Cyberscope

Audit Report

MetaWeb3Pad

August 2022

Type	BEP20
Network	BSC
Address	0x510b841dD8246C2793932661Ff412d0d8C022209
Audited by	© cyberscope

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Contract Review

Contract Name	MetaWeb3Pad
Compiler Version	v0.8.15+commit.e14f2714
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x510b841dD8246C2793932661Ff412d0d8C022209
Symbol	MetaWeb3Pad
Decimals	18
Total Supply	1,000,000,000
Domain	

Source Files

Filename	SHA256
contract.sol	8819f971a88b6a958af49d8aed57b9ba6f4629de829c9443ad6c681616484a3e

Audit Updates

Initial Audit	2nd August 2022
Corrected phase 1	5th August 2022
Corrected phase 2	18th August 2022

Contract Analysis

Critical Medium Minor Pass

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
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

Contract Diagnostics

Critical Medium Minor

Severity	Code	Description
	CR	Code Repetition
	L01	Public Function could be Declared External
	L02	State Variables could be Declared Constant
	L04	Conformance to Solidity Naming Conventions
	L06	Missing Events Access Control
	L07	Missing Events Arithmetic
	L09	Dead Code Elimination
	L14	Uninitialized Variables in Local Scope

CR - Code Repetition

Criticality	minor
Location	contract.sol#L741

Description

This code segment is repetitive in the contract. This segment increases the code size of the contract unnecessarily.

```
uint256 initialBalance = address(this).balance;

address[] memory path = new address[](2);
path[0] = address(this);
path[1] = uniswapV2Router.WETH();

uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
    contractTokenBalance,
    0,
    path,
    address(this),
    block.timestamp);

uint256 newBalance = address(this).balance - initialBalance;
```

Recommendation

Create an internal function that contains the code segment and remove it from all the sections.

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L65,70,92,96,100,112,117,121,126,144,149,556,570,596,604,608,612

Description

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

```
isExcludedMaxWallet
isExcludedMaxTxn
isExcludedFromFees
excludeFromLimits
setAutomatedMarketMakerPair
_openTrading
decreaseAllowance
increaseAllowance
transferFrom
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L456,461

Description

Constant state variables should be declared constant to save gas.

```
swapEnabled
DEAD
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L263,264,281,301,556,583,630,641,679,456,467,468

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.

```
_isExcludedMaxWallet
_isExcludedMaxTxn
DEAD
_marketingWallet
_marketingTaxOnSell
_lpTaxOnSell
_marketingTaxOnBuy
_lpTaxOnBuy
_operator
...
```

Recommendation

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

L06 - Missing Events Access Control

Criticality	minor
Location	contract.sol#L583

Description

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

```
operator = _operator
```

Recommendation

Emit an event for critical parameter changes.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L686

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.

```
swapTokensAtAmount = newAmount
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L193

Description

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

```
_burn
```

Recommendation

Remove unused functions.

L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L732

Description

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

```
liquidityTokens
```

Recommendation

All the local scoped variables should be initialized.

Contract Functions

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
ERC20	Implementation	Context, IERC20, IERC20Metadata		
	<Constructor>	Public	✓	-

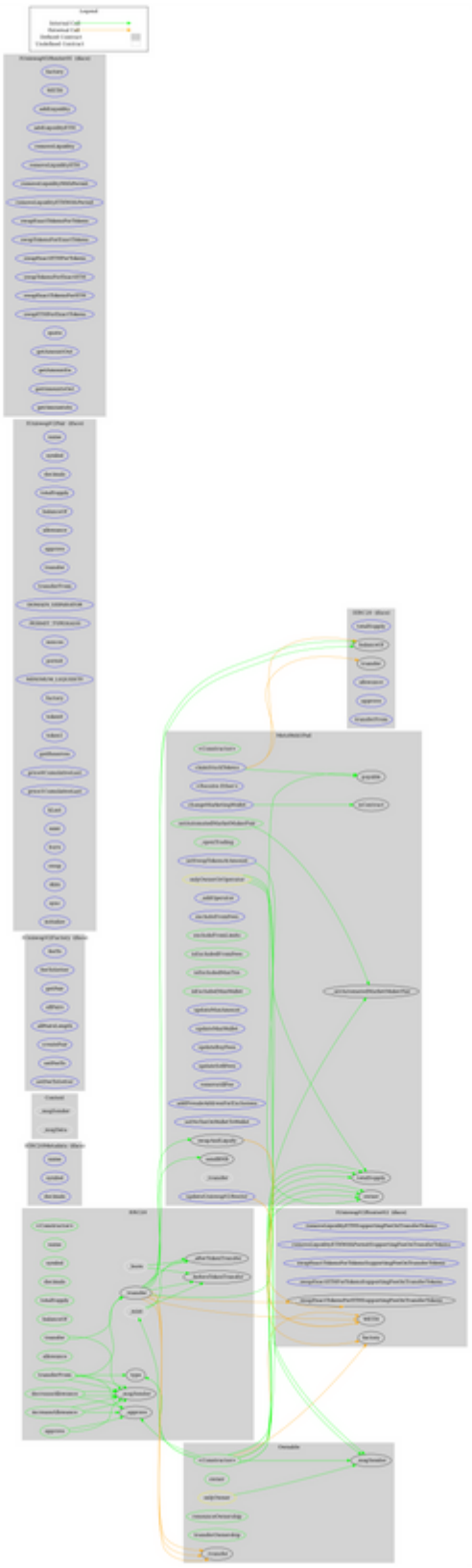
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	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	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-

	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
MetaWeb3Pad	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20
	<Receive Ether>	External	Payable	-
	claimStuckTokens	External	✓	onlyOwnerOrOperator
	isContract	Internal		
	sendBNB	Internal	✓	
	_openTrading	Public	✓	onlyOwner
	updateUniswapV2Router	External	✓	onlyOwnerOrOperator
	setAutomatedMarketMakerPair	Public	✓	onlyOwnerOrOperator
	_setAutomatedMarketMakerPair	Private	✓	

	_addOperator	External	✓	onlyOwner
	excludeFromFees	External	✓	onlyOwner
	excludeFromLimits	Public	✓	onlyOwner
	isExcludedFromFees	Public		-
	isExcludedMaxTxn	Public		-
	isExcludedMaxWallet	Public		-
	updateMaxAmount	External	✓	onlyOwner
	updateMaxWallet	External	✓	onlyOwner
	updateBuyFees	External	✓	onlyOwner
	updateSellFees	External	✓	onlyOwner
	removeAllFee	External	✓	onlyOwner
	addPresaleAddressForExclusions	External	✓	onlyOwner
	setNoTaxOnWalletToWallet	External	✓	onlyOwner
	changeMarketingWallet	External	✓	onlyOwner
	setSwapTokensAtAmount	External	✓	onlyOwner
	_transfer	Internal	✓	
	swapAndLiquify	Private	✓	

Contract Flow



Domain Info

Domain Name	metaweb3pad.io
Registry Domain ID	4d9ab6768dd14ea9ad5b6a701c5095a2-DONUTS
Creation Date	2022-07-18T05:08:01Z
Updated Date	2022-07-23T05:08:46Z
Registry Expiry Date	2023-07-18T05:08:01Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	https://www.namecheap.com/
Registrar	NameCheap, Inc.
Registrar IANA ID	1068

The domain has been created in 12 months before the creation of the audit.

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

Summary

MetaWeb3Pad is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. There is also a limit of max 15% fees. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

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

The Cyberscope team

https://www.cyberscope.io