Cyberscope

Audit Report

Lion

June 2022

Table of Contents

Contract Review

Contract Name	lion
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0xFef7C9De09A033bbe39B2fD24c8E98E54b3f0526
Symbol	lion
Decimals	8
Total Supply	10,000,000,000,000
Domain	lion-token.lol

Source Files

Filename	SHA256
contract.sol	fa95988139c49f7d772845320b8f9339463cedc3fbea1faa734a22148a8b3035

Audit Updates

Initial Audit	9th June 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
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L143,342,346,350,354,362,366,371,376,380,393,396,403,410,415,520,523

Description

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

```
WithdrawcharityBNB
rescuecharityToken
transferFrom
transfer
setIsExcludedFromFee
getCirculatingSupply
setMarketPairStatus
approve
minimumTokensBeforeSwapAmount
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L277,278,268,266,280,281,267,270,271

Description

Constant state variables should be declared constant to save gas.

```
marketingWalletAddress2
marketingWalletAddress1
_symbol
_sellMarketingFee
_sellLiquidityFee
_name
_decimals
_buyMarketingFee
_buyLiquidityFee
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L168,261,523,272,283,284,287,288,289

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.

```
_totalDistributionShares
_totalTaxIfSelling
_totalTaxIfBuying
_marketingShare
_liquidityShare
_balances
WithdrawcharityBNB
lion
WETH
```

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#L104,112

Description

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

```
sendValue
isContract
```

Recommendation

Remove unused functions.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IWETH	Interface			
	deposit	External	Payable	-
	transfer	External	✓	-
	withdraw	External	✓	-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
	isContract	Internal		

	sendValue	Internal	✓	
Ownable	Implementation			
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
IUniswapV2Factory	Interface			
	getPair	External		-
	allPairs	External		-
	createPair	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	-
	swapExactTokensForETH	External	✓	-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
lion	Implementation	Context, IERC20, Ownable		

<Constructor>	Public	✓	-
name	Public		-
symbol	Public		-
decimals	Public		-
totalSupply	Public		-
balanceOf	Public		-
allowance	Public		-
increaseAllowance	Public	✓	-
decreaseAllowance	Public	✓	-
minimumTokensBeforeSwapAmount	Public		-
approve	Public	✓	-
_approve	Private	✓	
setMarketPairStatus	Public	✓	onlyOwner
getCirculatingSupply	Public		-
transferToAddressETH	Private	✓	
setIsExcludedFromFee	Public	✓	onlyOwner
<Receive Ether>	External	Payable	-
transfer	Public	✓	-
transferFrom	Public	✓	-
_transfer	Private	✓	
_basicTransfer	Internal	✓	
swapAndLiquify	Private	✓	lockTheSwap
swapTokensForEth	Private	✓	
addLiquidity	Private	✓	
takeFee	Internal	✓	
rescuecharityToken	Public	✓	-
WithdrawcharityBNB	Public	✓	-

Contract Flow

Domain Info

Domain Name	lion-token.lol
Registry Domain ID	DO_fc351ebdd73c9967c6d17e2cdab84f79-UR
Creation Date	2022-06-09T04:40:23Z
Updated Date	2022-06-09T04:42:04Z
Registry Expiry Date	2023-06-09T04:40:23Z
Registrar WHOIS Server	whois.dynadot.com
Registrar URL	www.dynadot.com
Registrar	Dynadot, LLC
Registrar IANA ID	472

The domain has been created about 15 hours 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

Lion 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. The fees are fixed to 3%.

Summary

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

The Cyberscope team

https://www.cyberscope.io