Cyberscope

Audit Report

CreedDao

April 2022

Type	BEP20
Network	BSC
Address	0xeC47fB102aEadCe873EDd42740CFf14Ea67E63f8
Audited by	© cyberscope

Table of Contents

Contract Review

Contract Name	CreedDao
Compiler Version	v0.8.10+commit.fc410830
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xeC47fB102aEadCe873EDd42740CFf14Ea67E63f8
Symbol	Creed
Decimals	18
Total Supply	1,000,000,000
Domain	creeddao.io

Source Files

Filename	SHA256
contract.sol	c6a8c36c967140043e78f1cb675680d2c1a7ebf27076a3e65668f3b5c852471e

Audit Updates

Initial Audit	17th April 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

Contract Diagnostics

● Critical   ● Medium   ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic
●	L09	Dead Code Elimination
●	L13	Divide before Multiply Operation

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L82,90,114,133,141,152,170,192,211,355,359

Description

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

```
transferOwnership
renounceOwnership
decreaseAllowance
increaseAllowance
transferFrom
approve
allowance
transfer
totalSupply
...
```

Recommendation

Use the external attribute for functions never called from the contract

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L56,58,377,504,575,608

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.

```
_address
new_amount
handle_fees
WETH
_allowances
_balances
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L575,580,586

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
totalSellTax = lp + marketing + treasury + staking
totalBuyTax = lp + marketing + treasury + staking
tokenLiquidityThreshold = new_amount * 10 ** 18
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L303,277

Description

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

```
_burn
_approve
```

Recommendation

Remove unused functions.

L13 - Divide before Multiply Operation

Criticality	minor
Location	contract.sol#L504

Description

Performing divisions before multiplications may cause lose of prediction.

```
unitBalance = deltaBalance / (denominator - sellTaxes.lp)
```

Recommendation

The multiplications should be prior to the divisions.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
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	✓	
Address	Library			
	sendValue	Internal	✓	
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
IFactory	Interface			
	createPair	External	✓	-
IRouter	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
CreedDao	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20
	_approve	Internal	✓	antiSnipe
	_transfer	Internal	✓	

handle_fees	Private	✓	mutexLock
swapTokensForBNB	Private	✓	
addLiquidity	Private	✓	
updateLiquidityProvide	External	✓	onlyOwner
updateLiquidityTreshhold	External	✓	onlyOwner
updateBuyTaxes	External	✓	onlyOwner
updateSellTaxes	External	✓	onlyOwner
updateMarketingWallet	External	✓	onlyOwner
updateTreasuryWallet	External	✓	onlyOwner
updateStakingWallet	External	✓	onlyOwner
updateLPRecipientWallet	External	✓	onlyOwner
updateExemptFee	External	✓	onlyOwner
fillLiquidity	External	✓	onlyOwner
rescueBNB	External	✓	onlyOwner
rescueTokens	External	✓	onlyOwner
<Receive Ether>	External	Payable	-

Contract Flow

Domain Info

Domain Name	creeddao.io
Registry Domain ID	b141506b7199498bb3cbe0014048c55d-DONUTS
Creation Date	2022-04-06T11:46:29Z
Updated Date	2022-04-11T19:12:39Z
Registry Expiry Date	2023-04-06T11:46:29Z
Registrar WHOIS Server	key-systems.net
Registrar URL	http://key-systems.net
Registrar	Key-Systems GmbH
Registrar IANA ID	269

The domain has been created 11 days before the creation of the audit. It will expire in 12 months.

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

Summary

Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max fees 10% in buys and 15% in sales.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Cyberscope team disclaims any liability for the resulting losses.

About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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.

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

The Cyberscope team

https://www.cyberscope.io