HackSafe

Smart Contract Security Audit Report

NYC

May **2022**

Security Status

★ ★ ★ ★ ★

www.hacksafe.io

Audit Details

Audited project
NYC

Deployer address
0x74efBfDc8CBAd83583647A2fAaDA336b8501B0A5

Client contacts
NYC token team

Blockchain
Polygon

Website
Not Provided by team

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

HackSafe was commissioned by NYC token team to perform an audit of smart contracts:

- https://polygonscan.com/address/0x737538162401A90AADfb328D4cFd936fc00B702A#code

Contract Details

Token contract details for 19.05.2022

Contract name	: Token
Contract address	: 0x737538162401A90AADfb328D4cFd936fc00B702A
Total supply	: 1 Billion
Token Ticker	: NYC
Decimals	: 18
Token Holders	: 1 address
Transactions count	: 1
Contract deployer address	: 0x74efBfDc8CBAd83583647A2fAaDA336b8501B0A5
Owner address	: 0x74efBfDc8CBAd83583647A2fAaDA336b8501B0A5

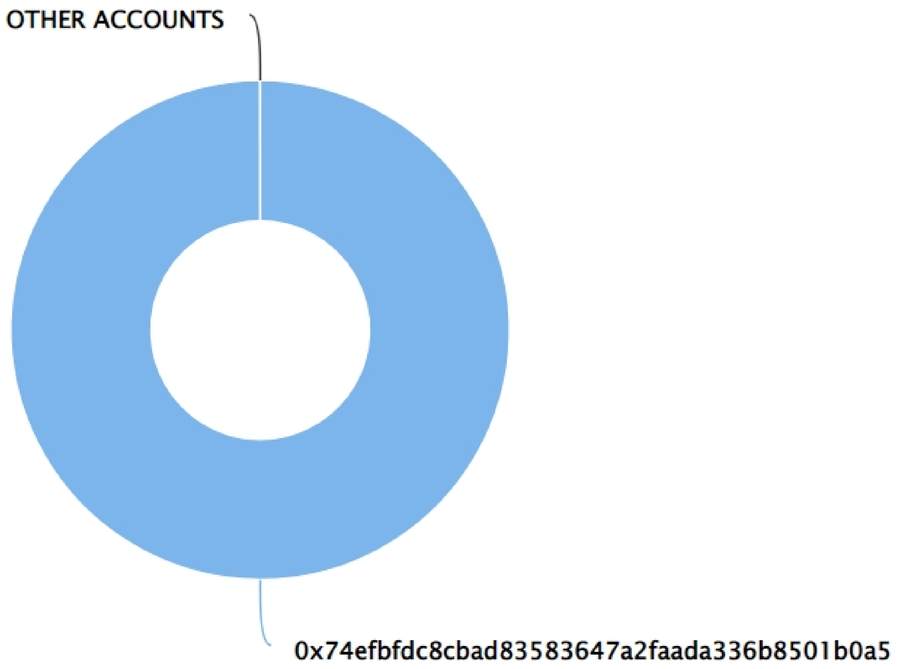
NYC Token Distribution

The top 100 holders collectively own 100.00% (1,000,000,000.00 Tokens) of NYC

Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 1

NYC Top 100 Token Holders

Source: polygonscan.com



NYC Top 1 Token Holders

(A total of 1,000,000,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x74efbfdc8cbad83583647a2faada336b8501b0a5	1,000,000,000	100.0000%

Contract functions details

+ [Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom

+ [Int] IERC20Metadata (IERC20)
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals

+ Context
    -[Int] _msgSender

+ ERC20 (Context, IERC20, IERC20Metadata)
    - <constructor> #
    -[Pub] lockvalue #
    - [Pub] name
    - [Pub] symbol
    - [Pub] decimals
    - [Pub] totalSupply
    - [Pub] balanceOf
    - [Pub] transfer #
    - [Pub] allowance
    - [Pub] approve #
    - [Pub] transferFrom #
    -[Pub] increaseAllowance#
    -[Pub] decreaseAllowance#
    - [Int] _transfer #
    - [Int] _mint #
    - [Int] _burn #
    - [Int] _approve #
    - [Int] _spendAllowance #
    -[Int] _beforeTokenTransfer
    -[Int] _afterTokenTransfer

Contract functions details

+ Token (ERC20)
    -<constructor> #
    -[Pub] mint #
      -modifiers: onlyOwner
    -[Pub] burn #

($) = 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

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 issue found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

No low severity issue found.

Owner Privileges

Owner Privileges :

- NYC Contract
    - Owner can mint tokens.

Conclusion

Smart contract contains no 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.