DEFENCERT
BLOCKCHAIN SECURITY

Vandal Shibacoin

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Smart Contract Audit Report

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The audit report has made all reasonable attempts to provide clear and articulate recommendations to the Project team with respect to the rectification, amendment, and/or revision of any highlighted issues, vulnerabilities, or exploits within the contracts provided. It is the sole responsibility of the Project team to sufficiently test and performs checks, ensuring that the contracts are functioning as intended, specifically that the functions therein contained within said contracts have the desired intended effects, functionalities, and outcomes of the Project team.

1. Overview

This report has been prepared for Vandal Shibacoin on the Binance Smart Chain network. Defencert provides a user-centered examination of the smart contracts to look for vulnerabilities, logic errors, or other issues from both an internal and external perspective.

1.1 Summary

Project Name	Vandal Shibacoin
URL	vandalshibacoin.com
Platform	Binance Smart Chain
Language	Solidity

Contracts Assessed

Name	Contract	Live Code Match
BuybackBabyToken	0xB6B31d65D048FafB2aCE439b727c29dfd86cd6f3	Yes

1.2 Findings Summary

Severity	Found
High	0
Medium	0
Low	3
Informational	1
Total	4

Severity	Description
High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency.
Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
Informational	Consistency, syntax or style best practices. Generally, pose a negligible level of risk, if any.

1.3 BuybackBabyToken

ID	Severity	Summary
01	Low	State variable visibility is not set.
02	Low	State variable visibility is not set.
03	Low	State variable visibility is not set.
04	Informational	Public state variable with array type causing reacheable exception by default.

2 Findings

2.1 BuybackBabyToken

Vandal Shiba Coin (VSC) is a BEP20 Token in Binance Smart Chain Mainnet. Token is implemented as BEP20 smart contract. This token has a 10% tax of reflection, liquidity and marketing fee.

2.1.1 Token Overview

Address	0xB6B31d65D048FafB2aCE439b727c29dfd86cd6f3
Name	Vandal Shiba Coin
Symbol	VSC
Token Supply	420,000,000
Decimal	9
Transfer Max Size	-
Transfer Min Size	-
Wallet Max Size	-
Max Buy Limit	-
Max Sell Limit	-
Transfer Fees	10%

2.1.2 Privileged Roles

The following functions can be called by the OWNER of the contract:

a) Transfer and Renounce Ownership

b) Add and Remove Authorized

The following functions can be called by the AUTHORIZER of the contract:

a) Buy Back

b) Clear Buy Back Multiplier

c) Set Auto Buy Back Settings

d) Set Buy Back Multiplier

e) Set Dividend Exempt

f) Set Fee Exempt

g) Set Buy Backer

h) Set Fees

i) Set Fee Receiver

j) Set Swap Back Settings

k) Set Target Liquidity

l) Set Distribution Criteria

m) Set Distributor Settings

2.1.3 Issues & Recommendations

Issue #01	State variable visibility is not set.
Severity	Low
Line	728
Description	It is best practice to set the visibility of state variables explicitly. The default visibility for "currentIndex" is internal. Other possible visibility settings are public and private.

Issue #02	State variable visibility is not set.
Severity	Low
Line	730
Description	It is best practice to set the visibility of state variables explicitly. The default visibility for "initialized" is internal. Other possible visibility settings are public and private.

Issue #03	State variable visibility is not set.
Severity	Low
Line	1008
Description	It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwap" is internal. Other possible visibility settings are public and private.

Issue #04	Public state variable with array type causing reacheable exception by default.
Severity	Low
Line	713
Description	The public state variable "shareholders" in "DividendDistributor" contract has type "address[]" and can cause an exception in case of use of invalid array index value.