



Cyberscope

Audit Report

Nurse Cat

April 2022

Type BEP20

Network BSC

Address 0xF935389641087658241A1fD14A1878EfF74cC80B

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Contract Review

Contract Name	mContract
Compiler Version	v0.6.12+commit.27d51765
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xF935389641087658241A1fD14A1878EfF74cC80B
Symbol	NCAT
Decimals	18
Total Supply	1,000,000,000
Domain	nursecat.co

Source Files

Filename	SHA256
contract.sol	833ef34beb18540c509e6bc7c279028fbf137a172347d9c8e49e3452c90c1e61

Audit Updates

Initial Audit	5th April 2022
Corrected	

Contract Analysis

● Critical ● Medium ● Minor ● Pass

Severity	Code	Description	Resolved
●	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	Resolved

BC - Blacklisted Contracts

Criticality	medium
Location	contract.sol#L619

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the `setBot` function.

```
if(sender != owner() && recipient != owner()){  
    require(!bot[sender], "Play fair");  
    require(!bot[recipient], "Play fair");  
}
```

Recommendation

The contract Owner has renounced the ownership hence this functionality can not be abused.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination
●	L15	Local Scope Variable Shadowing

L01 - Public Function could be Declared External

Criticality

minor

Location

contract.sol#L369,378,452,460,478,485,492,512,541,559 and 3 more

Description

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

```
isBotAddress  
decreaseAllowance  
increaseAllowance  
transferFrom  
approve  
allowance  
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#L736,744,745,746,747,748,749

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.

```
_fee  
_burn  
_team  
_ecoSystem  
_marketingAddr  
_preSale  
mContract
```

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#L662,710

Description

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

```
_setupDecimals  
_burn
```

Recommendation

Remove unused functions.

L15 - Local Scope Variable Shadowing

Criticality

minor

Location

contract.sol#L741,748

Description

There are variables that are defined in the local scope containing the same name from an upper scope.

```
_burn  
symbol  
name
```

Recommendation

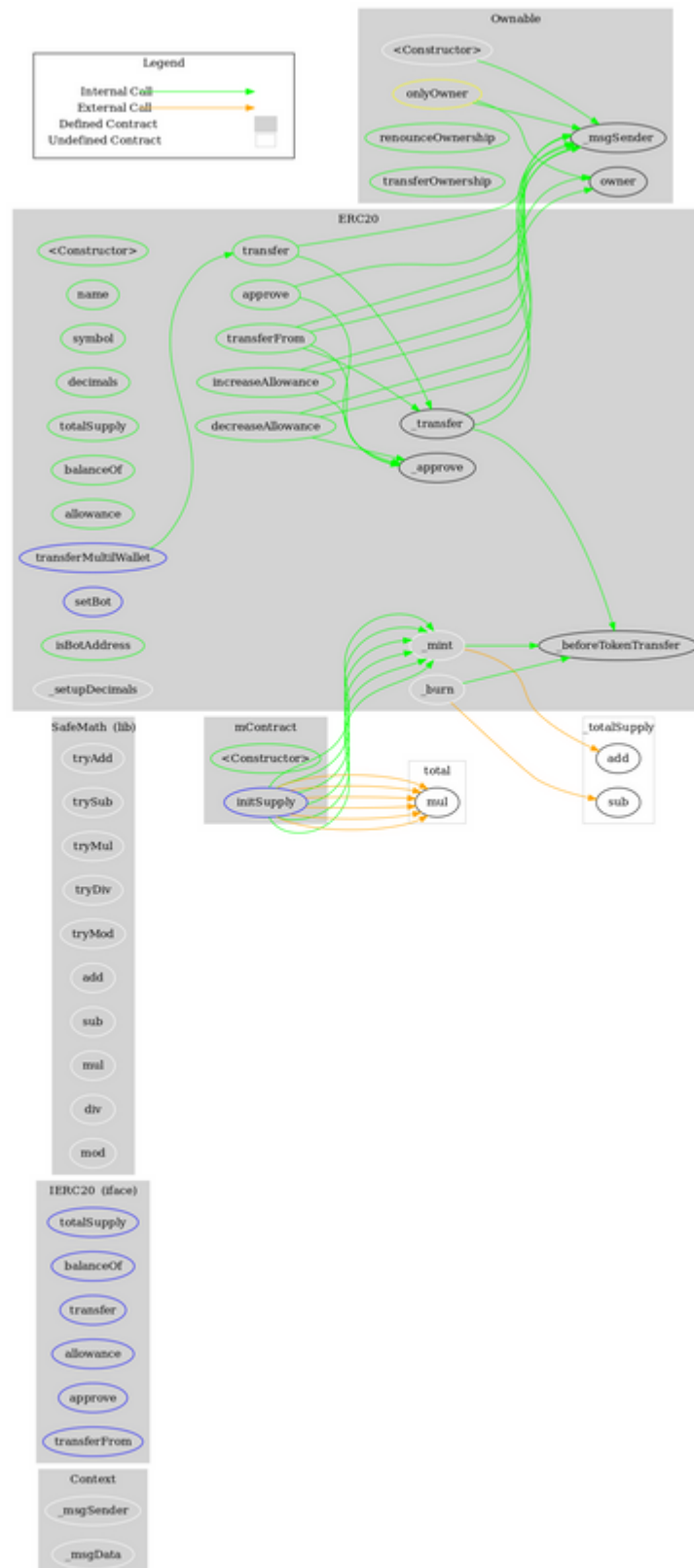
The local variables should have different names from the upper scoped variables.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	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		
Ownable	Implementation	Context		
	<Constructor>	Internal	✓	

	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
ERC20	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	transferMultiWallet	External	✓	onlyOwner
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	setBot	External	✓	onlyOwner
	isBotAddress	Public		-
	_approve	Internal	✓	
	_setupDecimals	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
mContract	Implementation	ERC20		
	<Constructor>	Public	✓	ERC20
	initSupply	External	✓	onlyOwner

Contract Flow



Domain Info

Domain Name	nursecat.co
Registry Domain ID	D81F05D4892654CF8B2C0F1EC953BBF52-GDREG
Creation Date	2022-03-30T15:19:46Z
Updated Date	2022-04-04T15:19:46Z
Registry Expiry Date	2023-03-30T15:19:46Z
Registrar WHOIS Server	whois.registrar.eu
Registrar URL	www.openprovider.com
Registrar	Hosting Concepts B.V. d/b/a Registrar.eu
Registrar IANA ID	1647

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

Nurse Cat 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 has renounced ownership and as a result no one can access admin functions even if some of them could be used in a malicious way to disturb the users' transactions.

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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>