



# Audit Report

# **CryptoSkates Token**

January 2022

Type	BEP20
Network	BSC
Address	0x368eb5efdca39126e8e76aae5187166de7c2766c
Audited by	© coinscope

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# Contract Review

<b>Contract Name</b>	CryptoSkatesToken
<b>Compiler Version</b>	v0.8.7+commit.e28d00a7
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0x368eb5efdca39126e8e76aae5187166de7c2766c">https://bscscan.com/token/0x368eb5efdca39126e8e76aae5187166de7c2766c</a>
<b>Symbol</b>	CST
<b>Decimals</b>	18
<b>Total Supply</b>	100,000,000
<b>Source</b>	contract.sol
<b>Domain</b>	cryptoskates.me

## Audit Updates

<b>Initial Audit</b>	5th January 2022
<b>Corrected</b>	

# 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
●	L09	Dead Code Elimination

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

contract.sol#L1473,L1468,L1437 and 15 more

### Description

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

```
unpause  
pause  
getRoleMemberCount  
...
```

### Recommendation

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

## L09 - Dead Code Elimination

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L737,L762,L1390 and 16 more

### Description

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

```
toString  
toHexString  
values  
...
```

### Recommendation

Remove unused functions.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>ERC20</b>	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	✓	
<b>ERC20Burnable</b>	Implementation	Context, ERC20		
	burn	Public	✓	-
	burnFrom	Public	✓	-
<b>Pausable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	paused	Public		-
	_pause	Internal	✓	whenNotPaused
	_unpause	Internal	✓	whenPaused
<b>ERC20Pausable</b>	Implementation	ERC20, Pausable		
	_beforeTokenTransfer	Internal	✓	
<b>IAccessControl</b>	Interface			
	hasRole	External		-
	getRoleAdmin	External		-
	grantRole	External	✓	-
	revokeRole	External	✓	-
	renounceRole	External	✓	-

<b>IAccessControl</b>	Interface	IAccessControl		
<b>IEnumerable</b>	getRoleMember	External		-
	getRoleMemberCount	External		-
<b>Strings</b>	Library			
	toString	Internal		
	toHexString	Internal		
	toHexString	Internal		
<b>IERC165</b>	Interface			
	supportsInterface	External		-
<b>ERC165</b>	Implementation	IERC165		
	supportsInterface	Public		-
<b>AccessControl</b>	Implementation	Context, IAccessControl, ERC165		
	supportsInterface	Public		-
	hasRole	Public		-
	_checkRole	Internal		
	getRoleAdmin	Public		-
	grantRole	Public	✓	onlyRole
	revokeRole	Public	✓	onlyRole
	renounceRole	Public	✓	-
	_setupRole	Internal	✓	
	_setRoleAdmin	Internal	✓	
	_grantRole	Internal	✓	
	_revokeRole	Internal	✓	
<b>EnumerableSet</b>	Library			
	_add	Private	✓	
	_remove	Private	✓	
	_contains	Private		

	_length	Private		
	_at	Private		
	_values	Private		
	add	Internal	✓	
	remove	Internal	✓	
	contains	Internal		
	length	Internal		
	at	Internal		
	values	Internal		
	add	Internal	✓	
	remove	Internal	✓	
	contains	Internal		
	length	Internal		
	at	Internal		
	values	Internal		
	add	Internal	✓	
	remove	Internal	✓	
	contains	Internal		
	length	Internal		
	at	Internal		
	values	Internal		
<b>AccessControl Enumerable</b>	Implementation	IAccessControlEnumerable, AccessControl		
	supportsInterface	Public		-
	getRoleMember	Public		-
	getRoleMemberCount	Public		-
	_grantRole	Internal	✓	
	_revokeRole	Internal	✓	

CryptoSkatesToken	Implementation	Context, AccessControlEnumerable, ERC20Burnable, ERC20Pausable		
	<Constructor>	Public	✓	ERC20
	pause	Public	✓	-
	unpause	Public	✓	-
	_beforeTokenTransfer	Internal	✓	

# Contract Flow



## Domain Info

<b>Domain Name</b>	cryptoskates.me
<b>Registry Domain ID</b>	D425500000338157994-AGRS
<b>Creation Date</b>	2021-11-06T13:55:03Z
<b>Updated Date</b>	2021-11-27T20:48:25Z
<b>Registry Expiry Date</b>	2022-11-06T13:55:03Z
<b>Registrar WHOIS Server</b>	whois.registrar.eu
<b>Registrar URL</b>	www.openprovider.com
<b>Registrar</b>	Hosting Concepts B.V. d/b/a Openprovider Registrar
<b>Registrar IANA ID</b>	1647

The domain has been created 2 months before the creation of the audit. It will expire in 10 months.

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

# Summary

CryptoSkates Token is a play-to-earn game. Users will be able to collect tradable NFTs of skater figures according to the website of the project. The token has a friendly and growing community. The smart contract analysis reported no compiler errors or critical threats. In fact there are only a few functions that can be used by the owner and they cannot be used in a malicious way.

# Disclaimer

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## 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>