Smart Contract Audit

BeerusCat

September 7th, 2022

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Overview

`BeerusCat` is a token launched on the BNB Chain, using a customized version of a smart contract created by DesuFi. The objective of this report is to analyze their smart contract's features and disclose potential vulnerabilities and risks.

Name	BeerusCat
Website	https://beeruscat.tech
Token Name	BeerusCat
Token Ticker	$BCAT
Blockchain	BNB Chain
Address	0x3a310e6EAf960F9EA208764e9D299ea62A0ea53d

Contract Issues

Compiler errors	Passed
Oracle calls	Passed
Emit function fidelity	Passed
Timestamp dependence	Passed
DoS with revert	Passed
DoS with block gas limit	Passed
Private data leaks	Passed
Safe OpenZeppelin usage	Passed
Fallback functions	Passed
Timestamp dependency	Passed

Summary
No contract issues have been identified.

Security Issues

Exploits

Dangerous vulnerabilities that will lead to loss of funds and or impairment of the contract and its functions.

No issues present.

Function Bugs

Significant bugs or mistakes with isolated impact, affecting only specific functions of the contract without compromising overall functionality.

No issues present.

Trivial Mistakes

Syntax or spelling mistakes that are of no consequence to the functionality of the contract.

No issues present.

Summary
No security issues have been identified.

Team Privileges

Tradability

Some smart contracts may contain functions that can freeze all swaps.

Contract does not have a swap-freeze function.

Minting

Minting new tokens post-launch can plummet the value of existing tokens.

Team cannot mint new tokens.

Blacklisting

Blacklisting can prevent wallets from swapping the tokens that they hold.

Owner can blacklist addresses; however, contract ownership has been renounced.

Tax Levels

Excessive taxation can decrease or in some cases eliminate all trader profits.

Each trade is taxed 8%.
Owner can increase taxes up to 16%; however, contract ownership has been renounced.

Summary
The team has negligible control over the contract since ownership has been renounced.

Contract Features

❖ Each transaction is taxed.

❖ A percentage of taxed tokens are distributed to holders immediately.

❖ Redistribution doesn't show up as transactions since they are internal calculations conducted by the smart contract.

❖ There are 4 team wallets, branded "marketing", "buyback", "app", and "burn" respectively.

❖ A percentage of taxed tokens are swapped to BNB and distributed between the team wallets.

❖ Team wallet addresses can be updated by the team.

❖ Taxes can be increased to up to 16% by the "owner" address; however, ownership has been renounced.

Summary
The contract functions as intended and contains no misbranded features.

Final Review

No contract issues have been identified.
No security issues have been identified.
Contract features are clear and they work as intended.
The team has negligible control over the contract since ownership has been renounced.

DesuFi

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