

Audit Report Bingo

April 2022

Type BEP20

Network BSC

Address 0xd3Be8ed77fBdaF42E5395D9d7fB72BCb4110CFB0

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Bingo Token Audit

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Contract Review

Contract Name	BingoGame
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	Unlicense
Explorer	https://bscscan.com/token/0xd3Be8ed77fBdaF42E539 5D9d7fB72BCb4110CFB0
Symbol	Bingo
Decimals	18
Total Supply	1,000,000,000
Domain	bingobet.me

Source Files

Filename	SHA256
contract.sol	773a437ab08143b42c48aea9c8fd1ffa8be8a3806b5153 92c1a56ef285f13ff7

Audit Updates

Initial Audit	9th 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



ST - Stop Transactions

```
Criticality critical

Location contract.sol#L561, 571, 664, 773
```

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the _maxTxAmount to zero.

The contract owner can also convert the contract into a honeypot and prevent users from selling by increasing the selling taxes.

```
else if(isMarketPair[recipient]) {
          feeAmount = amount.mul(_totalTaxIfSelling).div(100);
    }
```

Recommendation

The contract could embody a check for not allowing setting the _maxTxAmount less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply.

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OCTD - Owner Contract Tokens Drain

Criticality	minor
Location	contract.sol#L534

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 rescueToken function.

```
function rescueToken(address tokenAddress, uint256 tokens) public onlyOwner
returns (bool success) {
     return IERC20(tokenAddress).transfer(msg.sender, tokens);
}
```

Recommendation



ELFM - Exceed Limit Fees Manipulation

Criticality	critical
Location	contract.sol#L550, 557

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the setBuyTaxes and the setSelTaxes functions with a high percentage value.

```
function setBuyTaxes(uint256 newLiquidityTax, uint256 newMarketingTax)
external onlyOwner() {
    __buyLiquidityFee = newLiquidityTax;
    __buyMarketingFee = newMarketingTax;

    __totalTaxIfBuying = _buyLiquidityFee.add(_buyMarketingFee);
}
```

```
function setSelTaxes(uint256 newLiquidityTax, uint256 newMarketingTax)
external onlyOwner() {
    _sellLiquidityFee = newLiquidityTax;
    _sellMarketingFee = newMarketingTax;

    _totalTaxIfSelling = _sellLiquidityFee.add(_sellMarketingFee);
}
```

Recommendation

The contract could embody a check for the maximum acceptable value.

BC - Blacklisted Contracts

Criticality	medium
Location	contract.sol#L655, 756

Description

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

```
require(!isbotBlackList[sender], "account is bot");
```

Recommendation

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
•	L07	Missing Events Arithmetic
•	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L161,166,172,479,483,487,491,499,503,508 and 11 more

Description

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

transferFrom
transfer
changeRouterVersion
getCirculatingSupply
setSwapAndLiquifyByLimitOnly
setSwapAndLiquifyEnabled
setIsExcludedFromFee
setMarketPairStatus
rescueToken
...

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L385,383,384,142,141

Description

Constant state variables should be declared constant to save gas.

asdasd
_lockTime
_symbol
_name
_decimals

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L209,210,226,245,599,756,392,401,402,404 and 8 more

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.

```
_walletMax
_maxTxAmount
_totalDistributionShares
_totalTaxlfSelling
_totalTaxlfBuying
_marketingShare
_liquidityShare
_sellMarketingFee
_sellLiquidityFee
...
```

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#L141,142

Description

There are segments that contain unused state variables.

_lockTime asdasd

Recommendation

Remove unused state variables.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L550,557,564,571,583,587

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
minimumTokensBeforeSwap = newLimit
_walletMax = newLimit
_maxTxAmount = maxTxAmount
_liquidityShare = newLiquidityShare
_totalTaxlfSelling = _sellLiquidityFee.add(_sellMarketingFee)
_totalTaxlfBuying = _buyLiquidityFee.add(_buyMarketingFee)
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L119,102,106,110,114,83,94

Description

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

sendValue isContract functionCallWithValue functionCall _functionCallWithValue

Recommendation

Remove unused functions.

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Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	1	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
	isContract	Internal		
	sendValue	Internal	1	
	functionCall	Internal	1	
	functionCall	Internal	1	
	functionCallWithValue	Internal	1	



	functionCallWithValue	Internal	✓	
	_functionCallWithValue	Private	√	
Ownable	Implementation	Context		
	<constructor></constructor>	Public	1	-
	owner	Public		-
	waiveOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	getTime	Public		-
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pa ir	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	1	-



	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	1	-
	removeLiquidityWithPermit	External	1	-
	removeLiquidityETHWithPermit	External	√	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	1	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	1	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-



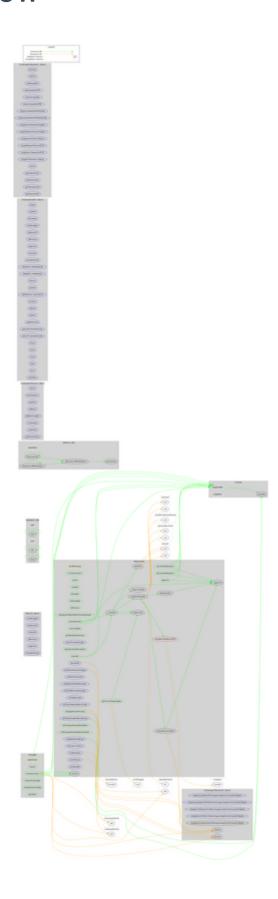
IUniswapV2Ro	Interface	IUniswapV2		
uter02		Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	1	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
BingoGame	Implementation	Context, IERC20, Ownable		
	<constructor></constructor>	Public	√	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	allowance	Public		-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	minimumTokensBeforeSwapAmount	Public		-
	approve	Public	1	-
	_approve	Private	1	
	burnBNB	External	1	onlyOwner
	rescueToken	Public	1	onlyOwner
	setMarketPairStatus	Public	1	onlyOwner
	setIsTxLimitExempt	External	✓	onlyOwner
	setIsExcludedFromFee	Public	1	onlyOwner
	setBuyTaxes	External	1	onlyOwner
	setSelTaxes	External	1	onlyOwner
	setDistributionSettings	External	1	onlyOwner
	setMaxTxAmount	External	1	onlyOwner



enableDisableWalletLimit	External	✓	onlyOwner
setIsWalletLimitExempt	External	1	onlyOwner
setWalletLimit	External	✓	onlyOwner
setNumTokensBeforeSwap	External	✓	onlyOwner
setMarketingWalletAddress	External	✓	onlyOwner
setliqWalletAddress	External	✓	onlyOwner
setSwapAndLiquifyEnabled	Public	✓	onlyOwner
setSwapAndLiquifyByLimitOnly	Public	✓	onlyOwner
getCirculatingSupply	Public		-
transferToAddressETH	Private	✓	
changeRouterVersion	Public	1	onlyOwner
<receive ether=""></receive>	External	Payable	-
transfer	Public	✓	-
transferFrom	Public	✓	-
_transfer	Private	1	
_basicTransfer	Internal	✓	
swapAndLiquify	Private	1	lockTheSwap
swapTokensForEth	Private	1	
addLiquidity	Private	1	
setblacklist	External	1	onlyOwner
takeFee	Internal	1	



Contract Flow



Domain Info

Domain Name	BINGOBET.ME
Registry Domain ID	D425500000339205968-AGRS
Creation Date	2022-04-05T03:39:41Z
Updated Date	2022-04-05T03:39:42Z
Registry Expiry Date	2023-04-05T03:39:41Z
Registrar WHOIS Server	whois.gandi.net
Registrar URL	http://www.gandi.net
Registrar	Gandi SAS
Registrar IANA ID	81

There is no public billing information, the creator is protected by the privacy settings.



Summary

There are some functions that can be abused by the owner, like blacklisting contracts, manipulating fees and transferring funds to the team's wallet. The contract can also be converted into a honeypot and prevent users from selling if the owner abuses the admin functions. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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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