



Audit Report

ROBOFLOKI

January 2022

Type	BEP20
Network	BSC
Address	0x289bf7F7f4D474318F86d2213F51c32360d79fbe
Audited by	© coinscope

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Contract Review

Contract Name	CoinToken
Compiler Version	v0.8.10+commit.fc410830
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x289bf7F7f4D474318F86d2213F51c32360d79fbe
Symbol	RFLOKI
Decimals	18
Total Supply	99,999,999,999
Source	contract.sol
Domain	roboflokibsc.net

Audit Updates

Initial Audit	25th January 2022
Corrected	

Contract Analysis

● Critical
 ● Medium
 ● Minor
 ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	critical
Location	https://bscscan.com/address/0x289bf7f7f4d474318f86d2213f51c32360d79fbe#contracts#L611

Description

The contract owner has the authority to stop transactions by calling the `pause` function.

```
function _pause() internal virtual whenNotPaused {  
    _paused = true;  
    emit Paused(_msgSender());  
}
```

Recommendation

The contract could embody a check for not allowing setting the `_maxTxAmount` less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

ELFM - Exceed Limit Fees Manipulation

Criticality	critical
Location	https://bscscan.com/address/0x289bf7f7f4d474318f86d2213f51c32360d79fbe#contracts#L1092

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the `setSellTax` function with a high percentage value and it will behave like a honeypot.

```
function setSellTax(uint256 dev, uint256 marketing, uint256 liquidity,
uint256 charity) public onlyOwner {

    sellTaxes["dev"] = dev;
    sellTaxes["marketing"] = marketing;
    sellTaxes["liquidity"] = liquidity;
    sellTaxes["charity"] = charity;
}
```

Recommendation

The contract could embody a check for the maximum acceptable value.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

BC - Blacklisted Contracts

Criticality	medium
Location	https://bscscan.com/address/0x289bf7f7f4d474318f86d2213f51c32360d79fbe#contracts#L1128

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the `enableBlacklist` function.

```
function enableBlacklist(address account) public onlyOwner {  
    require(!blacklist[account], "CoinToken: Account is already  
blacklisted");  
    blacklist[account] = true;  
}
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L05	Unused State Variable
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality

minor

Location

contract.sol#L1116,L1108,L1070 and 19 more

Description

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

```
disableTax  
enableTax  
removeExclude  
...
```

Recommendation

Use the external attribute for functions never called from the contract.

L02 - State Variables could be Declared Constant

Criticality

minor

Location

contract.sol#L833,L846,L841 and 11 more

Description

Constant state variables should be declared constant to save gas.

```
swapThreshold  
marketingTaxWallet  
marketingTaxSell  
...
```

Recommendation

Add the constant attribute to state variables that never change.

L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L848,L847,L846 and 9 more

Description

There are segments that contains unused state variable.

```
charityTaxWallet  
liquidityTaxWallet  
marketingTaxWallet  
...
```

Recommendation

Remove unused state variables.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L692,L656,L639 and 1 more

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
WETH  
MINIMUM_LIQUIDITY  
PERMIT_TYPEHASH  
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

L09 - Dead Code Elimination

Criticality

minor

Location

contract.sol#L121

Description

Functions that are not used in the contract, and make the code's size bigger.

`_msgData`

Recommendation

Remove unused functions.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
ERC20	Implementation	Context, IERC20, IERC20Metadata		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-

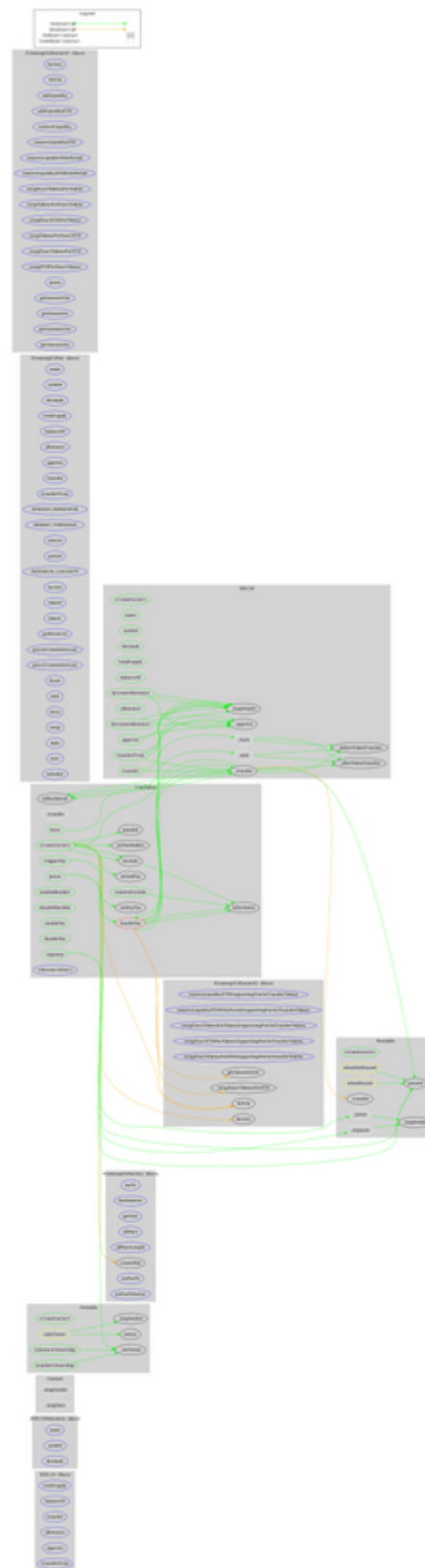
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Internal	✓	
Pausable	Implementation	Context		
	<Constructor>	Public	✓	-
	paused	Public		-
	_pause	Internal	✓	whenNotPaused
	_unpause	Internal	✓	whenPaused
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-

	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-

	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
CoinToken	Implementation	ERC20, Ownable, Pausable		
	<Constructor>	Public	Payable	ERC20
	handleTax	Private	✓	
	_transfer	Internal	✓	
	triggerTax	Public	✓	onlyOwner
	pause	Public	✓	onlyOwner
	unpause	Public	✓	onlyOwner

	burn	Public	✓	onlyOwner
	enableBlacklist	Public	✓	onlyOwner
	disableBlacklist	Public	✓	onlyOwner
	exclude	Public	✓	onlyOwner
	removeExclude	Public	✓	onlyOwner
	setBuyTax	Public	✓	onlyOwner
	setSellTax	Public	✓	onlyOwner
	setTaxWallets	Public	✓	onlyOwner
	enableTax	Public	✓	onlyOwner
	disableTax	Public	✓	onlyOwner
	isBlacklisted	Public		-
	isExcluded	Public		-
	<Receive Ether>	External	Payable	-

Contract Flow



Domain Info

Domain Name	roboflokibsc.net
Registry Domain ID	2670274838_DOMAIN_NET-VRSN
Creation Date	2022-01-23T12:02:03Z
Updated Date	2022-01-23T12:02:04Z
Registry Expiry Date	
Registrar WHOIS Server	whois.reg2c.com
Registrar URL	http://www.reg2c.com
Registrar	Reg2C.com Inc.
Registrar IANA ID	819

The domain has been created 2 days before the creation of the audit.

There is no public billing information, the creator is protected by the privacy settings.

Summary

ROBOFLOKI is an interesting project with a friendly and growing community. The Smart Contract analysis reported no compiler error, 1 critical and 2 medium threat issues. There are some functions that can be abused by the owner, like manipulating fees up to 100% without a limitation, blacklisting wallets from selling, and stopping transactions. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

Disclaimer

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The CoinScope team disclaims any liability for the resulting losses.

About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>