



Cyberscope

## Audit Report

# EmirateSwap Coin

June 2022

Type      BEP20

Network    BSC

Address    0x48a9fdac66ad79483244957c37c0c37d3cb87f40

Audited by   © cyberscope

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## Contract Review

<b>Contract Name</b>	EMIRATESWAPCOIN
<b>Compiler Version</b>	v0.7.6+commit.7338295f
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0x48a9fDAc66AD79483244957C37C0c37d3CB87f40">https://bscscan.com/token/0x48a9fDAc66AD79483244957C37C0c37d3CB87f40</a>
<b>Symbol</b>	EMC
<b>Decimals</b>	18
<b>Total Supply</b>	750,000,000
<b>Domain</b>	emirateswap.com

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	e7f18b9ec4328e8158b9a6d6475adcde0e188678f82bd bea1c4df3efb81ab5ea

## Audit Updates

<b>Initial Audit</b>	7th June 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
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination
●	L11	Unnecessary Boolean equality

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L369,377,401,420,439,457,475,494,629,644,663,694,698,720,724,728,745,750,755

### Description

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

```
endCrowdsale  
pauseCrowdsale  
startCrowdsale  
endAirDrop  
stopAirDrop  
startAirDrop  
disablePurchaseCounter  
enablePurchaseCounter  
transferOwnership  
...
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contract.sol#L674,676,737,675,736

### Description

Constant state variables should be declared constant to save gas.

```
RATE  
PRESALE_TOKEN  
MAX_PURCHASE  
AIRDROP_TOKEN  
ADMIN_TOKEN
```

### Recommendation

Add the constant attribute to state variables that never change.



## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

contract.sol#L655,663,674,675,676,735,736,737

### 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.

```
MAX_PURCHASE
RATE
PRESALE_TOKEN_SOLD
AIRDROP_TOKEN
PRESALE_TOKEN
ADMIN_TOKEN
_newOwner
onOwnershipTransferred
```

### 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#L592

### Description

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

```
_setupDecimals
```

### Recommendation

Remove unused functions.

## L11 - Unnecessary Boolean equality

**Criticality**

minor

**Location**

contract.sol#L707

### Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
require(bool,string)(airdropReceivedList[msg.sender] == false,You already  
received airdrop)
```

### Recommendation

Remove the equality to the boolean constant.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>SafeMath</b>	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>ERC20</b>	Implementation	Context, IERC20		

	<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	✓	
	_setupDecimals	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
<b>ERC20Burnable</b>	Implementation	Context, ERC20		
	burn	Public	✓	-
	burnFrom	Public	✓	-
<b>Ownable</b>	Implementation			
	<Constructor>	Public	✓	-
	transferOwnership	Public	✓	onlyOwner
<b>EMIRATESWAP COIN</b>	Implementation	ERC20Burnable, Ownable		
	<Constructor>	Public	✓	ERC20
	<Receive Ether>	External	Payable	-
	enablePurchaseCounter	Public	✓	onlyOwner
	disablePurchaseCounter	Public	✓	onlyOwner
	airdrop	Public	Payable	-

	startAirDrop	Public	✓	onlyOwner
	stopAirDrop	Public	✓	onlyOwner
	endAirDrop	Public	✓	onlyOwner
	startCrowdsale	Public	✓	onlyOwner
	pauseCrowdsale	Public	✓	onlyOwner
	endCrowdsale	Public	✓	onlyOwner
	buyToken	Public	Payable	-

# Contract Flow



## Domain Info

<b>Domain Name</b>	emirateswap.com
<b>Registry Domain ID</b>	2670945043_DOMAIN_COM-VRSN
<b>Creation Date</b>	2022-01-26T00:29:00.00Z
<b>Updated Date</b>	0001-01-01T00:00:00.00Z
<b>Registry Expiry Date</b>	2023-01-26T00:29:00.00Z
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	<a href="http://www.namecheap.com">http://www.namecheap.com</a>
<b>Registrar</b>	NAMECHEAP INC
<b>Registrar IANA ID</b>	1068

The domain has been created 4 months before the creation of the audit. It will expire in 8 months.

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



## Summary

EmirateSwap 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. The contract implements an airdrop and an IDO feature . These features can be enabled and disabled by the contract owner. If the airdrop feature is enabled, the users can send zero BNB to the contract in order to receive 500 EMC. If the IDO feature is enabled, the users receives tokens proportional to the deposited BNB amount.

# 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.

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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 provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>