



# **Smart Contract Security Audit**

<u>TechRate</u> May, 2021

## **Audit Details**



Audited project

Weedz Token



**Deployer address** 

0x71c87346fd1C86BE81FB461443f102cF67b08bFC



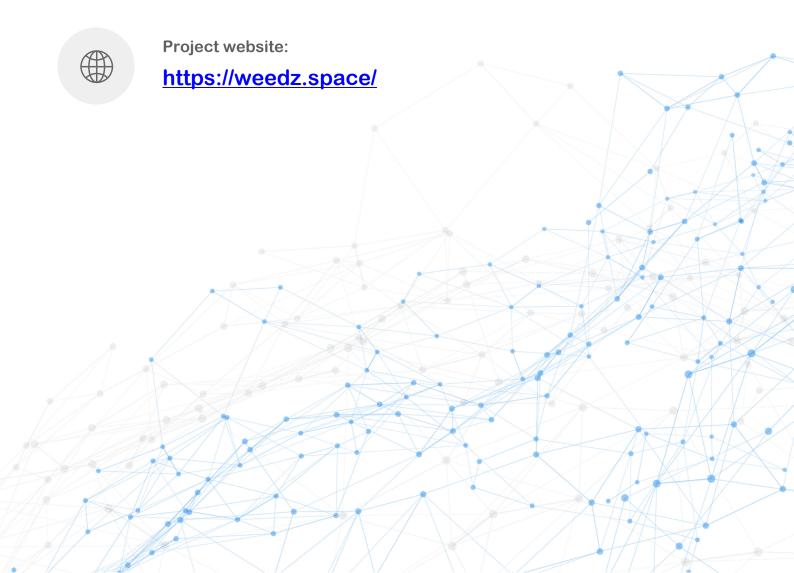
**Client contacts:** 

Weedz Token team



Blockchain

**Binance Smart Chain** 



#### **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 Weedz Token to perform an audit of smart contracts:

https://bscscan.com/address/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 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.

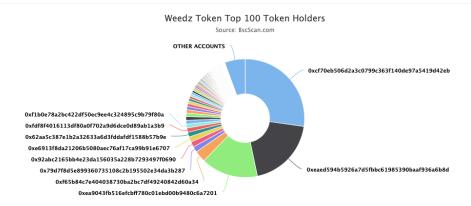
## **Contracts Details**

#### Token contract details for 30.05.2021

Contract name	Weedz Token	
Contract address	0x6e14EA10A4c6cB9731b720137416dff88fC4df40	
Total supply	390690700756112110583709	
Token ticker	weedz	
Decimals	9	
Token holders	577	
Transactions count	6,328	
Top 100 holders dominance	94.41%	
Liquidity fee	2	
Tax fee	4	
Total tax fees	39079065658517185888569	
Uniswap V2 pair	0xcf70eb506d2a3c0799c363f140de97a5419d42eb	
Contract deployer address	0x71c87346fd1C86BE81FB461443f102cF67b08bFC	
Contract's current owner address	0x000000000000000000000000000000000000	

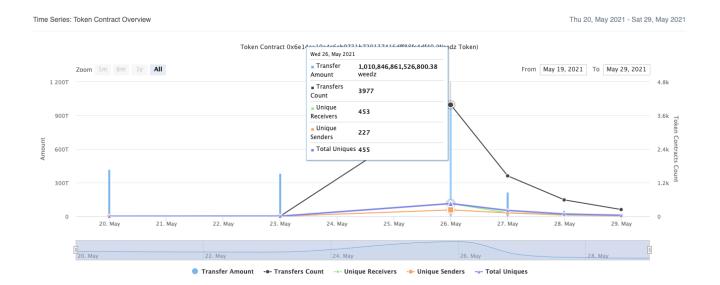
### **Weedz Token Token Distribution**

? The top 100 holders collectively own 94.41% (368,862,516,047,871.00 Tokens) of Weedz Token



(A total of 368,862,516,047,871.00 tokens held by the top 100 accounts from the total supply of 390,690,700,756,112.11 token)

## Weedz Token Contract Interaction Details



# Weedz Token Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1		106,449,731,837,328.290475975	27.2465%
2		76,026,741,665,490	19.4596%
3	0xea9043fb516efcbff780c01ebd00b9480c6a7201	60,792,243,915,579.086663466	15.5602%
4	0xf65b84c7e404038730ba2bc7df49240842d60a34	12,290,065,730,869.447308757	3.1457%
5	0x79d7f8d5e899360735108c2b195502e34da3b287	5,898,482,781,610.027040478	1.5098%
6	0x92abc2165bb4e23da156035a228b7293497f0690	5,836,243,302,215.903613659	1.4938%
7	0xe6913f8da21206b5080aec76af17ca99b91e6707	5,664,240,585,914.854187207	1.4498%
8	0x62aa5c387e1b2a32633a6d3fddafdf1588b57b9e	5,073,571,001,389.130587284	1.2986%
9	0xfdf8f4016113df80a0f702a9d6dce0d89ab1a3b9	4,562,423,250,735.079927759	1.1678%
10	0xf1b0e78a2bc422df50ec9ee4c324895c9b79f80a	4,198,691,171,570.313703053	1.0747%

### Weedz Token LP Token Holders

Rank	Address	Quantity	Percentage
1		2,958.527595473194161456	88.8377%
2		329.735661256675406646	9.9012%
3	0xaa3d85ad9d128dfecb55424085754f6dfa643eb1	29.884117125991860216	0.8974%
4	0x07d80ae6f36a5e08dca74ce884a24d39db9934ed	12.115760010425940241	0.3638%
5	<u> </u>	0.00000000000001	0.0000%

#### **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 - [Int] ceil + [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Prv] functionCallWithValue # + Ownable (Context) - [Int] <Constructor> # - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner + [Int] IUniswapV2Factory - [Ext] createPair # + [Int] IUniswapV2Pair - [Ext] sync # + [Int] IUniswapV2Router01 - [Ext] factory - [Ext] WETH - [Ext] addLiquidity #

- [Ext] addLiquidityETH (\$)

```
+ [Int] IUniswapV2Router02 (IUniswapV2Router01)
 - [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #

    - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

 - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
 - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens ($)
+ RewardWallet
 - [Pub] <Constructor>#
+ Balancer
 - [Pub] <Constructor>#
+ WeedzToken (Context, IERC20, Ownable)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Int] find2Percent
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Pub] isExcluded
 - [Pub] reflectionFromToken
 - [Pub] tokenFromReflection
 - [Ext] excludeAccount #
   - modifiers: onlyOwner
 - [Ext] includeAccount #
  - modifiers: onlyOwner
 - [Prv] _approve #
 - [Prv] _transfer #
 - [Prv] collectFee #
 - [Prv] _getReflectionRate
 - [Prv] swapAndLiquify #
   - modifiers: lockTheSwap
 - [Prv] swapTokensForEth #
 - [Prv] 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**

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.	Low issues
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. 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.

## 2. Wrong reflection from token calculations lssue:

Missing parentheses when calculating target value.
 tokenAmount
 .sub(tokenAmount.mul(\_taxFee).div(10\*\*(\_feeDecimal + 2)))
 .mul( getReflectionRate()):

# Owner privileges (In the period when the owner is not renounced)

Owner can change the tax, burn and liquidity fee.

Owner can change the maximum transaction amount.

```
ftrace|funcSig
function setMaxTxAmount(uint256 amount 1) external onlyOwner {
    maxTxAmount = amount 1;
}
```

Owner can change uniswapV2Pair.

```
ftrace|funcsig
function setPair(address pair) external onlyOwner {
    uniswapV2Pair = pair1;
}
```

Owner can exclude from the taxes.

```
ftrace|funcSig
function setTaxless(address account1, bool value1) external onlyOwner {
   isTaxless[account1] = value1;
}
```

Owner can disable and enable fees.

```
ftrace|funcSig
function setFeeActive(bool value1) external onlyOwner {
    isFeeActive = value1;
}
```

Owner can change community fee.

```
ftrace|funcSig
function setCommunity(uint256 amount 1) external onlyOwner {
    communityFee = amount 1;
}
```

Owner can change minimum amount of tokens needed to swap.

```
ftrace|funcSig
function setMinTokensBeforeSwap(uint256 amount1) external onlyOwner {
    minTokensBeforeSwap = amount1;
}
```

#### Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team: https://app.unicrypt.network/amm/pancakev2/pair/0xcF70Eb506d2A3c0799c363F140DE97A5419d42EB

Ownership renounce provided by the team: https://bscscan.com/tx/0x0da4292eed51b06a0e222055f91bace5f9e 910e18e6dfb7e88464b6484bc3196#eventlog

#### TechRate 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.

