

Audit Report

OOZE

April 2022

Type BEP20

Network BSC

Address 0x6d850247f9f99a85217f9da5bcb5b36ca5350b8a

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Contract Review

Contract Name	CoinToken
Compiler Version	v0.8.10+commit.fc410830
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x6d850247f9f99a85217f9 da5bcb5b36ca5350b8a
Symbol	OOZE
Decimals	18
Total Supply	100,000,000
Domain	ooze.site

Source Files

Filename	SHA256
contract.sol	07bf1b7844f274d1a10ddee98f577cf68a2ddd06b515b 7f1fd68066d11f3b0b1

Audit Updates

Initial Audit	18th April 2022
Corrected	19th April 2022

Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description	Status
•	ST	Contract Owner is not able to stop or pause transactions	Resolved
•	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%)	Resolved
•	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	Resolved



ST - Stop Transactions

```
Criticality critical

Location contract.sol#L1001,1088
```

Description

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

```
require(!paused(), "CoinToken: token transfer while paused");
```

The contract owner has the authority to stop sales for all users. The owner may take advantage of it by setting the sellTaxes to very high values. This will result in a **HONEYPOT** behaviour.

```
} else if(to == address(uniswapV2Pair)) {
    tax += baseUnit * sellTaxes["marketing"];
    tax += baseUnit * sellTaxes["dev"];
    tax += baseUnit * sellTaxes["liquidity"];
    tax += baseUnit * sellTaxes["charity"];

if(tax > 0) {
    _transfer(from, address(this), tax);
}
```

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.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Corrected 19th April 2022

The team has renounced ownership and the threats have been resolved.



ELFM - Exceed Limit Fees Manipulation

```
Criticality critical

Location contract.sol#L1078,1088
```

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 setBuyTax and the setSellTax functions with high percentage values.

```
function setBuyTax(uint256 dev, uint256 marketing, uint256 liquidity,
uint256 charity) public onlyOwner {
    buyTaxes["dev"] = dev;
    buyTaxes["marketing"] = marketing;
    buyTaxes["liquidity"] = liquidity;
    buyTaxes["charity"] = charity;
}

/**
    * @dev Sets tax for sells.
    */
    function setSellTax(uint256 dev, uint256 marketing, uint256 liquidity,
uint256 charity) public onlyOwner {

    sellTaxes["dev"] = dev;
    sellTaxes["marketing"] = marketing;
    sellTaxes["liquidity"] = liquidity;
    sellTaxes["charity"] = charity;
}
```

Recommendation

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

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Corrected 19th April 2022

The team has renounced ownership and the threats have been resolved.

BC - Blacklisted Contracts

Criticality	medium
Location	contract.sol#L1046

Description

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

```
require(!isBlacklisted(msg.sender), "CoinToken: sender blacklisted");
require(!isBlacklisted(recipient), "CoinToken: recipient blacklisted");
require(!isBlacklisted(tx.origin), "CoinToken: sender blacklisted");
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Corrected 19th April 2022

The team has renounced ownership and the threats have been resolved.

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
•	L13	Divide before Multiply Operation
•	L14	Uninitialized Variables in Local Scope



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L177,185,202,209,216,228,236,247,265,293,312,518,526,1016,1023,1031,1039,1046,1054,1070,1108,1116

Description

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

```
disableTax
enableTax
removeExclude
disableBlacklist
enableBlacklist
burn
unpause
pause
triggerTax
...
```

Recommendation

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



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L838,843,848,831,835,840,845,837,842,847,836,841,846,833

Description

Constant state variables should be declared constant to save gas.

```
swapThreshold
marketingTaxWallet
marketingTaxSell
marketingTaxBuy
liquidityTaxWallet
liquidityTaxSell
liquidityTaxSell
devTaxWallet
devTaxWallet
...
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L638,639,656,692

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
MINIMUM_LIQUIDITY
PERMIT_TYPEHASH
DOMAIN_SEPARATOR

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#L835,836,837,838,840,841,842,843,845,846,847,848

Description

There are segments that contain unused state variables.

```
charityTaxWallet
liquidityTaxWallet
marketingTaxWallet
devTaxWallet
charityTaxSell
liquidityTaxSell
marketingTaxSell
devTaxSell
charityTaxBuy
...
```

Recommendation

Remove unused state variables.

L13 - Divide before Multiply Operation

Criticality	minor
Location	contract.sol#L890

Description

Performing divisions before multiplications may cause lose of prediction.

```
charityETH = (ethGained * ((charityTokens * 10 ** 18) / taxSum)) / 10 ** 18
devETH = (ethGained * ((devTokens * 10 ** 18) / taxSum)) / 10 ** 18
marketingETH = (ethGained * ((marketingTokens * 10 ** 18) / taxSum)) / 10 ** 18
liquidityETH = (ethGained * ((liquidityTokens / 2 * 10 ** 18) / taxSum)) / 10
** 18
baseUnit = amount / denominator
...
```

Recommendation

The multiplications should be prior to the divisions.

L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L896

Description

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

tax

Recommendation

All the local scoped variables should be initialized.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
ILITOZO	totalSupply	External		_
	balanceOf	External		_
	transfer	External	√	_
	allowance	External		_
	approve	External	✓	_
	transferFrom	External	1	
	transiermoni	External	V	-
IERC20Metada	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-
	allowance	Public		-



	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
Ownable	Implementation	Context		
OWNIGOTO	<constructor></constructor>	Public	√	_
	owner	Public	•	_
	renounceOwnership	Public	√	onlyOwner
	transferOwnership	Public	√	onlyOwner
	_setOwner	Internal	√	OffiyOwner
	_SetOwner	memai	V	
Pausable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	paused	Public		-
	_pause	Internal	✓	whenNotPause d
	_unpause	Internal	✓	whenPaused
IUniswapV2Pai	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	√	-
	transferFrom	External	1	



	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	1	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	1	-
	initialize	External	1	-
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-

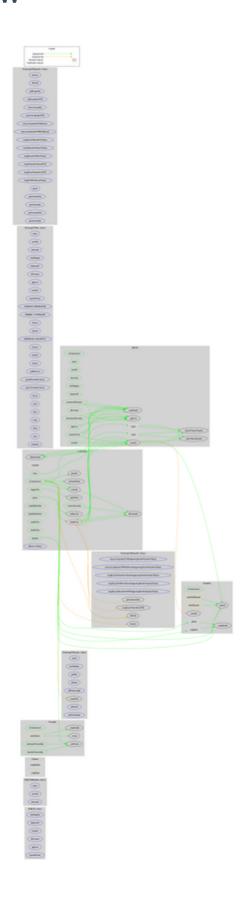
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	1	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	√	-
	removeLiquidityETHWithPermitSuppo rtingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	√	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
CoinToken	Implementation	ERC20, Ownable, Pausable		
	<constructor></constructor>	Public	Payable	ERC20
	handleTax	Private	✓	
	_transfer	Internal	✓	
	triggerTax	Public	✓	onlyOwner
	pause	Public	✓	onlyOwner
	unpause	Public	1	onlyOwner



burn	Public	✓	onlyOwner
enableBlacklist	Public	✓	onlyOwner
disableBlacklist	Public	✓	onlyOwner
exclude	Public	✓	onlyOwner
removeExclude	Public	✓	onlyOwner
setBuyTax	Public	✓	onlyOwner
setSellTax	Public	✓	onlyOwner
setTaxWallets	Public	✓	onlyOwner
enableTax	Public	✓	onlyOwner
disableTax	Public	✓	onlyOwner
isBlacklisted	Public		-
isExcluded	Public		-
<receive ether=""></receive>	External	Payable	-



Contract Flow



Domain Info

Domain Name	ooze.site
Registry Domain ID	D285549924-CNIC
Creation Date	2022-03-29T12:14:14+00:00
Updated Date	2022-03-29T12:14:18+00:00
Registry Expiry Date	2023-03-29T23:59:59+00:00
Registrar WHOIS Server	whois.PublicDomainRegistry.com
Registrar URL	https://publicdomainregistry.com
Registrar	PDR Ltd. d/b/a PublicDomainRegistry.com
Registrar IANA ID	303

The domain has been created 20 days before the creation of the audit. It will expire in 12 months.

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

Summary

OOZE is an interesting project that has a friendly and growing community. There are some functions that can be abused by the owner, like manipulating fees up to 100%, blacklisting wallets from trading and stopping transactions. The contract can 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.

Corrected 19th April 2022

The team has renounced ownership and the threats have been resolved.

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.

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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 provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io