

#### **KYC & AUDIT.**

Novos is an agency specializing in blockchain technology solutions, Audits, KYC / Doxx.





# CERTIFICATE OF COMLIANCE

Smart Contract Audit by NOVOS







MIKUToken

**Audit Passed** 

July 18, 2022



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# Audit Summary

This report has been prepared for MIKU Token on the Binance Chain network. Novos 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

Parameter	Result	
Address	0x73419De8E3E26A17e0E6b0436e29dd04A25B061D	
Name	MIKU	
Token Tracker	MIKU	
Decimals	9	
Supply	1,000,000,000	
Platform	Binance Chain	
Compiler	v0.8.7+commit.e28d00a7	
Optimization	No with 200 runs	
LicenseType	Unlicense license	
Language	Solidity	
Codebase	https://bscscan.com/address/0x73419de8e3e26a17e0e6b0436e29dd04a25b0 61d#code	
Url	https://mikubsc.com/	

#### Main Contract Assessed

Name	Contract	Live
MIKU	0x73419De8E3E26A17e0E6b0436e29dd04A25B061D	Yes



### Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
<ul> <li>Unencrypted Private Data On-Chain</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Code With No Effects	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Message call with hardcoded gas amount</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
Hash Collisions With Multiple Variable Length Arguments	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Unexpected Ether balance</li> </ul>	✓ 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
Typographical Effor     DoS With Block Gas Limit	✓ Complete	✓ Complete	✓ Low/No Risk
			✓ Low/No Risk
❖ Arbitrary Jump with Function Type Variable	✓ Complete	✓ Complete	
♦ 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
<ul> <li>Weak Sources of Randomness from Chain Attributes</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk









### Smart Contract Vulnerability Checks

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









# Contract Ownership

The contract ownership of MIKU 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.

01

The current owner is the address 0x918999fa7a1Ef9fd860c35ADae08F34D8862FfC5 which can be viewed from: HERE

02

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.

03

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.



# Important Notes To The Users:

01 The owner cannot stop trading.

Owner - Setting the initial fees uint256 private
\_TotalFee = 16; uint256 public \_buyFee = 8;
uint256 public \_sellFee = 8;

02 The owner cannot blacklist wallets.

Owner can change the maxWalletBalance with no constrains.

- On sells there is an increase of tax based on the fees, this new tax cannot be higher than 20%.
- Owner can change and configure the dividendTracker with no constrains.

- Owner can enable trading but cannot pause or disable it.
- supply) «function

  set\_Max\_Wallet\_Percent(uint256

  maxWallPercent\_x100) external onlyOwner() {
   \_maxWalletToken =
   \_tTotal\*maxWallPercent\_x100/10000;

Maximum wallet holding (percent of total

05 Bool public noFeeToTransfer = true;

Owner can add/remove wallets from fee exemption and dividends.

Max transaction amount (percent of total supply) – «function set\_Max\_Transaction\_Percent (uint256 maxTxPercent\_x100) external onlyOwner() {
 \_maxTxAmount =
 \_tTotal\*maxTxPercent\_x100/100000;»

Owner can change the minimum token balance needed to get dividends. No high-riskExploits /Vulnerabilities Were Found in token Source Code.





#### Technical Findings Summary

Classification of Issues

#### **Total**

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

nonetheless.



# Findings

Public function that could be declared external



ID	Severity	Contract	Function
01	Informational	MIKU	Functions: size, getKeyAtIndex, getIndexOfKey

#### Description

Gas Optimization. Public function that could be declared external

#### Recommendation

Public functions that are never called by the contract should be declared external to save gas.



# Findings

Missing events arithmetic



ID	Severity	Contract	Function
02	Informational	MIKU	Missing events for setWalletBalance, setMaxBuyTransaction, setMaxSellTransaction, setSwapTokensAtAmount, setSellTransactionMultiplier

#### Description

Functions that change critical arithmetic parameters should emit an event.

#### Recommendation

Emit corresponding events for critical parameter changes.



### Priviliged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ renounceOwnership	■ none	<ul><li>external</li></ul>
✓ transferOwnership	address newOwner	• public
✓ prepareForPartherOrExchang eListing	<ul> <li>address_partnerOrExchangeAddress</li> </ul>	• external
✓ setWalletBalance	<ul> <li>uint256 _maxWalletBalance</li> </ul>	<ul> <li>external</li> </ul>
✓ setMaxBuyTransaction	■ uint256_maxTxn	■ external
✓ setMaxSellTransaction	■ uint256_maxTxn	<ul> <li>external</li> </ul>
✓ updateBusdDividendToken	<ul> <li>address _newContract</li> </ul>	<ul> <li>external</li> </ul>
✓ updateMarketingWallet	address_newWallet	<ul> <li>external</li> </ul>
✓ setSwapTokensAtAmount	■ uint256_swapAmount	<ul> <li>external</li> </ul>
✓ setSellTransactionMultiplier	■ uint256_multiplier	<ul> <li>external</li> </ul>
✓ setTradingIsEnabled	■ none	<ul> <li>external</li> </ul>
✓ setBusdDividendEnabled	bool_enabled	<ul> <li>external</li> </ul>
✓ setMarketingEnabled	bool_enabled	<ul> <li>external</li> </ul>
✓ setSwapAndLiquifyEnabled	bool_enabled	• external
✓ updatebusdDividendTracker	address newAddress	• external
✓ updateUniswapV2Router	address newAddress	• external



### Priviliged Functions (onlyOwner & Others)

Function Name	Parameters Parameters Parameters	Visibility
✓ excludeFromFees	<ul> <li>address account, bool excluded</li> </ul>	• public
✓ excludeFromDividend	■ address account	• public
✓ setAutomatedMarketMakerP air	<ul> <li>address pair, bool value</li> </ul>	<ul><li>external</li></ul>
✓ updateGasForProcessing	■ uint256 newValue	• external
✓ updateMinimumBalanceForDi vidends	■ uint256 newMinimumBalance	<ul><li>external</li></ul>
✓ updateClaimWait	■ uint256 claimWait	<ul><li>external</li></ul>
✓ processDividendTracker	■ uint256 gas	■ external







Parameter	Result
Pair Address	0xd8cc055028b87385b943ad598f2b1ec44fe44759
MIKU Reserves	81,574,562,854.739397533 MIKU
BNB Reserves	67.547 BNB
Liquidity Value	\$17,653.90 USD



# Statistics,

Token (HINU) Holders Info



Token Total Supply: 1,000,000,000,000.00

Token | Total Token Holders: 888



# Statistics

LP (MIKU/BNB) Holders Info



Parameter	Result
MIKU/BNB % Burnt	0.00%
MIKU/BNB Amount Burnt	0 MIKU/BNB
Top 10 Percentage Owned	27.55%
Top 10 Amount Owned	275,518,520,392.42 MIKU

- ❖ All the data diplayed above was taken on-chain at block 19573695
- ❖ The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations



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