

Smart Contract Security Audit Report

TOKE.N

April 2023

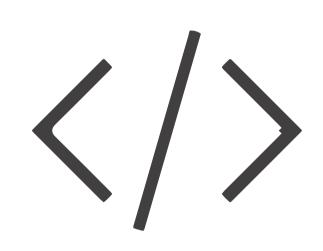


Audit Details



Audited project

TOKE.N



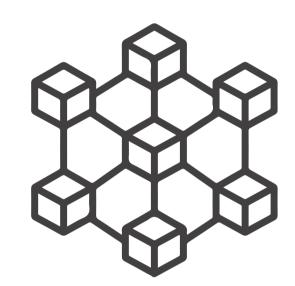
Deployer address

0xcf5fb7da3a6c619293fd1932adb01c653e434029



Client contacts

TOKE.N team



Blockchain

Binance smart chain



Website

Not Provided

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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.

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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.

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Background

HackSafe was commissioned by TOKE.N to perform an audit of smart contracts:

• https://bscscan.com/token/0xF8D4ccd333F893FC1Ad75B626a2C82B4BC7Ccbdd#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 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.

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Contract Details

Token contract details for 07.04.2023

Type	: NFT
Contract name	: TOKEN
Contract address	: 0xF8D4ccd333F893FC1Ad75B626a2C82B4BC7Ccbdd
Total supply	: 981,122,185,591.779958
Token Ticker	: TOKE.N
Decimals	: 9
Token Holders	: 1,125
Transactions count	: 10,563
Compiler version	: v0.8.4+commit.c7e474f2
Contract deployer address	: 0xcf5fb7da3a6c619293fd1932adb01c653e434029
Owner address	: 0Xcf5fb7da3a6c619293fd1932adb01c653e434029

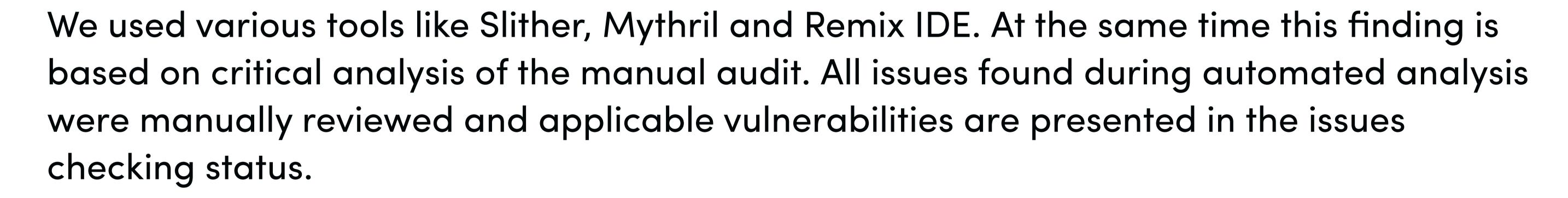
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Audit Summary

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.

Insecure Poor secured Secure Well-secured

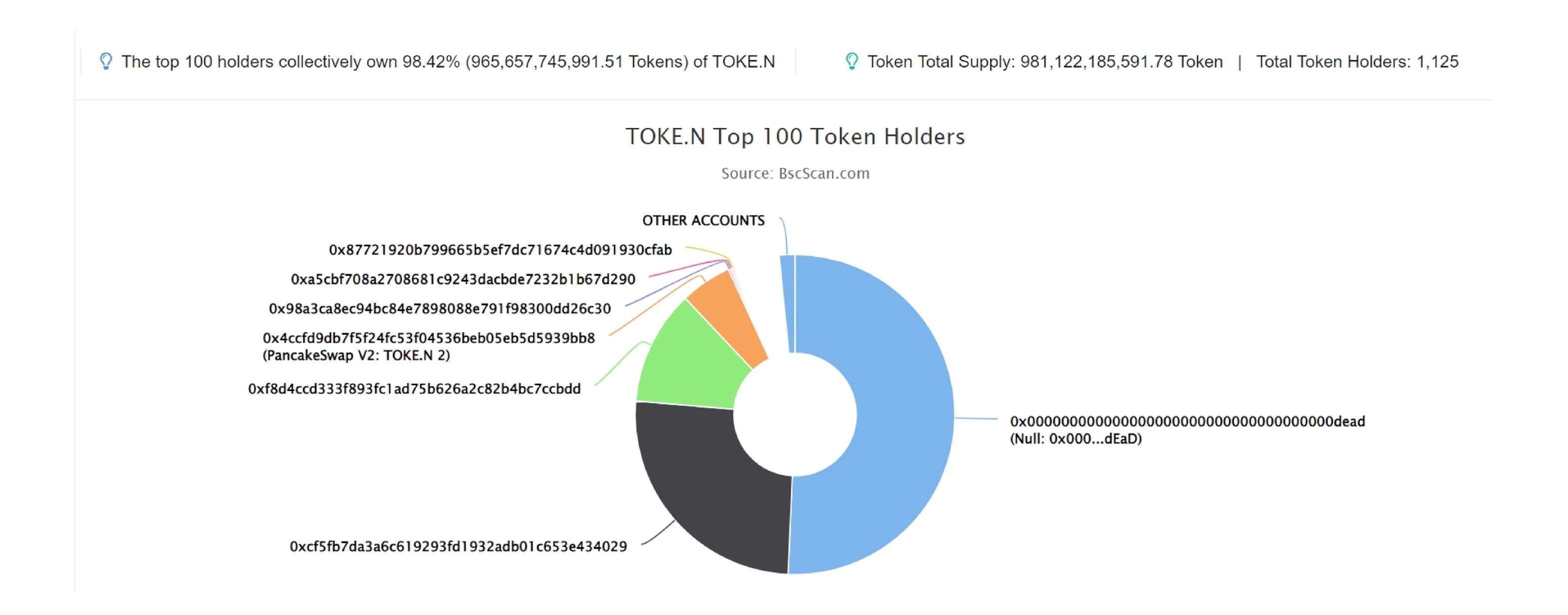
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We found 0 critical, 0 high, 0 medium and 0 low and some very low-level issues. These issues are not critical ones.

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TOKE.N Token Distribution



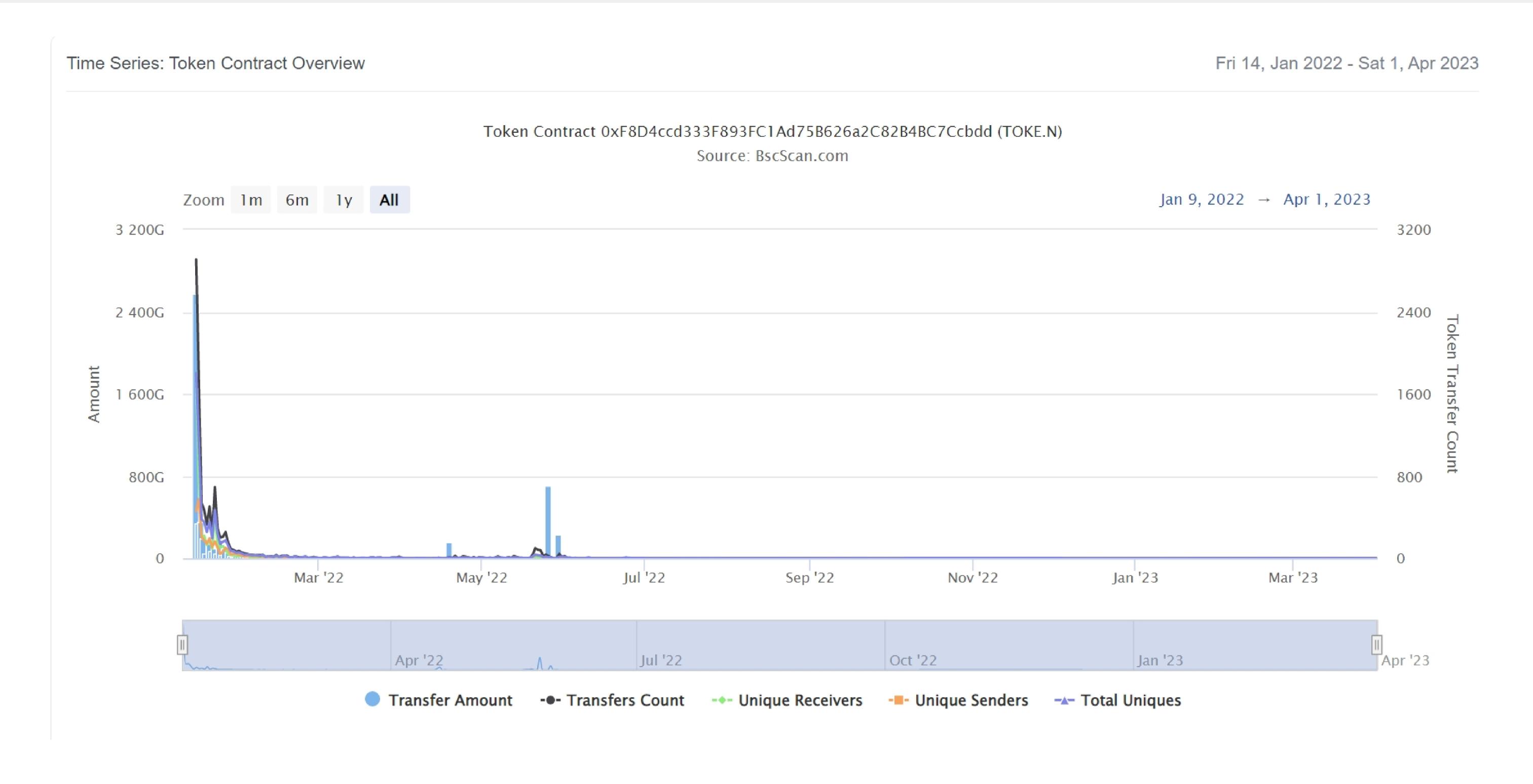
TOKE.N Token Top 20 Token Holders

(A total of 965,657,745,991.51 tokens held by the top 100 accounts from the total supply of 981,122,185,591.78 token)

Rank	Address	Quantity (Token)	Percentage
1	Null: 0x000dEaD	497,438,006,529.6575	50.7009%
2	0xcf5fb7da3a6c619293fd1932adb01c653e434029	251,725,440,810.319375405	25.6569%
3	①xf8d4ccd333f893fc1ad75b626a2c82b4bc7ccbdd	113,784,545,677.993297149	11.5974%
4	PancakeSwap V2: TOKE.N 2	50,906,336,041.808182759	5.1886%
5	0x98a3ca8ec94bc84e7898088e791f98300dd26c30	1,887,052,687.683082201	0.1923%
6	0xa5cbf708a2708681c9243dacbde7232b1b67d290	1,838,994,774.562404018	0.1874%
7	0x87721920b799665b5ef7dc71674c4d091930cfab	1,577,408,544.253856039	0.1608%
8	0xf7f9445287a3076be7e4e2fa26585971370d9588	1,429,856,850.699159928	0.1457%
9	0x625ec337cd29227f43a036f47b81a73ddf91ce67	1,367,867,135.38929511	0.1394%
10	0xa5da25819b6b0861af5445bf10943e8a68998746	1,112,522,947.857945253	0.1134%
11	0xbc7ef363137d6707e512a75f48ee9251ba39b064	1,054,335,351	0.1075%
12	0xc78cf9719ef25dc1880b02249fb8bd3bdab1b272	1,054,335,351	0.1075%
13	0x5d9b1972075dd6f1094a3be4549e06ce38b13cea	1,054,335,351	0.1075%
14	0x60c7707607ec2960846cd2e6cfdb4e0605080d35	1,054,335,351	0.1075%
15	0x5d47ff374e2aaf3963994569ab90ddafb1a0e6e6	1,054,335,351	0.1075%
16	0x4a8f35f6451719f7953c70a64798f6e785b31118	1,054,335,351	0.1075%
17	0x8fda3f6b19df2091bead80e35e8a5d6cb1e4a0c0	1,054,335,351	0.1075%
18	0x7ca375598b04090c89005649f1136743469b8c46	1,054,335,351	0.1075%
19	0x1634109480ba642179619313abd12d8db56a2c68	1,054,335,351	0.1075%
20	0x1d556b84c97ec4c22bf24cd676883d93714123f1	1,054,335,351	0.1075%

TOKE.N Token Distribution

TOKE.N Token Contract Overview



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```
+[Int] IBEP20
    -[Ext] totalSupply
    -[Ext] decimals
    -[Ext] symbol
    -[Ext] name
    -[Ext] getOwner
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #
+[Int] IPancakeERC20
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transfer #
    -[Ext] transferFrom #
    -[Ext] DOMAIN_SEPARATOR
    -[Ext] PERMIT_TYPEHASH
    -[Ext] nonces
    -[Ext] permit #
+[Int] IPancakeFactory
    -[Ext] feeTo
    -[Ext] feeToSetter
    -[Ext] getPair
    -[Ext] allPairs
    -[Ext] allPairsLength
    -[Ext] createPair #
    -[Ext] setFeeTo #
    -[Ext] setFeeToSetter #
+[Int] IPancakeRouter01
    -[Ext] addLiquidity #
    -[Ext] addLiquidityETH ($)
```

```
-[Ext] removeLiquidity #
    -[Ext] removeLiquidityETH #
    -[Ext] removeLiquidityWithPermit #
    -[Ext] removeLiquidityETHWithPermit #
    -[Ext] swapExactTokensForTokens #
    -[Ext] swapTokensForExactTokens #
    -[Ext] swapExactETHForTokens ($)
    -[Ext] swapTokensForExactETH #
    -[Ext] swapExactTokensForETH #
    -[Ext] swapETHForExactTokens ($)
    -[Ext] factory
    -[Ext] WETH
    -[Ext] quote
    -[Ext] getamountOut
    -[Ext] getamountIn
    -[Ext] getamountsOut
    -[Ext] getamountsIn
+[Int] IPancakeRouter02 (IPancakeRouter01)
    -[Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
    -[Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
    -[Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
    -[Ext] swapExactETHForTokensSupportingFeeOnTransferTokens ($)
    -[Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
+Ownable
    -[Pub] <Constructor> #
    -[Pub] owner
    -[Ext] renounceOwnership #
     - modifiers: onlyOwner
    -[Ext] transferOwnership #
     - modifiers: onlyOwner
+[Lib] Address
    -[Int] isContract
    -[Int] sendValue #
    -[Int] functionCall #
    -[Int] functionCall #
    -[Int] functionCallWithValue #
    -[Int] functionCallWithValue #
```

```
-[Int] functionStaticCall
    -[Int] functionStaticCall
    -[Int] functionDelegateCall #
    -[Int] functionDelegateCall #
    -[Pvt] _verifyCallResult
+[Lib] EnumerableSet
    -[Pvt] _add #
    -[Pvt] _remove #
    -[Pvt] _contains
    -[Pvt] _length
    -[Pvt] _at
    -[Int] add #
    -[Int] remove #
    -[Int] contains
    -[Int] length
    -[Int] at
    -[Int] add #
    -[Int] remove #
    -[Int] contains
    -[Int] length
    -[Int] at
    -[Int] add #
    -[Int] remove #
    -[Int] contains
    -[Int] length
    -[Int] at
+ TOKEN (IBEP20, Ownable)
    -[Pub] <Constructor> #
    -[Pvt] _transfer #
    -[Pvt] _taxedTransfer #
    -[Pvt] _feelessTransfer#
    -[Pvt] _calculateFee
    -[Pvt] _addToken #
    -[Pvt] _removeToken #
    -[Pvt] _swapContractToken #
     - modifiers: lockTheSwap
    -[Pvt] _swapTokenForBNB #
```

```
-[Pvt] _addLiquidity #
-[Ext] getLiquidityReleaseTimeInSeconds
-[Ext] getBurnedTokens
-[Ext] getLimits
-[Ext] getTaxes
-[Ext] getAddressBuyLockTimeInSeconds
-[Ext] getBuyLockTimeInSeconds
-[Ext] AddressResetBuyLock #
-[Ext] TeamWithdrawALLMarketingBNB #
 - modifiers: onlyOwner
-[Ext] TeamWithdrawXMarketingBNB #
 - modifiers: onlyOwner
-[Ext] TeamSwitchManualBNBConversion #
 - modifiers: onlyOwner
-[Ext] TeamChangeAntiWhale #
 - modifiers: onlyOwner
-[Ext] TeamChangeTeamWallet #
 - modifiers: onlyOwner
-[Ext] TeamChangeConstructionWallet #
 - modifiers: onlyOwner
-[Ext] TeamDisableBuyLock #
 - modifiers: onlyOwner
-[Ext] TeamSetBuyLockTime #
 - modifiers: onlyOwner
-[Ext] TeamUpdateAmountToSwap #
 - modifiers: onlyOwner
-[Ext] AddWalletExclusion #
 - modifiers: onlyOwner
-[Ext] TeamSetTaxes #
 - modifiers: onlyOwner
-[Ext] TeamCreateLPandBNB #
 - modifiers: onlyOwner
-[Ext] teamUpdatePancakeRouter #
  modifiers: onlyOwner
-[Ext] TeamUpdateLimits #
 - modifiers: onlyOwner
-[Ext] SetupEnableTrading #
 - modifiers: onlyOwner
```

```
-[Ext] SetupLiquidityTokenAddress #
     - modifiers: onlyOwner
    -[Ext] TeamProlongLiquidityLockInSeconds #
     - modifiers: onlyOwner
    -[Pvt] _prolongLiquidityLock #
    -[Ext] TeamReleaseLiquidity #
     - modifiers: onlyOwner
    -[Ext] TeamRemoveLiquidity #
     - modifiers: onlyOwner
    -[Ext] TeamRemoveRemainingBNB #
     - modifiers: onlyOwner
    -[Ext] <Fallback> ($)
    -[Ext] <Fallback> ($)
    -[Ext] getOwner
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Pvt] _approve #
    -[Ext] transferFrom #
    -[Ext] increaseAllowance #
    -[Ext] decreaseAllowance #
($) = payable function
# = non-constant function
```

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Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	
2.	Missing Input Validation	
3.	Race conditions and Reentrancy. Cross-function race conditions.	
4.	Possible delays in data delivery	
5.	Oracle calls.	
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	Passed

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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.

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Security Issues

- Critical Severity Issues
 No critical severity issue found.
- High Severity IssuesNo high severity issue found.
- Medium Severity Issues
 No Medium severity issues found.
- Low Severity IssuesNo low severity issue found.

Notes:

• marketingBalance calculated and withdrawn not in one to one proportion.

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Centralization

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

- TOKE.N Contract:
 - Owner can change taxes.
 - Owner can manually call _swapContractToken function.
 - Owner can change PancakeRouter address.
 - Owner can change balance and sell limits.
 - Owner can enable trading(already called).
 - Owner can change liquidity token address.
 - Owner can increase _liquidityUnlockTime.
 - Owner can withdraw liquidity to team wallet if it is not locked.
 - Owner can remove liquidity.
 - Owner can withdraw contract balance if it is not locked.
 - Owner can withdraw marketing balance.
 - Owner can disable auto call of _swapContractToken function.
 - Owner can change antiWhale.
 - Owner can change teamWallet and ConstructionWallet addresses.
 - Owner can disable buy lock.
 - Owner can change currentAmountToSwap.
 - Owner can exclude addresses.
 - Owner can change buy lock time.

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Conclusion

Smart contract contains no medium severity issues! Liquidity pair contract's security is not checked due to out of scope.

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.

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