

Audit Report

Nut2Earn

August 2022

SHA256

be6ab611f1f014748fb083a7bf8687248c6c8e689fba2b3abe61c1dd3f9cde83

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Source Files

Filename	SHA256
contract.sol	be6ab611f1f014748fb083a7bf8687248c6c8e689fba2b 3abe61c1dd3f9cde83

Audit Updates

Initial Audit	31st July 2022
Corrected phase 1	1st August 2022
Corrected phase 2	2st 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

CriticalMediumMinor

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



MTS - Manipulate Total Supply

Criticality	informative
Location	contract.sol#L791

Description

Owner is able to manipulate total supply. This change will have a direct impact on the token price and Market Cap.

```
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.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L324,331,332,333,419

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.

_gonSwapThreshold ZeroWalletAddress DeadWalletAddress BusdToken feeDenominator

Recommendation

Follow the Solidity naming convention.

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

Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
ERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	transfer	External	✓	-
	approve	External	√	-
	transferFrom	External	1	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
lutanta a 1 B	lateria			
InterfaceLP	Interface	F		
	sync	External	√	-
ERC20Detailed	Implementation	IERC20		
	<constructor></constructor>	Public	✓	-
	name	External		_



	symbol	External		-
	decimals	External		-
IDEXRouter	Interface			
	factory	External		-
	weth	External		-
	addLiquidity	External	1	-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	√	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
IDEXFactory	Interface			
	createPair	External	/	-
Ownable	Implementation			
	<constructor></constructor>	Public	1	-
	owner	External		-
	renounceOwnership	External	1	onlyOwner
	transferOwnership	External	1	onlyOwner
Nut2Earn	Implementation	ERC20Detai led, Ownable		
	getTotalUpline	External		-
	getUplineAddressByIndex	External		-
	addMember	External	1	onlyOwner
	approveReferral	External	1	-
	getUpline	Public		-
	getdownLines	External		-
	addReferralFee	Public	1	-
	getReferralTotalFee	External		-
	<constructor></constructor>	Public	1	ERC20Detailed
	<receive ether=""></receive>	External	Payable	-



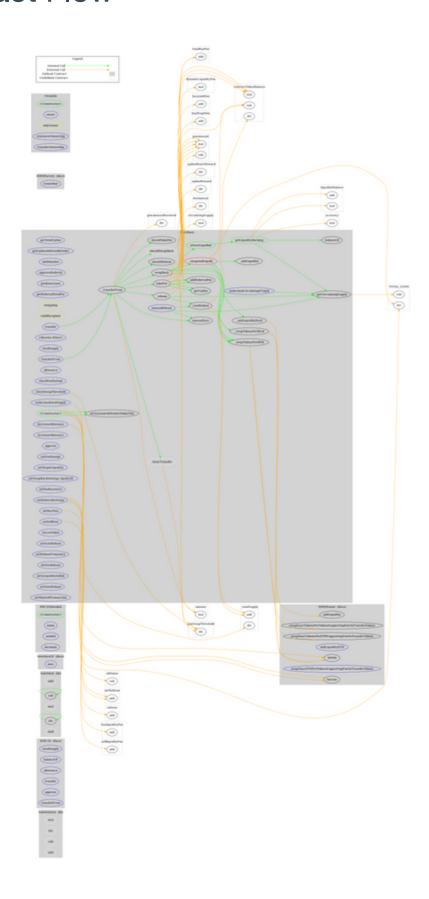
totalSupply	External		-
noDecimaltotalSupply	External		-
nodecimalCirculatingSUpply	External		-
allowance	External		-
balanceOf	Public		-
checkFeeExempt	External		-
checkSwapThreshold	External		-
shouldRebase	Internal		
shouldTakeFee	Internal		
shouldSwapBack	Internal		
getCirculatingSupply	Public		-
getLiquidityBacking	Public		-
isOverLiquified	Public		-
manualSync	Public	1	-
transfer	External	1	validRecipient
_basicTransfer	Internal	1	
_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	1	-
approve	External	1	-
_rebase	Private	1	
coreRebase	Private	1	
manualRebase	External	✓	onlyOwner
setAutomatedMarketMakerPair	Public	1	onlyOwner
setFeeExempt	External	1	onlyOwner
setTargetLiquidity	External	1	onlyOwner
setSwapBackSettings	External	1	onlyOwner



setFeeReceivers	External	✓	onlyOwner
setReferralSettings	External	✓	onlyOwner
setBuyFees	External	✓	onlyOwner
setSellFees	External	✓	onlyOwner
rescueToken	External	✓	onlyOwner
setAutoRebase	External	✓	onlyOwner
setRebaseFrequency	External	✓	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.



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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