# Smart Contract Security Audit

## Audit details:

| | |
|---|---|
| Audited project: | Cyber Doge |
| Deployer address: | 0x358efeba7fcbd20a469645b414a914f09c8338a5 |
| Client contacts: | Cyber Doge team |
| Blockchain: | Ethereum |
| Project website: | https://cyberdogetoken.com |

May, 2021
TechRate

# 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 Cyber Doge to perform an audit of smart contracts:

- *https://etherscan.io/address/0x481578423221a35b9358cfe5400d202d2bdc66f1#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.

# Contracts details

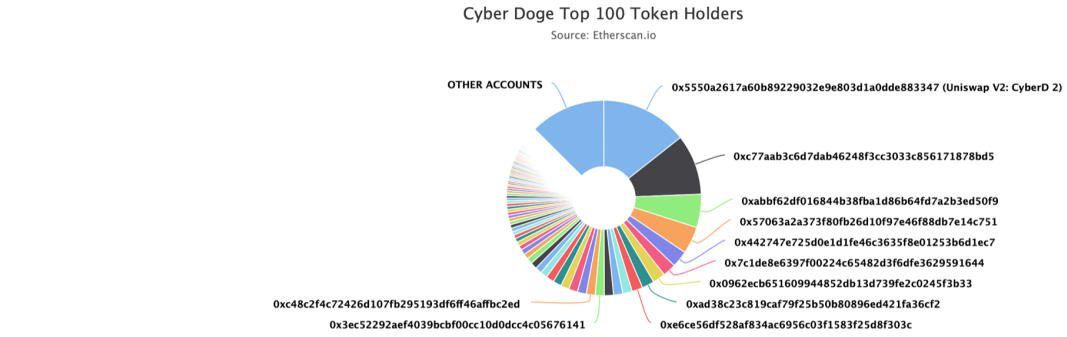
## Token contract details for 13.05.2021.

| | |
|---|---|
| Contract name: | Cyber Doge |
| Contract address: | 0x481578423221a35b9358cfe5400d202d2bdc66f1 |
| Total supply: | 100000000000000000000000000000 |
| Token ticker: | CyberD |
| Decimals: | 18 |
| Token holders: | 824 |
| Transactions count: | 6155 |
| Top 100 holders dominance: | 87.45 % |
| Compiler version: | v0.5.17+commit.d19bba13 |
| Contract deployer address: | 0x358efeba7fcbd20a469645b414a914f09c8338a5 |

# Cyber Doge token distribution

The top 100 holders collectively own 87.45% (8,745,031,099.18 Tokens) of Cyber Doge

Token Total Supply: 10,000,000,000.00 Token | Total Token Holders: 824

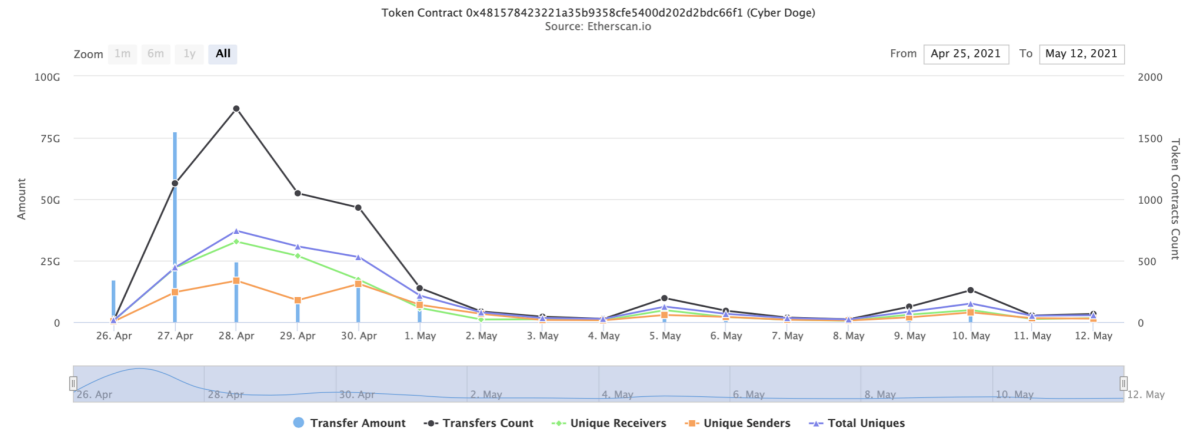



(A total of 8,745,031,099.18 tokens held by the top 100 accounts from the total supply of 10,000,000,000.00 token)

# Cyber Doge contract interaction details

Time Series: Token Contract Overview

Mon 26, Apr 2021 - Wed 12, May 2021



# Cyber Doge top 10 token holders

| Rank | Address | Quantity (Token) | Percentage |
|---|---|---|---|
| 1 | Uniswap V2: CyberD 2 | 1,437,838,476.338479309359381691 | 14.3784% |
| 2 | 0xc77aab3c6d7dab46248f3cc3033c856171878bd5 | 1,000,000,000 | 10.0000% |
| 3 | 0xabbf62df016844b38fba1d86b64fd7a2b3ed50f9 | 551,626,079.043049586592490715 | 5.5163% |
| 4 | 0x57063a2a373f80fb26d10f97e46f88db7e14c751 | 451,190,720.780612247096496262 | 4.5119% |
| 5 | 0x442747e725d0e1d1fe46c3635f8e01253b6d1ec7 | 275,076,944.211422606814868719 | 2.7508% |
| 6 | 0x7c1de8e6397f00224c65482d3f6dfe3629591644 | 222,111,244.496301721950006989 | 2.2211% |
| 7 | 0x0962ecb651609944852db13d739fe2c0245f3b33 | 210,000,000 | 2.1000% |
| 8 | 0xad38c23c819caf79f25b50b80896ed421fa36cf2 | 203,046,322.361678357881649196 | 2.0305% |
| 9 | 0xe6ce56df528af834ac6956c03f1583f25d8f303c | 179,204,560.258477436168737569 | 1.7920% |
| 10 | 0x3bd3ce01c82a12d7cff7c85a9e8bb27ae42fb548 | 157,264,121.90536667105702271 | 1.5726% |

# Contract functions details

+ Context
  - [Int] <Constructor> #
  - [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

+ ERC20 (Context, IERC20)
  - [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] _burnFrom #

+ ERC20Detailed (IERC20)
  - [Pub] <Constructor> #
  - [Pub] name
  - [Pub] symbol
  - [Pub] decimals

+ CyberDogeToken (ERC20Detailed, ERC20)
  - [Pub] <Constructor> #
    - modifiers: ERC20Detailed

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

# Issues Checking Status

| № | Issue description. | Checking status |
|---|---|---|
| 1 | Compiler errors. | Passed |
| 2 | Race conditions and Reentrancy. Cross-function race conditions. | 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. | Passed |
| 10 | Methods execution permissions. | Passed |
| 11 | Economy model of the contract. | Passed |
| 12 | The impact of the exchange rate on the logic. | 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 and usage. | 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. Known vulnerabilities of ERC-20 token

Issue:

Lack of transaction handling mechanism issue. More details here.

Recommendation:

Add the following code to the _transfer(address sender, ...) function:

```
require( _to != address(this) );
```

# Conclusion

**Smart contracts do not contain high severity issues!**

**Liquidity locking details provided by the team - [https://unicrypt.network/amm/uni/pair/0x5550a2617a60b89229032e9e803d1a0dde883347](https://unicrypt.network/amm/uni/pair/0x5550a2617a60b89229032e9e803d1a0dde883347)**

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