



Cyberscope

# Audit Report

## **BOSS DOGE**

March 2022

Type           BEP20

Network       BSC

Address       0x78Aa16db74f47288baE62208b4Adc4F8BDF3b0a8

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## Contract Review

<b>Contract Name</b>	BOSSDOGE
<b>Compiler Version</b>	v0.8.4+commit.c7e474f2
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0x78Aa16db74f47288baE62208b4Adc4F8BDF3b0a8">https://bscscan.com/token/0x78Aa16db74f47288baE62208b4Adc4F8BDF3b0a8</a>
<b>Symbol</b>	BDOGE
<b>Decimals</b>	9
<b>Total Supply</b>	1,000,000,000,000,000
<b>Source</b>	contract.sol
<b>Domain</b>	bossdoge.club

## Audit Updates

<b>Initial Audit</b>	8th March 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

## ULTW - Unlimited Liquidity to Team Wallet

<b>Criticality</b>	medium
<b>Location</b>	contract.sol#L290

### Description

The contract owner takes all the tokens from the contract periodically. These funds have been accumulated from fees collected from the contract. This will cause a price dump periodically as the tokens are being sold for BNB and then sent to the team's wallets.

```
function sendETHToFee(uint256 amount) private {  
    _developmentAddress.transfer(amount.div(2));  
    _marketingAddress.transfer(amount.div(2));  
}
```

### Recommendation

The contract could use some of the tokens for auto generating liquidity or holder's rewards. 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.

# Contract Diagnostics

● Critical    ● Medium    ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L05	Unused State Variable
●	L04	Conformance to Solidity Naming Conventions

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

contract.sol#L110,116,184,188,192,196,204,209,213,218 and 6 more

### Description

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

```
excludeMultipleAccountsFromFees  
toggleSwap  
setFee  
setNewMarketingAddress  
setNewDevAddress  
rescueForeignTokens  
transferFrom  
approve  
allowance  
...
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L93

### Description

Constant state variables should be declared constant to save gas.

```
_previousOwner
```

### Recommendation

Add the constant attribute to state variables that never change.



## L05 - Unused State Variable

**Criticality**

minor

**Location**

contract.sol#L93,127

### Description

There are segments that contain unused state variables.

```
_tOwned  
_previousOwner
```

### Recommendation

Remove unused state variables.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L34,299,305,312,300,398,132,145,146,147 and 2 more

### 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.

```
_decimals
_symbol
_name
_tTotal
_swapEnabled
_amount
_to
_tokenAddr
marketingAddressUpdated
...
```

### Recommendation

Follow the Solidity naming convention.

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

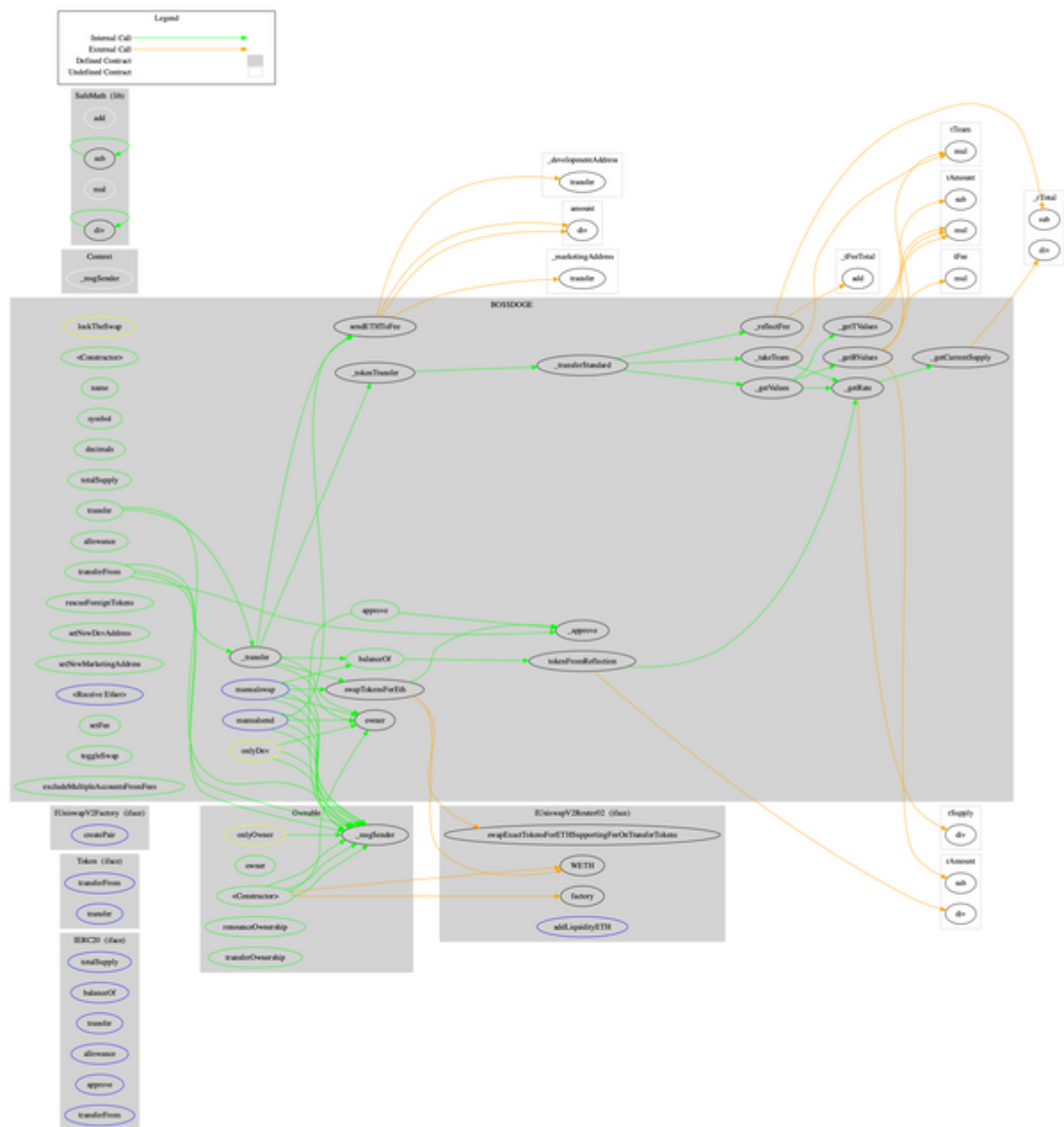
# Contract Functions

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>Token</b>	Interface			
	transferFrom	External	✓	-
	transfer	External	✓	-
<b>IUniswapV2Factory</b>	Interface			
	createPair	External	✓	-
<b>IUniswapV2Router02</b>	Interface			
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
<b>Context</b>	Implementation			
	_msgSender	Internal		
<b>SafeMath</b>	Library			

	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
<b>BOSSDOGE</b>	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	tokenFromReflection	Private		
	_approve	Private	✓	
	_transfer	Private	✓	
	swapTokensForEth	Private	✓	lockTheSwap
	sendETHToFee	Private	✓	
	_tokenTransfer	Private	✓	
	rescueForeignTokens	Public	✓	onlyDev
	setNewDevAddress	Public	✓	onlyDev
	setNewMarketingAddress	Public	✓	onlyDev
	_transferStandard	Private	✓	

	_takeTeam	Private	✓	
	_reflectFee	Private	✓	
	<Receive Ether>	External	Payable	-
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	manualswap	External	✓	-
	manualsend	External	✓	-
	setFee	Public	✓	onlyDev
	toggleSwap	Public	✓	onlyDev
	excludeMultipleAccountsFromFees	Public	✓	onlyOwner

# Contract Flow



## Domain Info

<b>Domain Name</b>	bossdoge.club
<b>Registry Domain ID</b>	DE40817DA9D354C29B7480283920D3C8B-GDREG
<b>Creation Date</b>	2022-03-07T19:07:06Z
<b>Updated Date</b>	2022-03-07T19:07:11Z
<b>Registry Expiry Date</b>	2023-03-07T19:07:06Z
<b>Registrar WHOIS Server</b>	whois.godaddy.com
<b>Registrar URL</b>	whois.godaddy.com
<b>Registrar</b>	GoDaddy.com, LLC
<b>Registrar IANA ID</b>	146

The domain has been created about 23 hours 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

BOSS DOGE claims to be a community-focused, DeFi cryptocurrency project. It has a friendly and growing community. The Smart Contract analysis reported no compiler error and only 1 medium threat issue. The contract Owner takes all the fees accumulated from the contract into the dev and marketing wallets. There is a max limit on changing fees.



## 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.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

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.

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



The Cyberscope team

<https://www.cyberscope.io>