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AUDIT COMPANY

Smart Contract Security Audit

TechRate

May, 2021

Audit Details



Audited project

BobCatSwap Token



Deployer address

0x1c1Fc002Ddb5326e8bf38DD1465D41DbA19172f0



Client contacts:

BobCatSwap Token team



Blockchain

Binance Smart Chain



Project website:

<https://bobcatswap.finance/>

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 BobCatSwap Token to perform an audit of smart contracts:

<https://bscscan.com/address/0x1dB2CF88261143711e7318982b3671Fc9238E203#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 31.05.2021

Contract name	BobCatSwap Token
Contract address	0x1dB2CF88261143711e7318982b3671Fc9238E203
Total supply	5_000
Token ticker	BOBCAT
Decimals	18
Token holders	78
Transactions count	939
Top 100 holders dominance	100.00%
Contract deployer address	0x1c1Fc002Ddb5326e8bf38DD1465D41DbA19172f0
Contract's current owner address	0x0dff3a347091f96bfc139c4cb149289e38db66bf

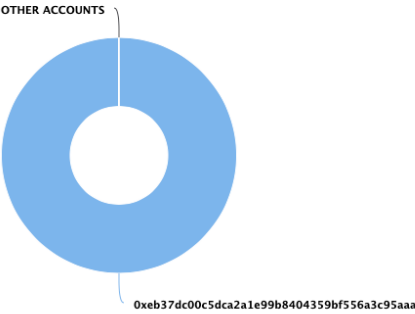
BobCatSwap Token Token Distribution

The top 100 holders collectively own 100.00% (200,000,000,000.00 Tokens) of HedgeDAO

Token Total Supply: 200,000,000,000.00 Token | Total Token Holders: 1

HedgeDAO Top 100 Token Holders

Source: BscScan.com



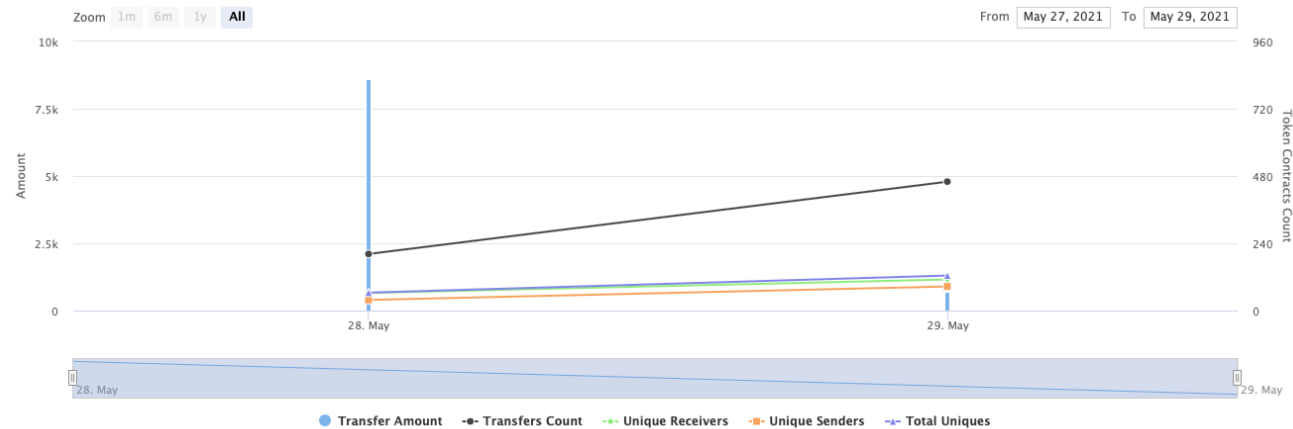
(A total of 200,000,000,000.00 tokens held by the top 100 accounts from the total supply of 200,000,000,000.00 token)

BobCatSwap Token Contract Interaction Details




Time Series: Token Contract Overview

Fri 28, May 2021 - Sat 29, May 2021

Token Contract 0x1d82CF88261143711e7318982b3671Fc9238E203 (BobCatSwap Token)
Source: BscScan.com



BobCatSwap Token Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x1c1fc002ddb5326e8bf38dd1465d41dba19172f0	3,999	79.9800%
2	 0x0dff3a347091f96bfc139c4cb149289e38db66bf	681.237165520136635906	13.6247%
3	 0xbcd94f2ade7489c827400a0337f467bc2a5e0fc3	74.827588016449295928	1.4966%
4	0xb0016400d45af72a5fe9cd134a5de6aac6adc04a	33.821545059996998919	0.6764%
5	0x227067b1bc9f6c140e508c1fd4dc495eee91fa2c	15.4406621727099	0.3088%
6	0xfcfcd61c1fbec00fa4af665931ec2e0847dcc	14.102197752328801705	0.2820%
7	 0x11e2b4983e55cf2b089c5315b707a9ab1cacf35d	13.905437040127387767	0.2781%
8	0x11fde61c867fe7810fcc13f476092ab3a2ab7ba5	10.643774822792171332	0.2129%
9	0xcc6c0414b42d7ba93908c35425e45843b87f0232	10.106409836645063028	0.2021%
10	0xa785750e133e76d516c8d91346769a65e06cecd	9.678094347869700097	0.1936%



Contract functions details

+ Context

- [Int] _msgSender
- [Int] _msgData

+ Ownable (Context)

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

+ [Int] IBEP20

- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [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

+ BEP20 (Context, IBEP20, Ownable)

- [Pub] <Constructor> #
- [Ext] getOwner
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] mint #
 - modifiers: onlyOwner
- [Int] _transfer #

- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _burnFrom #

+ BobCatSwapToken (BEP20)

- [Pub] mint #
 - modifiers: onlyOwner
- [Ext] delegates
- [Ext] delegate #
- [Ext] delegateBySig #
- [Ext] getCurrentVotes
- [Ext] getPriorVotes
- [Int] _delegate #
- [Int] _moveDelegates #
- [Int] _writeCheckpoint #
- [Int] safe32
- [Int] getChainId

(\$) = 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.

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

- Owner can mint before sending ownership to MasterChef.

```
function mint(address _to, uint256 _amount) public onlyOwner {  
    _mint(_to, _amount);  
    _moveDelegates(address(0), _delegates[_to], _amount);  
}
```

Conclusion

Smart contracts contain owner privileges.

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.



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