Cyberscope

Audit Report
Bitindi Chain

October 2022

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Contract Review

Contract Name	BitindiChain
Compiler Version	v0.8.11+commit.d7f03943
Testing Deploy	https://testnet.bscscan.com/token/0x47147EF5bedA3608548b26D9815036100dD77D1c
Symbol	BNI
Decimals	9
Total Supply	50,000,000
Domain	https://bitindi.com

Source Files

Filename	**SHA256**
contract.sol	0002c7d4b5ec5f41f35aaade1d12056bb7e1865b7455962811af96c41a9d5aae

Audit Updates

Initial Audit	6th October 2022
Corrected	

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
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Contract Diagnostics

● Critical ● Medium ● Minor / 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
●	L09	Dead Code Elimination	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#L445,441,620,312
Status	Unresolved

Description

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

```
getMaxWallet
getMaxTX
enableTrading
approveContractContingency
```

Recommendation

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

L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L147,128,126,148,410,33,138,474,145,129,117,114,144,173,130,146,127
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.

```
maxRoundtripTax
_symbol
startingSupply
masterTaxDivisor
_antiBlock
WETH
_taxRates
_antiSnipe
_minReflection
...
```

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#L484,436,453,431,462,479
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.

```
reflectorGas = gas
_maxWalletSize = (_tTotal * percent) / divisor
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
_maxTxAmount = (_tTotal * percent) / divisor
piSwapPercent = priceImpactSwapPercent
minimumHoldForRewards = (_tTotal * percent) / divisor
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality	minor / informative
Location	contract.sol#L525
Status	Unresolved

Description

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

```
_basicTransfer
```

Recommendation

Remove unused functions.

L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L637
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#L636,637
Status	Unresolved

Description

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

```
checked
check
```

Recommendation

All the local scoped variables should be initialized.

Contract Functions

Contract	Type	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	✓	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	✓	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-

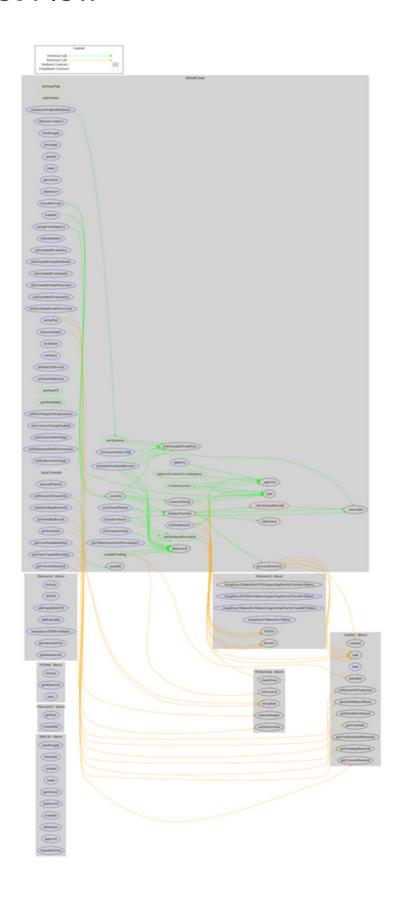|	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	✓	-
Protections	Interface			
	checkUser	External	✓	-
	setLaunch	External	✓	-
	setLpPair	External	✓	-
	setProtections	External	✓	-
	removeSniper	External	✓	-
Cashier	Interface			
	setRewardsProperties	External	✓	-
	tally	External	✓	-
	load	External	Payable	-
	cashout	External	✓	-
	giveMeWelfarePlease	External	✓	-
	getTotalDistributed	External		-
	getUserInfo	External		-
	getUserRealizedRewards	External		-
	getPendingRewards	External		-
	initialize	External	✓	-
	getCurrentReward	External		-
BitindiChain	Implementation	IERC20		
	<Constructor>	Public	Payable	-
	transferOwner	External	✓	onlyOwner
	renounceOwnership	External	✓	onlyOwner
	setOperator	Public	✓	-

renounceOriginalDeployer	External	✓	-
<Receive Ether>	External	Payable	-
totalSupply	External		-
decimals	External		-
symbol	External		-
name	External		-
getOwner	External		-
balanceOf	Public		-
allowance	External		-
approve	External	✓	-
_approve	Internal	✓	
approveContractContingency	Public	✓	onlyOwner
transfer	External	✓	-
transferFrom	External	✓	-
setNewRouter	External	✓	onlyOwner
setLpPair	External	✓	onlyOwner
setInitializers	External	✓	onlyOwner
isExcludedFromFees	External		-
isExcludedFromDividends	External		-
isExcludedFromLimits	External		-
isExcludedFromProtection	External		-
setExcludedFromLimits	External	✓	onlyOwner
setDividendExcluded	Public	✓	onlyOwner
setExcludedFromFees	Public	✓	onlyOwner
setExcludedFromProtection	External	✓	onlyOwner
removeSniper	External	✓	onlyOwner
setProtectionSettings	External	✓	onlyOwner
lockTaxes	External	✓	onlyOwner
setTaxes	External	✓	onlyOwner
setMaxTxPercent	External	✓	onlyOwner
setMaxWalletSize	External	✓	onlyOwner
getMaxTX	Public		-
getMaxWallet	Public		-
getTokenAmountAtPriceImpact	External		-
setSwapSettings	External	✓	onlyOwner

setPriceImpactSwapAmount	External	✓	onlyOwner
setContractSwapEnabled	External	✓	onlyOwner
setRewardsProperties	External	✓	onlyOwner
setMinimumHoldForRewards	External	✓	onlyOwner
setReflectorSettings	External	✓	onlyOwner
excludePresaleAddresses	External	✓	onlyOwner
_hasLimits	Internal		
_basicTransfer	Internal	✓	
_transfer	Internal	✓	
contractSwap	Internal	✓	inSwapFlag
_checkLiquidityAdd	Private	✓	
enableTrading	Public	✓	onlyOwner
finalizeTransfer	Internal	✓	
processRewards	Internal	✓	
takeTaxes	Internal	✓	
multiSendTokens	External	✓	onlyOwner
manualDeposit	External	✓	onlyOwner
sweepContingency	External	✓	onlyOwner
claimPendingRewards	External	✓	-
getTotalReflected	External		-
getUserInfo	External		-
getUserRealizedGains	External		-
getUserUnpaidEarnings	External		-
getCurrentReward	External		-

Contract Flow

Domain Info

Domain Name	bitindi.com
Registry Domain ID	2573362085_DOMAIN_COM-VRSN
Creation Date	2020-11-19T16:48:48.00Z
Updated Date	2021-12-15T18:27:56.13Z
Registry Expiry Date	2022-11-19T16:48:48.00Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Registrar	NAMECHEAP INC
Registrar IANA ID	1068

The domain was created almost 2 years before the creation of the audit. It will expire in about 1 month.

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

Summary

Bitindi Chain 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 20% fees.

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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