



Smart Contract Security Audit Report

WEEDZ TOKEN

February 2023

Security Status



www.hacksafe.io



Audit Details



Audited project

WEEDZ TOKEN



Deployer address

0x71c87346fd1c86be81fb461443f102cf67b08bfc



Client contacts

WEEDZ TOKEN 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.

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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.

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 WEEDZ TOKEN to perform an audit of smart contracts:

- <https://bscscan.com/token/0x6e14EA10A4c6cB9731b720137416dff88fC4df40#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.

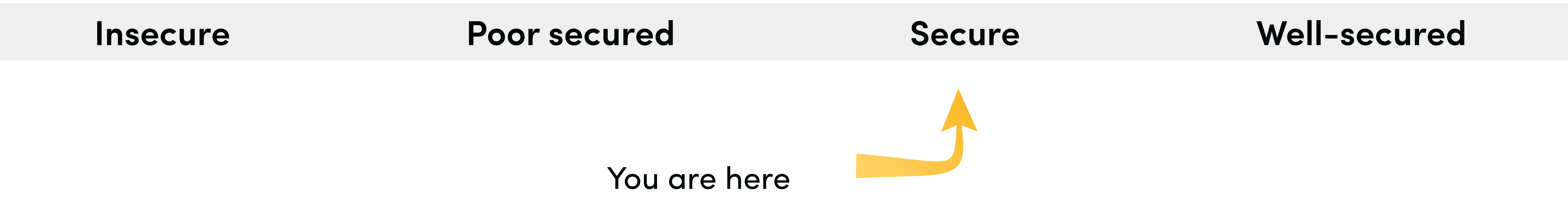
Contract Details

Token contract details for 09.02.2023

Token Type	: DEFI
Contract name	: WeedzToken
Contract address	: 0x6e14EA10A4c6cB9731b720137416dff88fC4df40
Total supply	: 362,411,722,471,732.852468
Token ticker	: weedz
Decimals	: 9
Token Holders	: 853
Transactions count	: 11,594
Compiler version	: v0.6.12+commit.27d51765
Contract deployer address	: 0x71c87346fd1c86be81fb461443f102cf67b08bf
Owner address	: 0x00

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **“Secure”**. This token contract does contain owner control as ownership has not been renounced, which do not make it fully decentralized.



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 2 low.

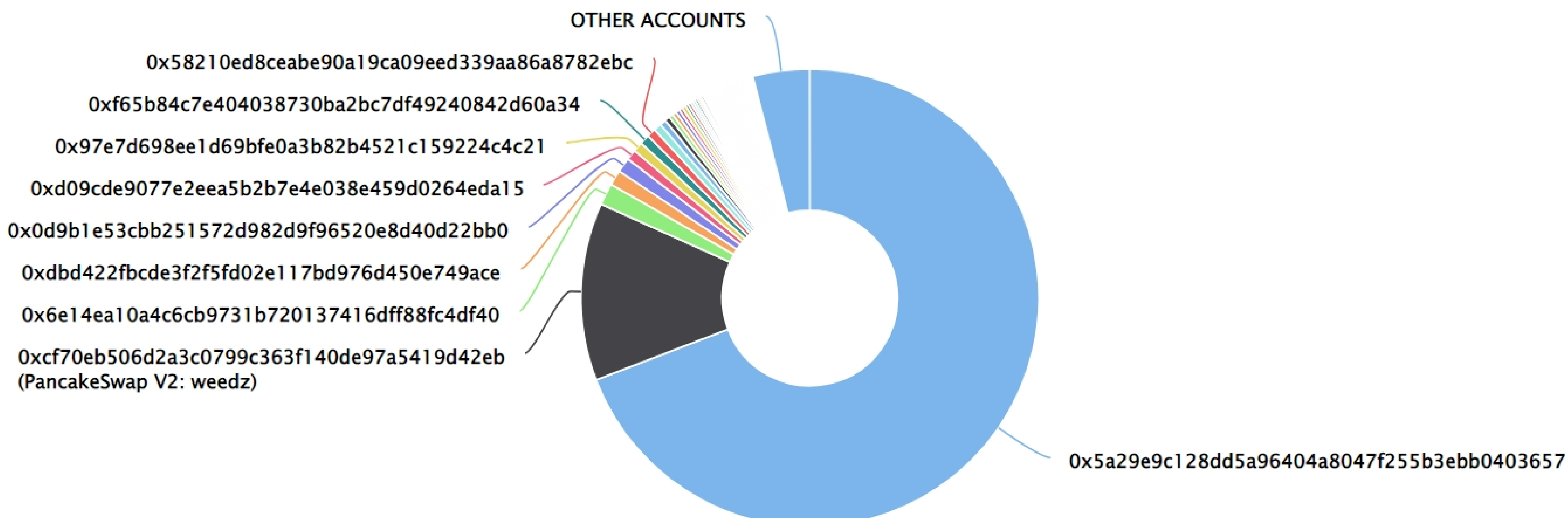
WEEDZ TOKEN Token Distribution

💡 The top 100 holders collectively own 95.98%
(347,845,035,337,406.00 Tokens) of Weedz Token

💡 Token Total Supply: 362,411,722,471,732.85 Token | Total Token Holders: 853




Weedz Token Top 100 Token Holders

Source: BscScan.com



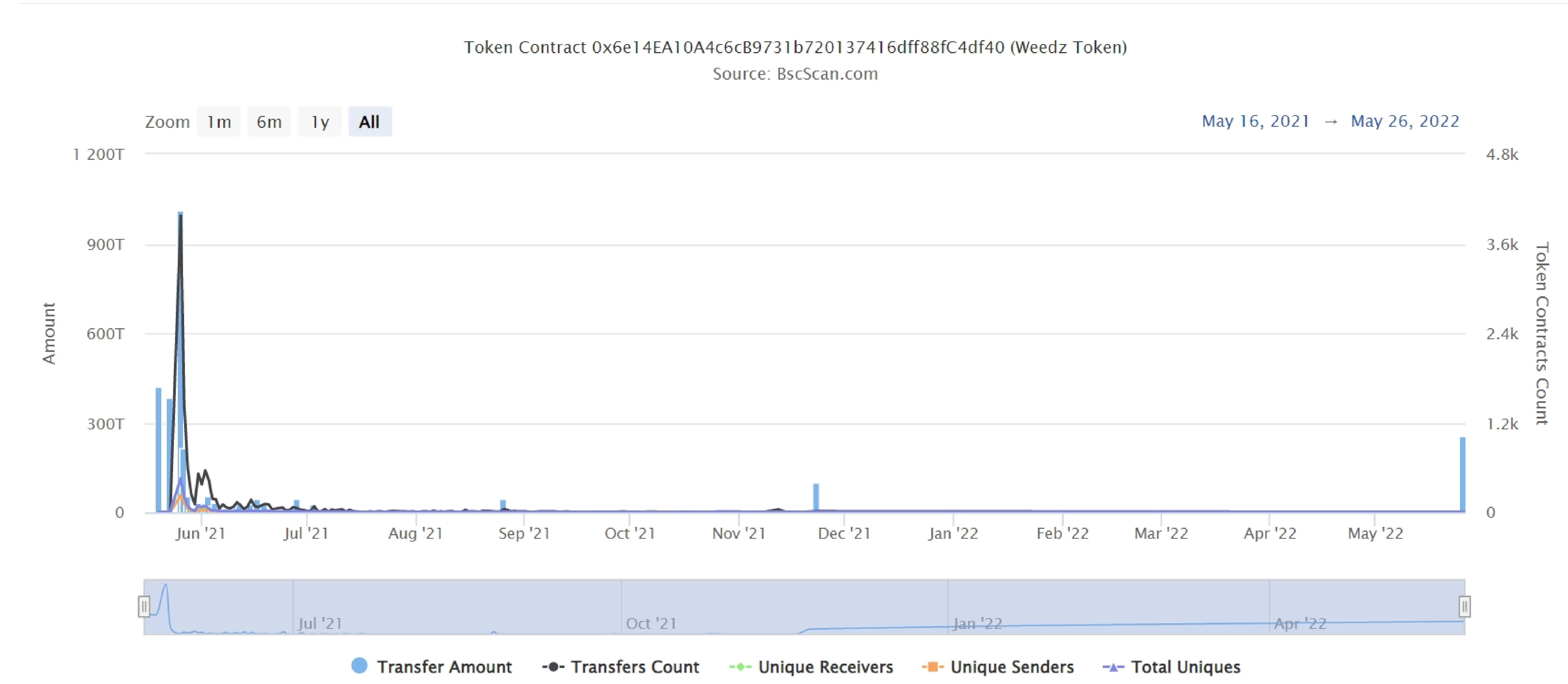
WEEDZ TOKEN Top 20 Token Holders

(A total of 347,845,035,337,406.00 tokens held by the top 100 accounts from the total supply of 362,411,722,471,732.85 token)

Rank	Address	Quantity (Token)	Percentage
1	0x5a29e9c128dd5a96404a8047f255b3ebb0403657	250,745,604,594,871.126510379	69.1881%
2	 PancakeSwap V2: weedz	45,427,596,987,192.865589207	12.5348%
3	 0x6e14ea10a4c6cb9731b720137416dff88fc4df40	5,592,438,036,495.350561535	1.5431%
4	0xdbd422fbcd3f2f5fd02e117bd976d450e749ace	3,906,613,594,899.616252316	1.0779%
5	0xd9b1e53cbb251572d982d9f96520e8d40d22bb0	3,779,622,000,000	1.0429%
6	0xd09cde9077e2eea5b2b7e4e038e459d0264eda15	2,646,421,156,296.638110819	0.7302%
7	0x97e7d698ee1d69bfe0a3b82b4521c159224c4c21	2,555,902,189,768.391663145	0.7052%
8	0xf65b84c7e404038730ba2bc7df49240842d60a34	2,501,917,500,529.726590757	0.6904%
9	0x58210ed8ceabe90a19ca09eed339aa86a8782ebc	2,244,180,267,125.234045445	0.6192%
10	0x41b24d667d3d9ff7faffed23063307fa874718e5	2,001,278,375,916.754148699	0.5522%
11	 0xfe5ff507f12addb4b7f748cd011cfa5f47e61ae4	1,592,366,388,717.72277325	0.4394%
12	0x80da34371920f521ef3bf4020b2645c4c1eeafdc	1,348,322,136,276.201688127	0.3720%
13	0x45a2c1c15b8d1af0ea76dfe0310c4502bfa993aa	1,018,293,934,806.771544916	0.2810%
14	0x2fc67e8f5ce01b2ad69959fac629ee46ed873cd3	1,016,101,464,018.604522099	0.2804%
15	0xfb6eb718b3040b53f3620ae2b038cd27d9f00905	992,137,372,015.934251341	0.2738%
16	0xf3e13d3a722596bc2acd10117449a6757afcdaba	950,501,509,533.873909183	0.2623%
17	0x07d80ae6f36a5e08dca74ce884a24d39db9934ed	944,456,380,956.772927705	0.2606%
18	0x5329b2261b287f4f5f7d35a717e487cfc12a3819	761,975,207,609.971154889	0.2103%
19	0xdf8ef7d99f0326a87585af80e3b19466fd1c8a36	736,164,717,010.362555184	0.2031%
20	0xd1db2d0fe994de9ec9de6302df8b109bdcbe9b4b	695,221,462,796.079821175	0.1918%

WEEDZ TOKEN Token Distribution

WEEDZ TOKEN Contract overview



Contract functions details

+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

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Pvt] _functionCallWithValue #

+Ownable (Context)

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

+ [Int] IUniswapV2Factory

- [Ext] createPair #

Contract functions details

+**[Int]** IUniswapV2Pair

- **[Ext]** sync **#**

+**[Int]** IUniswapV2Router01

- **[Ext]** factory

- **[Ext]** WETH

- **[Ext]** addLiquidity **#**

- **[Ext]** addLiquidityETH (\$) **#**

+**[Int]** IUniswapV2Router02 (IUniswapV2Router01)

- **[Ext]** removeLiquidityETHSupportingFeeOnTransferTokens **#**

- **[Ext]** removeLiquidityETHWithPermitSupportingFeeOnTransferTokens **#**

- **[Ext]** swapExactTokensForTokensSupportingFeeOnTransferTokens **#**

- **[Ext]** swapExactETHForTokensSupportingFeeOnTransferTokens (\$) **#**

- **[Ext]** swapExactTokensForETHSupportingFeeOnTransferTokens **#**

+RewardWallet

- **[Pub]** <Constructor> **#**

+Balancer

- **[Pub]** <Constructor> **#**

+WeedzToken (Context, IERC20, Ownable)

- **[Pub]** <Constructor> **#**

- **[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

Contract functions details

- [Pvt] _approve #
- [Pvt] _transfer #
- [Pvt] collectFee #
- [Pvt] _getReflectionRate
- [Pvt] swapAndLiquify #
 - modifiers: lockTheSwap
- [Pvt] swapTokensForEth #
- [Pvt] addLiquidity #
- [Ext] setPair #
 - modifiers: onlyOwner
- [Ext] setTaxless #
 - modifiers: onlyOwner
- [Ext] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] setFeeActive #
 - modifiers: onlyOwner
- [Ext] setTaxFee #
 - modifiers: onlyOwner
- [Ext] setBurnFee #
 - modifiers: onlyOwner
- [Ext] setLiquidityFee #
 - modifiers: onlyOwner
- [Ext] setCommunity #
 - modifiers: onlyOwner
- [Ext] setMaxTxAmount #
 - modifiers: onlyOwner
- [Ext] setMinTokensBeforeSwap #
 - modifiers: onlyOwner
- [Ext] <Fallback >(\$)

(\$) = payable function

= non-constant function

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.	Low issue
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 issue found.

✔ Medium Severity Issues

One medium severity issue found.

1. Out of gas

- **Issue:**

The function `includeAccount()` 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 `_getReflectionRate()` 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

Two 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.

2. Wrong reflection from token calculations

- **Issue :**

Missing parentheses when calculating target value.

- `tokenAmount.sub(tokenAmount.mul(_taxFee).div(10**(_feeDecimal + 2))) .mul(_getReflectionRate());`

Centralization

Owner Privileges

- WEEDZ TOKEN Coin Contract:
 - Owner can change the tax, burn and liquidity fee.
 - Owner can change the maximum transaction amount.
 - Owner can change uniswapV2Pair.
 - Owner can exclude from the taxes.
 - Owner can disable and enable fees.
 - Owner can change community fee.
 - Owner can change minimum amount of tokens needed to swap.

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 not create trouble as smart contract ownership has been renounced.

Conclusion

Smart contract contains low and 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.