

Audit Report

Robotcat

April 2022

Type BEP20

Network BSC

Address 0x09cA04e09d3232F542B49CBEA4905635BCec89c0

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Table of Contents

Table of Contents	
Contract Review	3
Source Files	3
Audit Updates	3
Contract Analysis	4
OCTD - Owner Contract Tokens Drain	5
Description	5
Recommendation	5
Contract Diagnostics	6
L01 - Public Function could be Declared External	7
Description	7
Recommendation	7
L02 - State Variables could be Declared Constant	8
Description	8
Recommendation	8
L04 - Conformance to Solidity Naming Conventions	9
Description	9
Recommendation	9
L05 - Unused State Variable	10
Description	10
Recommendation	10
Contract Functions	11
Contract Flow	14
Domain Info	15
Summary	16
Disclaimer	17

2

About Cyberscope

18



Contract Review

Contract Name	RobotCat
Compiler Version	v0.8.9+commit.e5eed63a
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x09cA04e09d3232F542B 49CBEA4905635BCec89c0
Symbol	RobotCat
Decimals	9
Total Supply	1,000,000,000
Domain	robotcat.store

Source Files

Filename	SHA256
contract.sol	95d4c5a41de54db7680b491dccd1e8af633de850996a bd077b49b6e58600053b

Audit Updates

Initial Audit	27th April 2022
Corrected	

Contract Analysis

CriticalMediumMinorPass

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
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



OCTD - Owner Contract Tokens Drain

Criticality	minor
Location	contract.sol#L390,396

Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the manualswap or manualsend functions.

```
function manualswap() external {
    require(_msgSender() == _developmentAddress || _msgSender() ==
    _marketingAddress || _msgSender() == owner());
        uint256 contractBalance = balanceOf(address(this));
        swapTokensForEth(contractBalance);
}

function manualsend() external {
    require(_msgSender() == _developmentAddress || _msgSender() ==
    _marketingAddress || _msgSender() == owner());
        uint256 contractETHBalance = address(this).balance;
        sendETHToFee(contractETHBalance);
}
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L04	Conformance to Solidity Naming Conventions
•	L05	Unused State Variable



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L110,116,184,188,192,196,204,209,213,218,300,306,313,387,398,4 02

Description

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

```
excludeMultipleAccountsFromFees
toggleSwap
setFee
setNewMarketingAddress
setNewDevAddress
rescueForeignTokens
transferFrom
approve
allowance
...
```

Recommendation

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



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L93

Description

Constant state variables should be declared constant to save gas.

_previousOwner

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L34,299,305,312,300,398,132,145,146,147

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.

```
_decimals
_symbol
_name
_tTotal
_swapEnabled
_amount
_to
_tokenAddr
marketingAddressUpdated
...
```

Recommendation

Follow the Solidity naming convention.

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



L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L93,127

Description

There are segments that contain unused state variables.

```
_tOwned
_previousOwner
```

Recommendation

Remove unused state variables.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	√	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Token	Interface			
	transferFrom	External	✓	-
	transfer	External	✓	-
IUniswapV2Fa ctory	Interface			
	createPair	External	✓	-
IUniswapV2Ro uter02	Interface			
uteroz	swapExactTokensForETHSupportingF eeOnTransferTokens	External	1	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
Context	Implementation			
Context		Internal		
	_msgSender	internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		



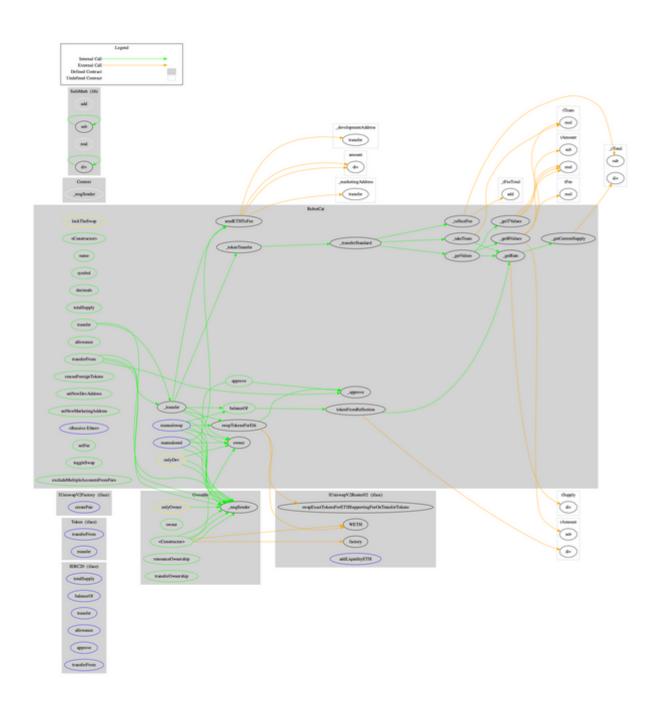
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	1	onlyOwner
RobotCat	Implementation	Context, IERC20, Ownable		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-
	allowance	Public		-
	approve	Public	1	-
	transferFrom	Public	1	-
	tokenFromReflection	Private		
	_approve	Private	1	
	_transfer	Private	1	
	swapTokensForEth	Private	1	lockTheSwap
	sendETHToFee	Private	1	
	_tokenTransfer	Private	√	
	rescueForeignTokens	Public	✓	onlyDev
	setNewDevAddress	Public	✓	onlyDev
	setNewMarketingAddress	Public	1	onlyDev
	_transferStandard	Private	1	
	_takeTeam	Private	1	
	_reflectFee	Private	1	



<receive ether=""></receive>	External	Payable	-
_getValues	Private		
_getTValues	Private		
_getRValues	Private		
_getRate	Private		
_getCurrentSupply	Private		
manualswap	External	✓	-
manualsend	External	✓	-
setFee	Public	✓	onlyDev
toggleSwap	Public	✓	onlyDev
excludeMultipleAccountsFromFees	Public	✓	onlyOwner



Contract Flow





Domain Info

Domain Name	robotcat.store
Registry Domain ID	D292605029-CNIC
Creation Date	2022-04-21T07:56:27+00:00
Updated Date	2022-04-21T07:56:29+00:00
Registry Expiry Date	2023-04-21T23:59:59+00:00
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	https://www.godaddy.com/
Registrar	Go Daddy, LLC
Registrar IANA ID	146

The domain has been created 6 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

Robotcat is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The ownership is present and the team can manually drain the contract's balance from accumulated fees. There is also a limit of max 16% fees.



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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