

MUZIKoin Token

RugfreeCoins Verified on November 27th, 2023

Overview

- No mint function found, the owner cannot mint tokens after initial deployment.
- The owner can't set a max transaction limit
- ▼ The owner can't pause trading once it's enabled
- The owner can't change fees over 10%.
- The owner can't blacklist wallets.
- The owner can't set a max wallet limit
- The owner can't claim the contract's balance of its own token.

HIGH SEVERITY ISSUES

In the swap, the marketing wallet receives BNB. If the owner changes the marketing wallet and it is unable to receive BNB, the swap will fail, and sales will also be halted.

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Audit details



Audited project

MuziKoin Token



Contract Address

0xCe379bAD99f287E1eacB1bF80F3670011D2B2981



Client contact

MuziKoin Token Team



Blockchain

Binance Smart chain



Project website

www.muzikoin.com

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

RugfreeCoins was commissioned by the MuziKoin Token Team to perform an audit of the smart contract.

https://bscscan.com/token/0xce379bad99f287e1eacb1bf80f3670011d2b2981

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Tokenomics

▲ 1% tax when buying

1% of trade goes to the marketing wallet in BNB

▲ 2% tax when selling

2% of trade goes to the marketing wallet in BNB

Target market and the concept

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part in the MuziKoin token ecosystem.
- Anyone who's interested in taking part in the future plans of MuziKoin Token.
- Anyone who's interested in making financial transactions with any other party using MuziKoin Token as the currency.

Potential to grow with score points

→ Project efficiency	8 / 10
* Project uniqueness	7 / 10
Information quality	8 / 10
Service quality	8 / 10
System quality	8 / 10
Mark on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
☐ Smart contract security	9 / 10
Smart contract functionality assessment	9 / 10
Total Score	8.2 / 10

Contract details

Token contract details for 27th of November 2023

Contract name	MuziKoin
Contract address	0xCe379bAD99f287E1eacB1bF80F3670011D2B2981
Token supply	900,000,000
Token ticker	MZK
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0xf5732b73Ee5A73B08AD6a4F5bA7E15D800dC6afe
Contract's current owner address	0x8781d5534F657e8b2f5Ab858fFFC749ef2c15471
Marketing wallet	0x7FDE78dA656E68B6fBB3593B0683fa71a43D0854
CX wallet	0x8781d5534F657e8b2f5Ab858fFFC749ef2c15471

Contract code function details

Nº	Category	Item	Result
		ERC20 Token standards	PASS +
		Compile errors	PASS -
		Compiler version security	PASS +
		Visibility specifiers	PASS -
		Gas consumption	PASS -
1	Coding conventions	SafeMath features	PASS +
		Fallback usage	PASS -
		tx.origin usage	PASS +
		Deprecated items	PASS -
		Redundant code	PASS -
		Overriding variables	PASS +
		Authorization of function call	PASS +
2	Function call audit	Low level function (call/delegate call) security	PASS +
_		Returned value security	PASS +
		Self destruct function security	PASS +
		Access control of owners	HIGH •
3	Business security & centralisation	Business logics	PASS +
		Business implementation	PASS -
4	Integer overflow/underflow		PASS +
5	Reentrancy		PASS +
6	Exceptional reachable state		PASS +
7	Transaction ordering dependence		PASS +
8	Block properties dependence		PASS +
9	Pseudo random number generator (PRI	NG)	PASS +
10	DoS (Denial of Service)		PASS +
11	Token vesting implementation		PASS +
12	Fake deposit		PASS +
13	Event security		PASS -

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		
·		·		
IERC20	Interface			
L	totalSupply	External		NO !
L	balanceOf	External		NO !
L	transfer	External	•	NO !
L	allowance	External		NO !
L	approve	External	•	NO !
L	transferFrom	External	•	NO !
'		·		
Address	Library			
L	isContract	Internal 🔒		
L	sendValue	Internal 🔒	•	
L	functionCall	Internal 🔒	•	
L	functionCall	Internal 🔒		
L	functionCallWithValue	Internal 🔒		
L	functionCallWithValue	Internal 🔒		
L	functionStaticCall	Internal 🔒		
L	functionStaticCall	Internal 🔒		

L	functionDelegateCall	Internal 🔒	
L	functionDelegateCall	Internal 🔒	
L	verifyCallResultFromTarget	Internal 🔒	
L	verifyCallResult	Internal 🔒	
L	_revert	Private 🔐	
·			
Ownable	Implementation	Context	
L		Public !	NO !
L	owner	Public !	NO !
L	_checkOwner	Internal 🔒	
L	renounceOwnership	Public !	onlyOwner
L	transferOwnership	Public !	onlyOwner
L	_transferOwnership	Internal 🔒	
'			'
IUniswapV2 Factory	Interface		
L	feeTo	External	NO !
L	feeToSetter	External	NO !
L	getPair	External	NO !
L	allPairs	External !	NO !
L	allPairsLength	External	NO !
L	createPair	External	NO !
L	setFeeTo	External	NO !
L	setFeeToSetter	External	NO !
·			
JniswapV2Pair	Interface		
L	name	External !	NO !
L	symbol	External !	NO !
L	decimals	External	NO !

L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !
L	DOMAIN_SEPARATOR	External !		NO !
L	PERMIT_TYPEHASH	External !		NO !
L	nonces	External !		NO !
L	permit	External !		NO !
L	MINIMUM_LIQUIDITY	External !		NO !
L	factory	External !		NO !
L	token0	External !		NO !
L	token1	External !		NO !
L	getReserves	External !		NO !
L	price0CumulativeLast	External !		NO !
L	price1CumulativeLast	External !		NO !
L	kLast	External !		NO !
L	burn	External !		NO !
L	swap	External !	•	NO !
L	skim	External !	•	NO !
L	sync	External !		NO !
L	initialize	External !		NO !
IUniswapV2 Router01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !		NO !
L	addLiquidityETH	External !	(\$ <mark>.</mark>)	NO !
L	removeLiquidity	External		NO !

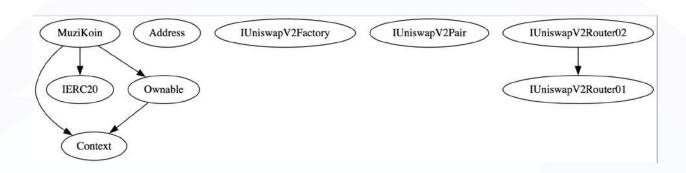
				_
L	removeLiquidityETH	External		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External !		NO !
L	swapExactETHForTokens	External !	(\$	NO !
L	swapTokensForExactETH	External !		NO !
L	swapExactTokensForETH	External !		NO !
L	swapETHForExactTokens	External !	(\$)	NO !
L	quote	External		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External		NO !
L	getAmountsOut	External		NO !
L	getAmountsIn	External !		NO !
				,
IUniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTran sferTokens	External !	•	NO !
L	removeLiquidityETHWithPermitSupporting FeeOnTransferTokens	External !	•	NO !
L	swapExactTokensForTokensSupportingFe eOnTransferTokens	External !	•	NO !
L	swapExactETHForTokensSupportingFeeOn TransferTokens	External !	S	NO !
L	swapExactTokensForETHSupportingFeeOn TransferTokens	External !	•	NO !
MuziKoin	Implementation	Context,		
WIUZIRVIII	impiementadon	IERC20, Ownable		
L		Public !		NO !
L	totalSupply	Public !		NO !

L	transfer	Public !	NO !
L	allowance	Public !	NO !
L	approve	Public !	NO !
L	transferFrom	Public !	NO !
L	increaseAllowance	Public !	NO !
L	decreaseAllowance	Public !	NO !
L	_approve	Private 🔐	
L	_transfer	Private 🔐	
L	swapAndLiquify	Public !	lockTheSwap
L	swapTokensForEth	Private 🔐	
L	_tokenTransfer	Private 🔐	
L	isExcludedFromFees	External	NO !
L	setExcludeFromFees	External	onlyOwner
L	setTokensToSwap	External	onlyOwner
L	setSwapAndLiquifyEnabled	External	onlyOwner
L	setMarketingWallet	External	onlyOwner
L	setBuyFee	External	onlyOwner
L	setSellFee	External	onlyOwner
L	transferToAddressETH	Private 🔐	
L		External	NO !
L	swapETHForTokens	Private 🔐	
L	recoverETHfromContract	External	onlyOwner
L	recoverTokensFromContract	External	onlyOwner

Legend

Symbol	Meaning
	Function can modify state
(\$	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

In the swap, the marketing wallet receives BNB. If the owner changes the marketing wallet and it is unable to receive BNB, the swap will fail, and sales will also be halted.

Medium severity issues

No medium severity issues found

Low severity issues

No low-severity issues found

Owner privileges

❖ The owner can include/exclude wallets from fees

```
function setExcludeFromFees(address account, bool status) external onlyOwner {
    require(_isExcludedFromFees[account] != status, "The wallet is already have
that status.");
    _isExcludedFromFees[account] = status;
    emit ExcludeStatus(account, status);
}
```

The owner can change the swap point

The owner can enable/disable swapping

```
function setSwapAndLiquifyEnabled(bool _enabled) external onlyOwner {
    require(swapAndLiquifyEnabled != _enabled, "Value already set");
    swapAndLiquifyEnabled = _enabled;
    emit SwapAndLiquifyEnabledUpdated(_enabled);
}
```

The owner can change the marketing wallet address

```
function setMarketingWallet(address _marketingWallet) external onlyOwner {
    require(_marketingWallet != address(0), "setMarketingWallet: ZERO");
    marketingWallet = payable(_marketingWallet);
    emit UpdateMarketingWallet(marketingWallet,true);
}
```

Owner can change buy and sell fees, each fee maximum of up to 5%

```
//set a new Buy Fee %.
function setBuyFee(uint256 _buyFee) external onlyOwner {
    require(_buyFee <= 5, "Buy Fee cannot be more than 5%");
    buyFee = _buyFee;
    emit UpdateBuyFee(buyFee);
}
//set a new Sell Fee %
function setSellFee(uint256 _sellFee) external onlyOwner {
    require(_sellFee <= 5, "Sell Fee cannot be more than 5%");
    sellFee = _sellFee;
    emit UpdateSellFee(sellFee);
}</pre>
```

The owner can get BNB from the contract

```
function recoverETHfromContract() external onlyOwner {
    uint ethBalance = address(this).balance;
    (bool succ, ) = payable(marketingWallet).call{value: ethBalance}("");
    require(succ, "Transfer failed");
    emit recoveredETH(ethBalance);
}
```

The owner can get any BEP20 tokens from the contract (can not get native tokens)

```
function recoverTokensFromContract(
    address _tokenAddress,
    uint256 _amount
) external onlyOwner {
    require(
        _tokenAddress != address(this),
        "Owner can't claim contract's balance of its own tokens"
);
    bool succ = IERC20(_tokenAddress).transfer(marketingWallet, _amount);
    require(succ, "Transfer failed");
    emit recoveredTokens(_amount);
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

