Smart Contract Vulnerability Audit

Busd Land

April 26, 2022



Smart Contract – Audit Overview

Project Summary

Project Name	Busd Land
Platform	Binance Smart Chain
Language	Solidity
Commits	0x1422C78594b29B1B9E284E234E591beCd7DaDA6e

Audit Summary

Delivery Date	April 27, 2022
Method of Audit	Human and Al
Consultants Engaged	Two
Timeline	April 26, 2022 – April 27, 2022

Vulnerability Summary

Vulnerability Level	Total	Resolved
Critical	0	√
Major	0	√
Medium	0	√
Minor	0	✓

Smart Contract - Contract Overview

All information is recorded as of 04/26/2022.

Contract Name	BUSDLAND
Contract Address	0x1422C78594b29B1B9E284E234E591beCd7DaDA6e
Contract Creator	0xcdeb20Ad5b4b4Ce6200E033491bBBbd291aee074
Contract Ownership	Renounced Ownership
Complier Version	v0.8.9+commit.e5eed63a
Source Code	Solidity
Optimization Enabled	Yes with 200 runs
Other Settings	default evmVersion, MIT license
Verification	Verified



Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Function Default Visibility	⊘	⊘		⊘
Integer Overflow and Underflow	0	•		⊘
Outdated Compiler Version	0			⊘
Unchecked Call Return Value	0	•		●
Unprotected Ether Withdrawal	•	•		•
Unprotected SELFDESTRUCT Instruction	•	•		•
Unencrypted Private Data On-Chain	•	•		

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Reentrancy	•	⊘		•
Uninitialized Storage Pointer	0	•		⊘
Assert Violation	0			•
Use of Deprecated Solidity Functions	•	•	anc	e
Delegatecall to Untrusted Callee	•	•		•
DoS with Failed Call	•	•		•
Code With No Effects	•	•		•

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Missing Protection against Signature Replay Attacks	•	•		•
Lack of Proper Signature Verification	0	•		⊘
Requirement Violation	0			⊘
Write to Arbitrary Storage Location	9	•	anc	●
Incorrect Inheritance Order	•	•		•
Insufficient Gas Griefing	•	•		•
Arbitrary Jump with Function Type Variable	•	•		•

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
DoS With Block Gas Limit	•	⊘		⊘
Typographical Error	0	•		•
Right-To-Left-Override control character	0			•
Presence of unused variables	•	•	anc	•
Unexpected Ether balance	•	•		⊘
Hash Collisions With Multiple Variable Length Arguments	•	•		•
Message call with hardcoded gas amount	•	•		•

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Transaction Order Dependence	•	•		•
Block values as a proxy for time	0	•		⊘
Signature Malleability	0			•
Incorrect Constructor Name	0	•	anc	●
Shadowing State Variables	•	•		•
Weak Sources of Randomness from Chain Attributes	•	•		⊘

Smart Contract - Code Analysis

We did not identify any minor or significant vulnerabilities within the contract code.



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Smart Contract - Owner Functions

Function	Description
setDevAddress	Owner can set dev address
setDevFee	Owner can set dev fee
setBeansInCan	Owner can set miner
transferOwnership	Owner can transfer ownership
renounceOwnership	Owner can renounce ownership

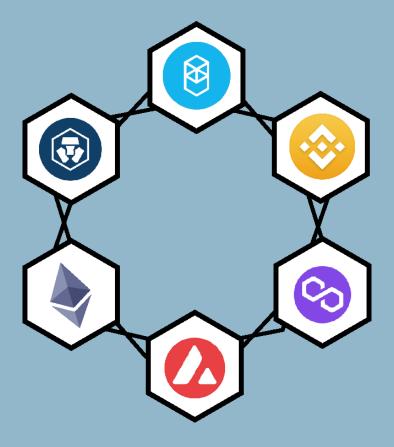
^{*}Ownership has been renounce*

Smart Contract - Contract Functions

- + [Lib] SafeMath
 - [Int] tryAdd
 - [Int] trySub
 - [Int] tryMul
 - [Int] tryDiv
 - [Int] tryMod
 - [Int] add
 - [Int] sub
 - [Int] mul
 - [Int] div
 - [Int] mod
 - [Int] sub
 - [Int] div
 - [Int] mod
- + Context
 - [Int] _msgSender
 - [Int] _msgData
- + Ownable (Context)
- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
- modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Int] _transferOwnership #
- + [Int] ERC20
 - [Ext] totalSupply
- Ext balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #- [Ext] transferFrom #
- + BUSDLAND (Context, Ownable)
- [Pub] <Constructor> #
- [Pub] hatchEggs #
- [Pub] sellEggs #
- [Pub] beanRewards
- [Pub] buyEggs #
- [Prv] calculateTrade
- [Pub] calculateEggSell
- [Pub] calculateEggBuy
- [Pub] calculateEggBuy
- [Pub] calculateEggBuySimple
- [Prv] devFee
- [Pub] seedMarket #
- [Pub] getBalance
- [Pub] getMyMiners
- [Pub] getMyEggs
- [Pub] getEggsSinceLastHatch
- [Pub] setBeansInCan #
- modifiers: onlyOwner
- [Pub] setDevFee #
- modifiers: onlyOwner
- [Pub] setDevAddress #
- modifiers: onlyOwner
- [Prv] min
- (\$) = payable function
- # = non-constant function

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