

Audit Report

Nut2Earn

August 2022

Type BEP20

Network BSC

Address 0xB4dA61B4B8f720876023812A282410705eb594F3

Audited by © cyberscope



Table of Contents

Table of Contents	1
Contract Review	2
Source Files	2
Audit Updates	2
Contract Analysis	3
Contract Diagnostics	4
MTS - Manipulate Total Supply	5
Description	5
Recommendation	5
Contract Functions	6
Contract Flow	10
Summary	11
Disclaimer	12
About Cyberscope	13



Contract Review

Contract Name	Nut2Earn
Compiler Version	v0.7.6+commit.7338295f
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xB4dA61B4B8f72087602 3812A282410705eb594F3
Symbol	NUT
Decimals	18
Total Supply	1,000,000
Domain	

Source Files

Filename	SHA256
contract.sol	8044ed98f250c1c6ecb48a3be247977cb2dd4c6e7caf9 c6219f8ff4a5c185a17

Audit Updates

Initial Audit	31st July 2022
Corrected phase 1	1st August 2022
Corrected phase 2	2nd August 2022
Corrected phase 3	5th August 2022

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

Contract Diagnostics

CriticalMediumInformative

Severity	Code	Description
•	MTS	Manipulate Total Supply
•	L04	Conformance to Solidity Naming Conventions



MTS - Manipulate Total Supply

Criticality	informative
Location	contract.sol#L791

Description

Contract is able to manipulate total supply. Since it is a rebase token that is automatically distributed to holders, the total supply will increase with each distribution. This change will have a direct impact on the token price and marketcap.

```
function coreRebase(int256 supplyDelta) private returns (uint256) {
   uint256 epoch = block.timestamp;
   if (supplyDelta == 0) {
       emit LogRebase(epoch, _totalSupply);
        return _totalSupply;
    } else {
       if ((_totalSupply.add(uint256(supplyDelta))) >= MAX_SUPPLY) {
        // in case the rebase will cause the supply to pass MAX_SUPPLY,
autorebase will be turned off & rebase will not happen.
       autoRebase = false;
       emit LogRebase(epoch, _totalSupply);
       return _totalSupply;
    } else {
       _totalSupply = _totalSupply.add(uint256(supplyDelta));
        }
    _gonsPerFragment = TOTAL_GONS.div(_totalSupply);
    nextRebase = epoch + rebaseFrequency;
   emit LogRebase(epoch, _totalSupply);
   return _totalSupply;
```

Recommendation

The contract owner should carefully manage the adjustment of the circulating supply (increases or decreases), according to the token's price fluctuations.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	transfer	External	1	-
	approve	External	1	-
	transferFrom	External	1	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
InterfaceLP	Interface			
	sync	External	1	-
ERC20Detaile	Implementation	IERC20		



	<constructor></constructor>	Public	✓	-
	name	External		-
	symbol	External		-
	decimals	External		-
IDEXRouter	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	1	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
IDEXFactory	Interface			
	createPair	External	✓	-
Ownable	Implementation			
	<constructor></constructor>	Public	✓	-
	owner	External		-
	renounceOwnership	External	✓	onlyOwner
	transferOwnership	External	✓	onlyOwner
Nut2Earn	Implementation	ERC20Detai led, Ownable		
	getTotalUpline	External		-
	getUplineAddressByIndex	External		-
	addMember	External	1	onlyOwner
	approveReferral	External	1	-
	getUpline	Public		-
	getdownLines	External		-
	addReferralFee	Private	✓	



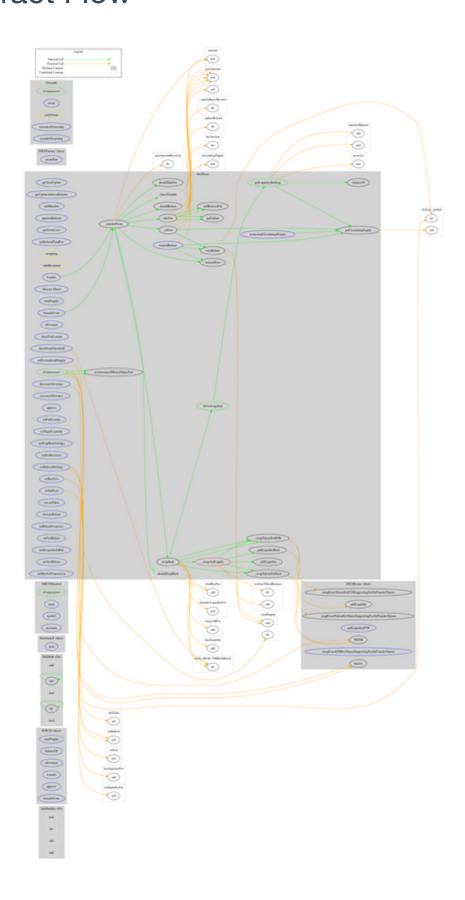
<constructor></constructor>	Public	✓	ERC20Detaile d
<receive ether=""></receive>	External	Payable	-
totalSupply	External		-
noDecimaltotalSupply	External		-
nodecimalCirculatingSUpply	External		-
allowance	External		-
balanceOf	Public		-
checkFeeExempt	External		-
checkSwapThreshold	External		-
shouldRebase	Internal		
shouldTakeFee	Internal		
shouldSwapBack	Internal		
getCirculatingSupply	Public		-
getLiquidityBacking	Public		-
isOverLiquified	Public		-
manualSync	Public	✓	-
transfer	External	✓	validRecipient
_basicTransfer	Internal	✓	
_transferFrom	Internal	1	
transferFrom	External	1	validRecipient
_swapAndLiquify	Private	1	
_addLiquidity	Private	1	
_addLiquidityBusd	Private	1	
_swapTokensForBNB	Private	1	
_swapTokensForBusd	Private	1	
swapBack	Internal	1	swapping
takeFee	Internal	1	
decreaseAllowance	External	1	-
increaseAllowance	External	✓	-
approve	External	✓	_
_rebase	Private	√	
coreRebase	Private	✓	
manualRebase	External	✓	onlyOwner
setAutomatedMarketMakerPair	Public	√	onlyOwner



setFeeExempt	External	✓	onlyOwner
setTargetLiquidity	External	1	onlyOwner
setSwapBackSettings	External	1	onlyOwner
setFeeReceivers	External	1	onlyOwner
setReferralSettings	External	1	onlyOwner
setBuyFees	External	1	onlyOwner
setSellFees	External	1	onlyOwner
rescueToken	External	✓	onlyOwner
setAutoRebase	External	✓	onlyOwner
setRebaseFrequency	External	1	onlyOwner
setNutRebase	External	✓	onlyOwner
setIsLiquidityInBnb	External	✓	onlyOwner
setNextRebase	External	✓	onlyOwner
setMaxSellTransaction	External	✓	onlyOwner



Contract Flow





Summary

Nut2Earn is an interesting project that has a friendly and growing community. The Smart Contract uses a total supply manipulation business model to provide value for the holders. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 25% fees.

12



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