

Audit Report The Jigsaw

September 2022

Network BSC

Address 0xA1a6C86ab2974B5A33D83e0D086a0bbf661FB141

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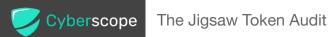


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Contract Review

Contract Name	TheJigsaw
Compiler Version	v0.8.16+commit.07a7930e
Testing Deploy	https://bscscan.com/token/0xA1a6C86ab2974B5A33D8 3e0D086a0bbf661FB141
Symbol	SAW
Decimals	18
Total Supply	100,000,000
Domain	https://thejigsaw.xyz

Source Files

Filename	SHA256
contract.sol	0a03059f5c28b91b31fef467f83390cd9e4ed924afd47fd3 e8c524a5f420430e

Audit Updates

Initial Audit	9th September 2022
Phase 2	10th September 2022



Contract Analysis

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

Contract Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L01	Public Function could be Declared External	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L275,356,519
Status	Unresolved

Description

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

transfer getCirculatingSupply enableTrading

Recommendation

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



L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L40,155,138,139,119,137,120,123,364,118,131,121
Status	Unresolved

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.

```
WETH
_hasLiqBeenAdded
maxRoundtripTax
masterTaxDivisor
_name
maxTransferTaxes
_symbol
_tTotal
_antiSnipe
...
```

Recommendation

Follow the Solidity naming convention.

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



L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L400,391
Status	Unresolved

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.

```
piSwapPercent = priceImpactSwapPercent
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
```

Recommendation

Emit an event for critical parameter changes.



L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L547
Status	Unresolved

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

check

Recommendation

The variables should be declared before any usage of them.



L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L547,546
Status	Unresolved

Description

The are variables that are defined in the local scope and are not initialized.

check checked

Recommendation

All the local scoped variables should be initialized.



Contract Functions

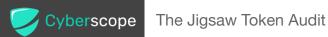
Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		_
	getReserves	External		-
	sync	External	1	-
IRouter01	Interface			
	factory	External		_
	WETH	External		_
	addLiquidityETH	External	Payable	
	addLiquidity	External	√ ayabie	_
	swapExactETHForTokens	External	Payable	_
	getAmountsOut	External	i ayabib	



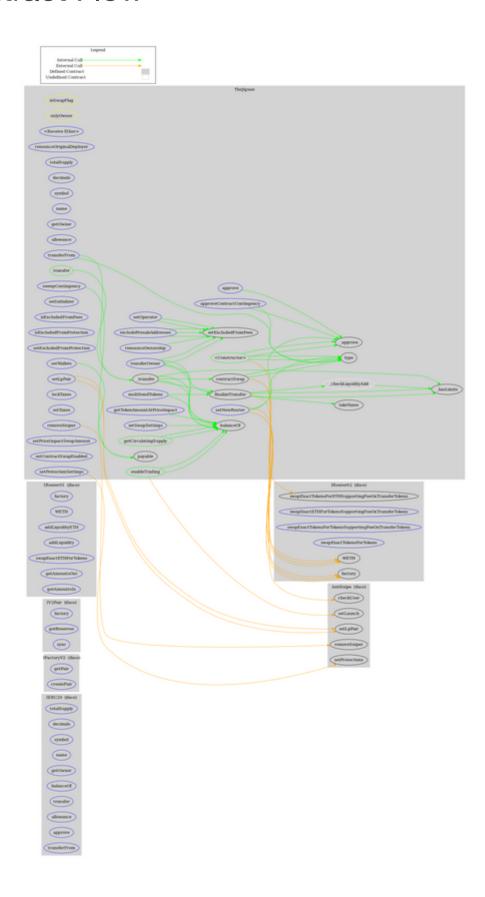
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	1	-
	swapExactTokensForTokens	External	✓	-
AntiSnipe	Interface			
	checkUser	External	1	-
	setLaunch	External	1	-
	setLpPair	External	✓	-
	setProtections	External	1	-
	removeSniper	External	1	-
TheJigsaw	Implementation	IERC20		
Theolysaw	<constructor></constructor>	Public	Payable	_
	<receive ether=""></receive>	External	Payable	_
	transferOwner	External	√	onlyOwner
	renounceOwnership	External	1	onlyOwner
	setOperator	External	✓	-
	renounceOriginalDeployer	External	/	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	allowance	External		-
	balanceOf	Public		-
	transfer	Public	✓	-
	approve	External	1	-
	_approve	Internal	1	
	approveContractContingency	External	1	onlyOwner



transferFrom	External	✓	-
setNewRouter	External	✓	onlyOwner
setLpPair	External	✓	onlyOwner
setInitializer	External	✓	onlyOwner
isExcludedFromFees	External		-
isExcludedFromProtection	External		-
setExcludedFromFees	Public	✓	onlyOwner
setExcludedFromProtection	External	✓	onlyOwner
getCirculatingSupply	Public		-
removeSniper	External	1	onlyOwner
setProtectionSettings	External	1	onlyOwner
lockTaxes	External	1	onlyOwner
setTaxes	External	1	onlyOwner
setWallets	External	1	onlyOwner
getTokenAmountAtPriceImpact	External		-
setSwapSettings	External	1	onlyOwner
setPriceImpactSwapAmount	External	1	onlyOwner
setContractSwapEnabled	External	1	onlyOwner
excludePresaleAddresses	External	1	onlyOwner
_hasLimits	Internal		
_transfer	Internal	1	
contractSwap	Internal	1	inSwapFlag
_checkLiquidityAdd	Internal	✓	
enableTrading	Public	1	onlyOwner
sweepContingency	External	1	onlyOwner
multiSendTokens	External	1	onlyOwner
finalizeTransfer	Internal	1	
takeTaxes	Internal	1	



Contract Flow





Domain Info

Domain Name	thejigsaw.xyz
Registry Domain ID	D317030284-CNIC
Creation Date	2022-08-11T10:20:17.0Z
Updated Date	2022-08-11T10:20:18.0Z
Registry Expiry Date	2024-08-11T23:59:59.0Z
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	https://www.godaddy.com/
Registrar	Go Daddy, LLC
Registrar IANA ID	146

The domain was created 29 days before the creation of the audit. It will expire in almost 2 years.

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



Summary

The Jigsaw Token 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 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 10% fees.



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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