e069d394b	218,582.681956817266036946	0.2281%
8	0x95cdd45b7658ec98482cc6e6fec5be1c41e0d7a5	132,205.64	0.1380%
9	0x0c660e102da4ff01690cf42079420c08eeb5c977	111,611.362044	0.1165%
10	0x100bd35c50b782aae907e0e2a484fe1598414769	93,111.029795383959054946	0.0972%
11	0x2f0195648d624bb525089ffcabd8e94c5eca08e3	42,040	0.0439%
12	0xe189506b9d7773ddb288b72e51684a0e68767116	21,924.003161	0.0229%
13	0x86d7a88be0941b8038467989510d7a37682b9704	20,406.18874782	0.0213%
14	0x4eb61d6d34a26173be13acf3243c385fb3d56451	17,802.32478	0.0186%
15	0xf769c75718f5f7022f86b0cff0d20077d2e096a9	16,546.223888679245283019	0.0173%
16	0x07f36acefe5d19cbc0fc9cc6dd0813f4d3f31022	15,402.380823	0.0161%
17	0xf31c3f85cc0fc4edca448c7a478019d5341e0620	14,841.492223851360427604	0.0155%
18	0x70f07c783499b169465dae3571a56ac523c5462a	14,600	0.0152%
19	0x13fc23a97878fb0dd9c8bf5e5cbb8259582cdb26	14,549.704105218530665906	0.0152%
20	0xf9ccb36248fce4a90cc098a4b59b96e7fe9eb214	13,999	0.0146%

CanYaCoin Token Distribution

CanYaCoin Contract Overview



Contract functions details

+[Int] iBEP20

- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom

+ Context

- [Int] <constructor>
- [Int] _msgSender
- [Int] _msgData

+[Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

+Ownable (Context)

- [Int] <constructor>
- [Pub] owner
- [Pub] renounceOwnership #
-modifiers: onlyOwner
- [Pub] transferOwnership #
-modifiers: onlyOwner
- [Int] _transferOwnership #

+CanYaCoin (Context, iBEP20, Ownable)

- [Pub] <constructor>
- [Ext] getOwner

Contract functions details

- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Int] _burn #
- [Int] _approve #
- [Int] _burnFrom #

(\$) = payable function

= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	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.	Passed
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	Low issue

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.

Security Issues

✔ Critical Severity Issues

No critical severity issue found.

✔ High Severity Issues

No high severity issues found.

✔ Medium Severity Issues

No medium severity issues found.

✔ Low Severity Issues

One low severity issue found.

1. Old compiler version

- **Description**

Contract has been deployed using too old solidity version.

- **Recommendation**

It is advisable to deploy contract using any of the latest version of solidity.

Centralization

Owner Privileges :

- CanYaCoin Contract :
 - Owner can transfer and renounce ownership.

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. Following are Admin functions:

- Transferownership
- Renounceownership

Conclusion

Smart contract contains low 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.