



**TechRate**

AUDIT COMPANY

# Smart Contract Security Audit

[TechRate](#)

February, 2022

# Audit Details



Audited project

**Bruno Inu**



Deployer address

**0xc654f1deb749eaf76af7faa11b83f2e39524ed0b**



Client contacts:

**Bruno Inu team**



Blockchain

**Ethereum**



Project website:

<https://brunoinu.com>

# 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 Bruno Inu to perform an audit of smart contracts:

<https://etherscan.io/address/0xc9bca77c9fed40710727948f6a934208918d316a#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 07.02.2022

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**Contract name** Bruno Inu

**Contract address** 0xc9bCA77c9FE40710727948F6a934208918D316A

**Total supply** 1,000,000,000,000

**Token ticker** BRUNO

**Decimals** 9

**Token holders** 32

**Transactions count** 122

**Top 100 holders dominance** 99.74%

**Contract deployer address** 0xc654f1deb749eaf76af7faa11b83f2e39524ed0b

**Contract's current owner address** 0x00

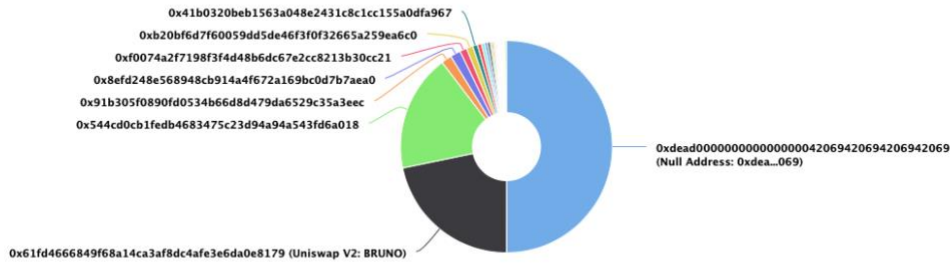
# Bruno Inu Token Distribution

The top 100 holders collectively own 99.74% (997,363,839,487.76 Tokens) of Bruno Inu

Token Total Supply: 1,000,000,000,000.00 Token | Total Token Holders: 32

## Bruno Inu Top 100 Token Holders

Source: Etherscan.io



(A total of 997,363,839,487.76 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000.00 token)

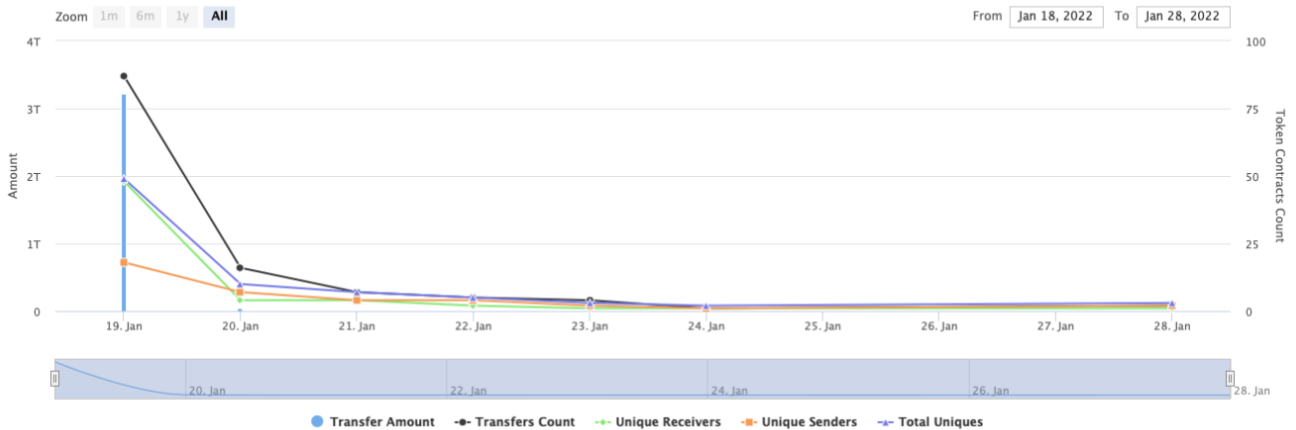
# Bruno Inu Contract Interaction Details

Time Series: Token Contract Overview

Wed 19, Jan 2022 - Fri 28, Jan 2022

## Token Contract 0xc9bca77c9fed40710727948f6a934208918d316a (Bruno Inu)

Source: Etherscan.io



# Bruno Inu Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">Null Address: 0xdea...069</a>	500,000,000,000	50.0000%
2	<a href="#">Uniswap V2: BRUNO</a>	217,796,842,974.040668039	21.7797%
3	<a href="#">0x544cd0cb1fedb4683475c23d94a94a543fd6a018</a>	178,375,434,515.854561657	17.8375%
4	<a href="#">0x91b305f0890fd0534b66d8d479da6529c35a3eec</a>	15,926,192,458.688269212	1.5926%
5	<a href="#">0x8efd248e568948cb914a4f672a169bc0d7b7aea0</a>	15,725,358,289.879976652	1.5725%
6	<a href="#">0xf0074a2f7198f3f4d48b6dc67e2cc8213b30cc21</a>	10,651,340,569.902364466	1.0651%
7	<a href="#">0xb20bf6d7f60059d5de46f3f0f32665a259ea6c0</a>	9,937,354,635.777206585	0.9937%
8	<a href="#">0x41b0320beb1563a048e2431c8c1cc155a0dfa967</a>	7,246,129,087.386748967	0.7246%
9	<a href="#">0x1d54d9ab6964ded4129f4e0effe59e0b024a1510</a>	6,237,994,972.782293336	0.6238%
10	<a href="#">0x747646eccfa103279359a19c5a2b2ed7b82c7914</a>	4,754,349,896.479583153	0.4754%



# 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 #
- [Prv] \_functionCallWithValue #

## + Ownable (Context)

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

## + [Int] IUniswapV2Factory

- [Ext] createPair #

## + [Int] IUniswapV2Router02

- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidityETH (\$)

## + Brunolnu (Context, IERC20, Ownable)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals



- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Ext] setCooldownEnabled #
  - modifiers: onlyOwner
- [Prv] tokenFromReflection
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Prv] \_approve #
- [Prv] \_transfer #
- [Prv] swapTokensForEth #
  - modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Ext] manualswap #
- [Ext] manualsend #
- [Ext] openTrading #
  - modifiers: onlyOwner
- [Pub] setBots #
  - modifiers: onlyOwner
- [Pub] delBot #
  - modifiers: onlyOwner
- [Prv] \_tokenTransfer #
- [Prv] \_transferStandard #
- [Prv] \_transferToExcluded #
- [Prv] \_transferFromExcluded #
- [Prv] \_transferBothExcluded #
- [Prv] \_takeTeam #
- [Prv] \_reflectFee #
- [Ext] <Fallback> (\$)
- [Prv] \_getValues
- [Prv] \_getTValues
- [Prv] \_getRValues
- [Prv] \_getRate
- [Prv] \_getCurrentSupply
- [Ext] setMaxTxPercent #
  - modifiers: onlyOwner

(\$) = 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

No low severity issues found.

## Notes:

- Contract has exclusion from reward logic but do not have functions to exclude.

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

- Owner can enable cooldown(user to user trading restriction).
- Owner can change the maximum transaction amount.
- Owner can add and remove bots(no transferring between this addresses).
- Fee address can withdraw half of the contract balance to fee address another half to marketing address.

# Conclusion

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

Liquidity locking details provided by the team:

<https://www.team.finance/view-coin/0xc9bCA77c9FE40710727948F6a934208918D316A?name=Bruno%20Inu&symbol=BRUNO>

Ownership renounce details provided by the team:

<https://etherscan.io/tx/0xd9bacfa82c7d6342e8b3af5cfd26dc0c4e598356efb49b0767af9a7ae992ce10>

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***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.***