Cyberscope

Audit Report

NEON CITY

March 2022

Type	BEP20
Network	BSC
Address	0xd2057672777f3e3f4d185a82fe3fa9a959e42502
Audited by	© cyberscope

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Contract Review

Contract Name	Mycoin
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xd2057672777f3e3f4d185a82fe3fa9a959e42502
Symbol	NCY
Decimals	18
Total Supply	1,000,000,000
Domain	

Source Files

Filename	**SHA256**
contract.sol	f3ba6c5acf2db3a2501f4526f0dcb173ebbd5b3dca9ab208a068f78717d74428

Audit Updates

Initial Audit	24th March 2022
Corrected	29th March 2022

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
	FSA	Fixed Swap Address
	L01	Public Function could be Declared External
	L04	Conformance to Solidity Naming Conventions
	L07	Missing Events Arithmetic
	L09	Dead Code Elimination

FSA - Fixed Swap Address

Criticality	minor
Location	contract.sol#L575

Description

The swap address is assigned once in the constructor and it can not be changed. The decentralized swaps sometimes create a new swap version or abandon the current. A contract that cannot change the swap address may not be able to catch-up the upgrade.

```
IPancakeswapV2Router02 _pancakeswapV2Router =
IPancakeswapV2Router02(0x10ED43C718714eb63d5aA57B78B54704E256024E);

pancakeswapV2Router = _pancakeswapV2Router;
pancakeswapV2Pair = IPancakeswapV2Factory(_pancakeswapV2Router.factory())
    .createPair(address(this), _pancakeswapV2Router.WETH());
```

Recommendation

It could be better to allow the swap address mutation in case of future swap updates.

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L195,203,295,303,320,327,334,346,354,365 and 3 more

Description

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

```
decreaseAllowance
increaseAllowance
transferFrom
approve
allowance
transfer
balanceOf
totalSupply
decimals
...
```

Recommendation

Use the external attribute for functions never called from the contract

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L230,273,546,547,549,551,554,557

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.

```
_devFee
_marketFee
_liquidityFee
total
devAddress
marketAddress
_balances
WETH
```

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#L602

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.

```
_liquidityFee = liquidityFee
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L501,454

Description

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

```
_transfer
_burn
```

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		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
IPancakeswapV2Factory	Interface			
	createPair	External	✓	-

IPancakeswapV2Router02	Interface			
	factory	External		-
	WETH	External		-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	addLiquidityETH	External	Payable	-
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	✓	
Mycoin	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20
	excludeFromFee	External	✓	onlyOwner
	includeInFee	External	✓	onlyOwner
	setFees	External	✓	onlyOwner
	_getFeeValues	Private		
	removeAllFee	Private	✓	

	restoreAllFee	Private	✓	
	isExcludedFromFee	External		-
	<Receive Ether>	External	Payable	-
	_transfer	Internal	✓	
	_tokenTransfer	Private	✓	
	_takeLiquidity	Private	✓	
	_takeMarket	Private	✓	
	_takeDevFee	Private	✓	

Contract Flow

Domain Info

Domain Name	neoncity.games
Registry Domain ID	39f2e3262ae346f393ed4063d878b958-DONUTS
Creation Date	2022-02-09T04:36:32Z
Updated Date	2022-03-23T03:49:51Z
Registry Expiry Date	2023-02-09T04:36:32Z
Registrar WHOIS Server	whois.dynadot.com
Registrar URL	http://dynadot.com
Registrar	Dynadot, LLC
Registrar IANA ID	472

The domain has been created about 1 month before the creation of the audit. It will expire in 11 months.

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

Summary

The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users’ transactions. The fees can be set up to 20%.

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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