KISHIELD

Security Audit

PennyInu Token

January 28, 2022

Table of Contents

KISHIELD

Audit Summary

This report has been prepared for PennyInu Token on the Binance Smart Chain network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.

- Testing the smart contracts against both common and uncommon attack vectors.

- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.

- Assessing the codebase to ensure compliance with current best practices and industry standards.

- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.

- Thorough line-by-line manual review of the entire codebase by industry experts.

Project Overview

Token Summary

Parameter	Result
Address	0xaDfdd67E381Da607817d6865735EbC3896E7b58D
Name	PennyInu
Token Tracker	PennyInu (PENNYDOG)
Decimals	9
Supply	100,000,000,000
Platform	Binance Smart Chain
compiler	v0.8.11+commit.d7f03943
Optimization	Yes with 200 runs
LicenseType	None
Language	Solidity
Codebase	https://bscscan.com/address/0xaDfdd67E381Da607817d6865735EbC3896E7b58D#code
Url	http://www.pennyinu.com

Main Contract Assessed

Name	Contract	Live
PennyInu	0xaDfdd67E381Da607817d6865735EbC3896E7b58D	Yes

Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	✅ Low / No Risk
Code With No Effects	Complete	Complete	✅ Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	✅ Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	✅ Low / No Risk
Unexpected Ether balance	Complete	Complete	✅ Low / No Risk
Presence of unused variables	Complete	Complete	✅ Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	✅ Low / No Risk
Typographical Error	Complete	Complete	✅ Low / No Risk
DoS With Block Gas Limit	Complete	Complete	✅ Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	✅ Low / No Risk
Insufficient Gas Griefing	Complete	Complete	✅ Low / No Risk
Incorrect Inheritance Order	Complete	Complete	✅ Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	✅ Low / No Risk
Requirement Violation	Complete	Complete	✅ Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	✅ Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	✅ Low / No Risk

KISHIELD

Vulnerability	Automatic Scan	Manual Scan	Result
Authorization through tx.origin	Complete	Complete	✅ Low / No Risk
Delegatecall to Untrusted Callee	Complete	Complete	✅ Low / No Risk
Use of Deprecated Solidity Functions	Complete	Complete	✅ Low / No Risk
Assert Violation	Complete	Complete	✅ Low / No Risk
Reentrancy	Complete	Complete	✅ Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	✅ Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	✅ Low / No Risk
Unchecked Call Return Value	Complete	Complete	✅ Low / No Risk
Outdated Compiler Version	Complete	Complete	✅ Low / No Risk
Integer Overflow and Underflow	Complete	Complete	✅ Low / No Risk
Function Default Visibility	Complete	Complete	✅ Low / No Risk

Contract Ownership

The contract ownership of PennyInu is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.
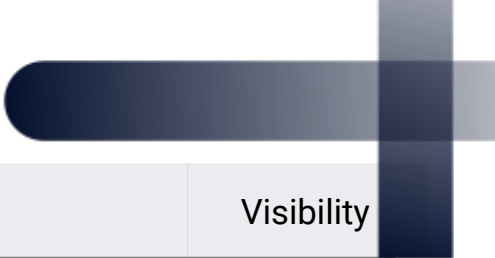
The current owner is the address 0xb4748C7d3EfAb6Ede763Eb9C9DAca636e7204830 which can be viewed from:
HERE

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

KISHIELD

Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
setDistributionCriteria	none	external
purge	none	external
setShare	none	external
deposit	none	external
process	none	external
renounceOwnership	none	public
transferOwnership	address newOwner	public
clearStuckBalance	uint256 amountPercentage	external
updateBuyFees	uint256 busdReward, uint256 marketing, uint256 liquidity, uint256 Charity	public
updateSellFees	uint256 busdReward, uint256 marketing, uint256 liquidity, uint256 Charity	public
tradingStatus	none	public
whitelistPreSale	address _preSale	public
setIsDividendExemptBusd	address holder, bool exempt	external
setIsFeeExempt	address holder, bool exempt	external

Function Name	Parameters	Visibility
setFeeReceivers	address _marketingFeeReceiver, address _devFeeReceiver, address _CharityFeeReceiver	external
setSwapBackSettings	bool _enabled, uint256 _amount	external
setDistributionCriteriaBusd	uint256 _minPeriod, uint256 _minDistribution	external
setDistributorSettings	uint256 gas	external

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Important Notes To The Users:

- 15% Total Buy: 5% Reflections, 3% Liquidity, 5% Marketing/Development, 2% Charity.

- 15% Total Sale: 5% Reflections, 3% Liquidity, 5% Marketing/Development, 2% Charity.

- The owner can change the fees realated to buy and sell

- The total sell/buy fees can not be larger than 15%

- The owner can change the Trading Status.

- The owner can send a percentage of the BNB of the contract to himself.

- The owner can modify and update the setting of the busdDividendDistributor

- The owner can include/exclude addresses from fees and dividents.

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- No high-risk Exploits Were Found in the Source Code.

Audit Passed

KISHIELD

Statistics

Liquidity Info

Parameter	Result
Pair Address	0x0e3d3ab3e447758c6C1771cc04dB1d176F702483
PENNYDOG Reserves	0.00 PENNYDOG
BNB Reserves	0.00 BNB
Liquidity Value	$0 USD

Token (PENNYDOG) Holders Info

Parameter	Result
PENNYDOG Percentage Burnt	0.00%
PENNYDOG Amount Burnt	0 PENNYDOG
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	100,000,000,000 PENNYDOG
Top 10 Aprox Value	$-- USD

LP (PENNYDOG/BNB) Holders Info

Parameter	Result
PENNYDOG/BNB % Burnt	0.00%
PENNYDOG/BNB Amount Burnt	0 PENNYDOG
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 PENNYDOG
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 PENNYDOG

* All the data diplayed above was taken on-chain at block 14772401
* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

Liquidity Ownership

The token does not have liquity at the moment of the audit, block 14772401

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Disclaimer

KISHIELD has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocation for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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