



Cyberscope

## Audit Report

# MetaWeb3Pad

August 2022

Type ERC20

Network RINKEBY TESTNET

Address 0x8D4B5586D4F06b4aA7fB7418EadC7E16cb152728

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## Contract Review

<b>Contract Name</b>	MetaWeb3Pad
<b>Compiler Version</b>	v0.8.15+commit.e14f2714
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://rinkeby.etherscan.io/address/0x8d4b5586d4f06b4aa7fb7418eadc7e16cb152728#code">https://rinkeby.etherscan.io/address/0x8d4b5586d4f06b4aa7fb7418eadc7e16cb152728#code</a>
<b>Symbol</b>	MetaWeb3Pad
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000
<b>Domain</b>	<a href="https://metaweb3pad.io">https://metaweb3pad.io</a>

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	0a49c373629c9476283ed1e626790fe874e3fa5b605b9ccd5ee7059fae749eec

## Audit Updates

<b>Initial Audit</b>	2nd August 2022
<b>Corrected</b>	

# 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
●	L07	Missing Events Arithmetic
●	L09	Dead Code Elimination
●	L14	Uninitialized Variables in Local Scope

## CR - Code Repetition

**Criticality**

minor

**Location**

contract.sol#L1

### 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#L568,125,554,64,601,99,597,148,95,111,143,589,69,91,120,605,116

### Description

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

```
allowance
isExcludedMaxWallet
approve
name
transferOwnership
excludeFromLimits
increaseAllowance
transfer
symbol
...
```

### Recommendation

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



## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contract.sol#L460,455

### Description

Constant state variables should be declared constant to save gas.

```
DEAD  
swapEnabled
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

contract.sol#L634,672,263,280,623,262,467,466,554,300,455

### 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.

```
DEAD
_marketingTaxOnBuy
WETH
_openTrading
_isExcludedMaxTxn
_isExcludedMaxWallet
DOMAIN_SEPARATOR
_lpTaxOnBuy
MINIMUM_LIQUIDITY
...
```

### 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

**Location**

contract.sol#L679

### 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#L192

### 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#L725

### Description

There 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
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
<b>ERC20</b>	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	✓	
<b>IUniswapV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
<b>IUniswapV2Pair</b>	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-

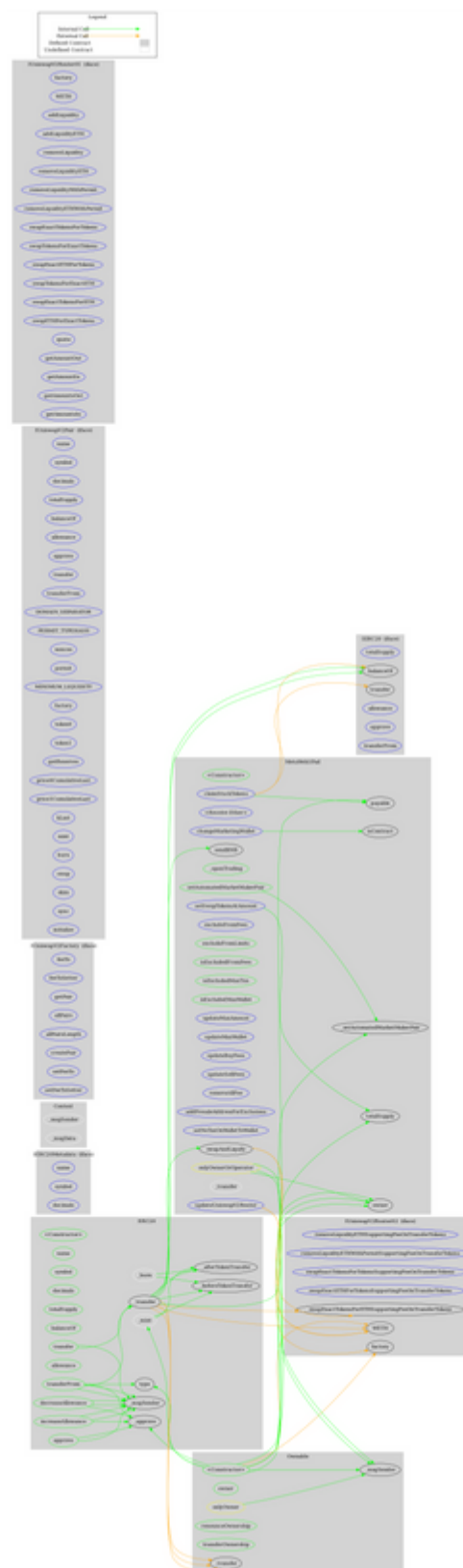
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
<b>IUniswapV2Router01</b>	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		-
<b>IUniswapV2Router02</b>	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>MetaWeb3Pad</b>	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	✓	
	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

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

# 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 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>